

September 20, 2022

Ms. Jennifer Dorman
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee, WI 53212

Project # 40443A

Subject: **Third Groundwater Monitoring Event and Additional Site Investigation
Community Within the Corridor – West Block
3212 W. Center St., 2727 N. 32nd St., and 2758 N. 33rd St., Milwaukee, WI 53210
BRRTS #: 02-41-587376, FID #: 341333190**

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 third 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.

Additional Site Investigation

The additional site investigation activities included the following activities:

- Advancing one (1) soil probe on the exterior of the building to the west of WB-RTS-6, named WB-RTS-6B;
- Reinstalling WB-MW-2 which was damaged during construction, named WB-MW-2R. This well was damaged when a courtyard area was being redeveloped which broke off the stick-up protective pipe and cracked the PVC pipe.
- Reinstalling WB-MW-3 which was damaged during construction, named WB-MW-3R. This well was damaged during the winter by snow plowing which bent the stick-up protective pipe and cracked the PVC pipe.
- Converting WB-MW-4 from a stickup pipe to a flush-mount cover.
- Installing a monitoring well downgradient from the hot spot area within Building 7, named WB-MW-6.

The environmental drilling was performed by Soils & Engineering Services, Inc. located in Madison, Wisconsin utilizing a Geoprobe 7822 DT rig. The soil samples collected on July 20, 2022, were submitted to Eurofins - Test America, Inc., University Park, Illinois using proper chain-of-custody procedures. The soil parameters tested were Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs) and metals. The soil analytical testing results are presented as Attachment A and the results can be seen on Table 1. A survey of the elevations of the new wells and modification of MW-4 was performed by KSingh. Survey information is presented in Tables 2A and 2B.

Soil samples were collected from WB-RTS-6B at a depth of 1 to 2 feet which was recommended in a WDNR letter dated November 22, 2021. At this location the only VOC parameter methylene chloride (0.32 J B ug/kg) and PAH parameter chrysene (0.26 ug/kg) were exceeding the NR 720 protection to groundwater standards of 0.0026 ug/kg and 0.1442 ug/kg, respectively. There were no PCBs detected exceeding the laboratory's method detection limits, therefore, the extent of PCBs has been delineated to the west of WB-RTS-6. There were no metals detected above the NR 720 Residual Contaminant Levels (RCLs) or Background Threshold Values (BTV).

Monitoring wells, WB-MW-2 and WB-MW-3 were both damaged during construction as mentioned in the bullets above. WB-MW-3 was abandoned in accordance with NR 141 of the Wisconsin Administrative Code (WAC); however, WB-MW-2 could not be found due to the redevelopment landscaping of the courtyard area. The soil boring logs and the monitoring well abandonment form is presented in Attachment B and the monitoring well construction and development forms are presented as Attachment C.

Both WB-MW-2R (installed July 20, 2022) and WB-MW-3R (installed July 18, 2022) were blind drilled to 24 feet then logged thereafter. These monitoring wells were drilled adjacent to the original well locations. The soil conditions were, silty clay to clayey silts, gray, moist to wet, hard to very soft, with some to trace of gravel and a little to trace of sand. WB-MW-6 had fill (silty clay to clayey sand) from the surface to approximately 11 feet bgs. Then silty clay from 11 to 35 feet bgs with occasional silt seams, and some gravel and traces of sand.

A new well WB-MW-6 was installed on July 20, 2022, down-gradient of Building 7 within the eastern parking area of the west Block which was recommended in a WDNR letter dated November 22, 2021. Two soil samples were collected from WB-MW-6 at 1-2 feet and 10.5 to 12 feet bgs. Of the VOCs, only Methylene Chloride (MC) was detected above the NR 720 RCLs for the protection to groundwater pathway of 0.0026 ug/kg at 0.37 B ug/kg and 0.33 B ug/kg, respectively. MC is a laboratory contaminant and is not representable of field conditions (B = Compound was found in the blank and sample). No CVOCs were detected at this location thus delineating the CVOCs to the east of the building. There were no PAHs, PCBs, and metals detected that were above the NR 720 RCLs or BTVs.

The final grade at WB-MW-4 was lowered approximately three feet and the stickup well was too tall to sample easily, so it was converted to a flush-mount well at the new redevelopment landscaping grade.

Groundwater Sampling & Results

Groundwater sampling was conducted for five (5) of the six (6) monitoring wells on August 3, 2022 (WB-MW-1, WB-MW-2R, WB-MW-4, WB-MW-5 and WB-MW-6), for VOCs and PCBs. WB-MW-3R was dry; however, saturated conditions were encountered from approximately 28.5 to 35 feet below the grounds surface (bgs) within clayey silts (this well is recharging slowly or perhaps smearing of the fine-grained soils has occurred around the cylinder of the borehole). 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. Groundwater elevation data is summarized in Table 2A and 2B and the groundwater flow direction is presented on Figure 3. Groundwater flow direction appears to be to the southeast which was the same as the other groundwater sampling events. WB-MW-6 is a new well for the site which is downgradient of Building 7 (former source area of CVOCs).

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. Groundwater samples were analyzed for VOCs in accordance with EPA Method 8260B and PCBs in accordance with EPA Method 8082A. Chain of Custody records and laboratory groundwater quality analytical results are included in Attachment A. Groundwater quality test results are summarized in Table 3.

On the August 3, 2022 sampling event, NR 140 Enforcement Standards (ES) exceedances (0.20 ug/kg standard) included Vinyl Chloride (VC) in monitoring well WB-MW-4 (0.68 J ug/kg) which is downgradient from the source area in Building 7. The VC concentration 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. The remainder of VOC groundwater results were below the laboratory method detection limits or below the NR 140 Preventative Action Limits (PALs); therefore, the groundwater plume appears to be an isolated location at WB-MW-4 that is delineated. The groundwater results of the East Block (BRRTS #: 02-41-263675) also demonstrate that the groundwater plume is delineated with no detects of chlorinated organic compounds (CVOCs) within the southern half of the block. The remainder of groundwater results for PCBs were below the laboratory method detection limits.

Conclusions

In summary, based on three groundwater sampling events the CVOCs in the near-surface soils have not impacted the groundwater. WB-MW-4 detected VC at concentrations over the ES which will require additional monitoring. Soil samples did not detect CVOCs or PCBs; therefore, these contaminants are delineated within the former building footprint. Please contact us if you have any questions.

Sincerely,

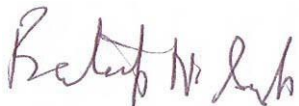
K. SINGH & ASSOCIATES, INC.



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:

Figure 1 Site Location Map

Figure 2 Locations of Soil Probes, Monitoring Wells, Sub-Slab Vapor and Sub-Slab Soil Samples

Table 1	Soil Quality Results
Table 2A	Groundwater Elevation Data
Table 2B	Groundwater Elevation Data
Table 3	Groundwater Quality Test Results
Attachment A	Soil Analytical Results
Attachment B	Soil Boring Logs and Abandonment Forms
Attachment C	Monitoring Well Construction and Development Forms
Attachment D	Groundwater Analytical Results

FIGURES

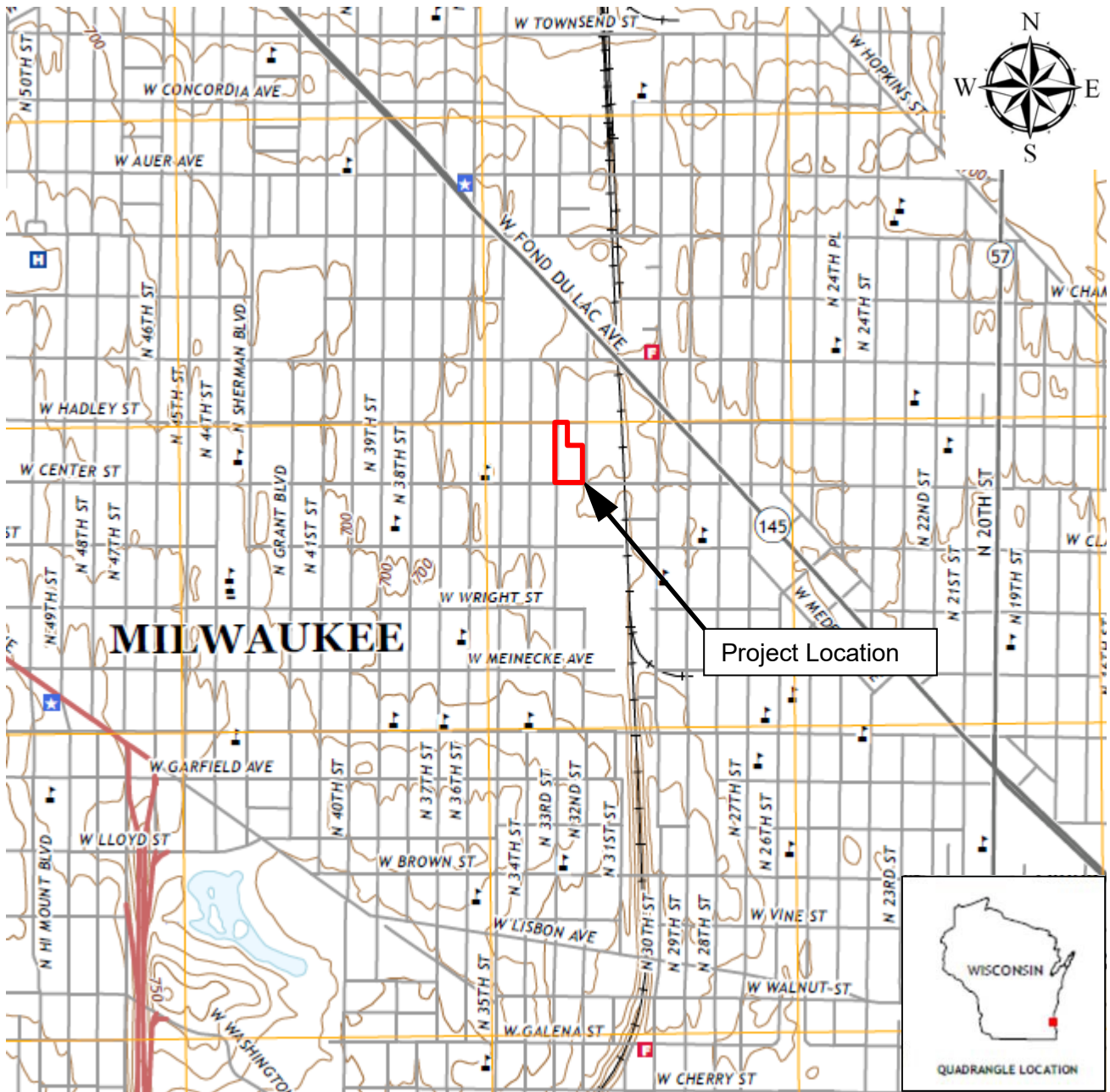
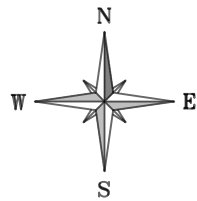


Figure 1 – Site Location Map

from 2018 Milwaukee Quadrangle, Wisconsin – Milwaukee County 7.5-minute series

Scale 1:24,000



APPROXIMATE UNDERGROUND STORAGE TANK LOCATION

FORMER SOURCE AREA: 2 METAL PAINT SPRAY BOOTHS

FORMER SOURCE AREA: PAINT STORAGE

N 33RD STREET

W HADLEY STREET

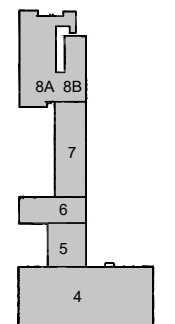
W CENTER STREET

FLOOR FINISH LEGEND

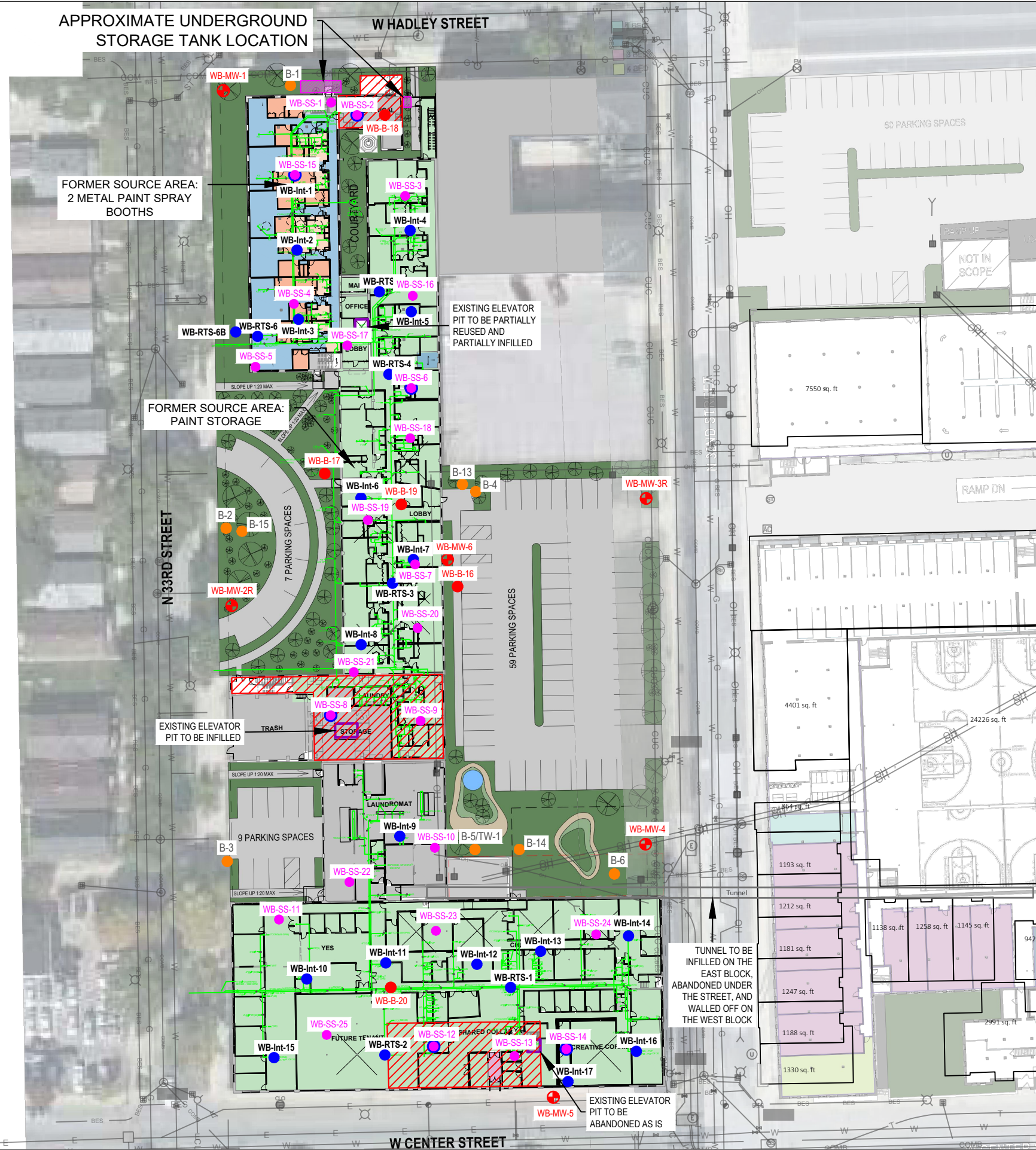
	CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
	CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
	EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
	LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
	MZ-1	EXISTING HISTORIC MOSAIC TILE - TO REMAIN IN PLACE & CLEAN
	PC-1	POLISHED CONCRETE
	SC-1	SEALED CONCRETE
	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

- Known Elevator Shaft
- Planned Underground Plumbing
- Underground Tunnel
- Basement Area(s)
- Sub-Slab Vapor Sampling Locations (25)
- Sub-Slab Soil Sampling Locations (28)
- Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
- Monitoring Well Locations (6)
- Soil Probe Locations (5)



KEY PLAN



- SAMPLE ID CODES:
- WB = WEST BLOCK
 - B = BORING
 - TW = TEMPORARY WELL
 - MW = MONITORING WELL
 - SS = SUB-SLAB
 - INT = INTERIOR
 - RTS = REPRESENTATIVE TRENCH SAMPLE

CONSULTANT

CONSULTANT

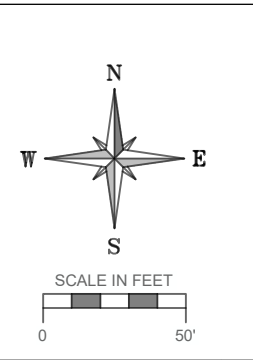
PROJECT TITLE: SITE INVESTIGATION REPORT
 3212 W. CENTER ST., 2727 N. 32ND ST., 2758 N. 33RD ST.
 COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
 MILWAUKEE, WI 53210
 PROJECT NUMBER: 40443

CLIENT:
 COMMUNITY WITHIN THE CORRIDOR LIMITED
 PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY: JDS DATE: 09/01/2022
 CHECKED BY: DP DATE: 09/01/2022

FIGURE 2



APPROXIMATE UNDERGROUND STORAGE TANK LOCATION

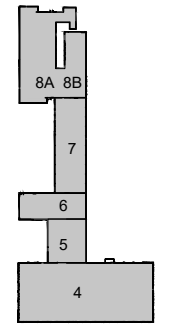
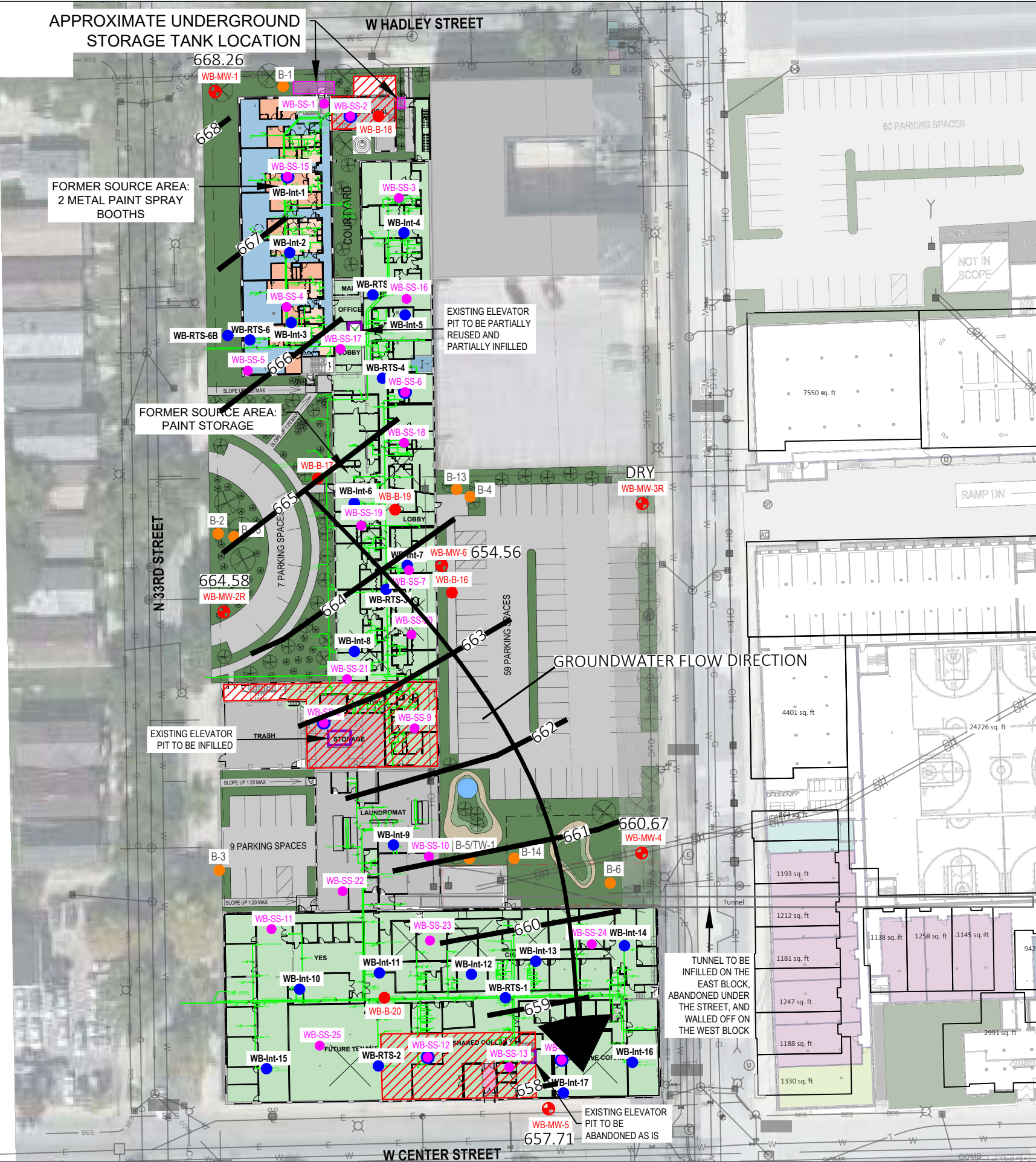
FORMER SOURCE AREA: 2 METAL PAINT SPRAY BOOTHS

FORMER SOURCE AREA: PAINT STORAGE

N 33RD STREET

W HADLEY STREET

W CENTER STREET



KEY PLAN

FLOOR FINISH LEGEND	
CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
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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**
- Known Elevator Shaft
 - Planned Underground Plumbing
 - Underground Tunnel
 - Basement Area(s)
 - Sub-Slab Vapor Sampling Locations (25)
 - Sub-Slab Soil Sampling Locations (28)
 - Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
 - Monitoring Well Locations (6)
 - Soil Probe Locations (5)
 - GROUNDWATER CONTOUR
 - GROUNDWATER FLOW DIRECTION ARROW

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

- SAMPLE ID CODES:**
- WB = WEST BLOCK
 - B = BORING
 - TW = TEMPORARY WELL
 - MW = MONITORING WELL
 - SS = SUB-SLAB
 - INT = INTERIOR
 - RTS = REPRESENTATIVE TRENCH SAMPLE

KSingh Engineers
Scientists
Consultants

3636 North 124th Street
Wauwatosa, WI 53222
262-821-1171

CONSULTANT

CONSULTANT

PROJECT TITLE: SITE INVESTIGATION REPORT
3212 W. CENTER ST., 2727 N. 32ND ST., 2758 N. 33RD ST.
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
MILWAUKEE, WI 53210
PROJECT NUMBER: 40443

CLIENT:
COMMUNITY WITHIN THE CORRIDOR LIMITED
PARTNERSHIP

REVISIONS	DATE	DESCRIPTION
DRAWN BY JDS	DATE 09/19/2022	
CHECKED BY DP	DATE 09/19/2022	
SHEET TITLE GROUNDWATER FLOW MAP (AUGUST 3, 2022)		

FIGURE 3

TABLES

TABLE 1
SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40443

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	WB-SS-14	WB-Int-1	WB-Int-2	WB-Int-3	WB-Int-4	WB-Int-5	WB-Int-6	WB-Int-7	WB-Int-8	WB-Int-9
							0-1	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
Depth (feet)							ML-CL	SP-CL	ML-CL	ML-CL	ML-CL	ML-CL	ML-CL	GW-SW	SP-CL	ML-CL
Soil Type							Unsaturated	Moist	Moist	Moist	Unsaturated	Moist	Unsaturated	Unsaturated	Unsaturated	Moist
Soil Conditions							Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior	Interior
Sampling Location							3/1/2021	4/5/2021	4/5/2021	4/5/2021	4/5/2021	4/5/2021	4/5/2021	4/5/2021	4/5/2021	4/2/2021
Sampling Date																
tert-Butylbenzene	mg/Kg	8260B	---	183	183	---	<0.024	<0.025	<0.025	<0.026	<0.025	<0.026	<0.025	<0.024	<0.024	<0.025
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	---	<0.022	<0.024	<0.023	<0.024	<0.023	<0.024	0.31	3.0	<0.022	<0.023
Toluene	mg/Kg	8260B	1.1072	818	818	---	0.32	0.028	<0.0092	<0.0097	<0.0092	<0.0096	<0.0091	<0.0090	<0.0088	<0.0093
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	---	<0.021	<0.022	<0.022	<0.023	<0.022	<0.023	<0.022	<0.021	<0.021	<0.022
trans-1,3-Dichloropropene	mg/Kg	8260B	---	1,510	1,510	---	<0.022	<0.023	<0.023	<0.024	<0.023	<0.024	<0.022	<0.022	<0.022	<0.023
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	---	<0.0098	<0.010	<0.010	<0.011	<0.010	<0.011	<0.010	0.021 J	<0.0098	<0.010
Trichlorofluoromethane	mg/Kg	8260B	---	1,230	1,230	---	<0.025	<0.027	<0.027	<0.028	<0.027	<0.028	<0.026	<0.026	<0.026	<0.027
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	---	<0.016	<0.017	<0.016	<0.017	<0.016	<0.017	<0.016	<0.016	<0.016	<0.017
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1212	---	0.73	<0.014	<0.014	<0.015	<0.014	<0.014	<0.014	<0.013	<0.013	<0.014
Polycyclic Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	mg/Kg	8270D	---	17.6	72.7	---	---	---	---	---	---	---	---	---	---	---
2-Methylnaphthalene	mg/Kg	8270D	---	239	3010	---	---	---	---	---	---	---	---	---	---	---
Acenaphthene	mg/Kg	8270D	---	3590	45,200	---	---	---	---	---	---	---	---	---	---	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	1.14	21	---	---	---	---	---	---	---	---	---	---	---
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11	---	---	---	---	---	---	---	---	---	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1	---	---	---	---	---	---	---	---	---	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	11.5	211	---	---	---	---	---	---	---	---	---	---	---
Chrysene	mg/Kg	8270D	0.1442	115	2110	---	---	---	---	---	---	---	---	---	---	---
Dibenz[a,h]anthracene	mg/Kg	8270D	---	0.115	2	---	---	---	---	---	---	---	---	---	---	---
Fluoranthene	mg/Kg	8270D	88.8778	2390	30,100	---	---	---	---	---	---	---	---	---	---	---
Fluorene	mg/Kg	8270D	14.8299	2390	30,100	---	---	---	---	---	---	---	---	---	---	---
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D	---	1.15	21.1	---	---	---	---	---	---	---	---	---	---	---
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1	---	---	---	---	---	---	---	---	---	---	---
Phenanthrene	mg/Kg	8270D	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pyrene	mg/Kg	8270D	54.5455	1790	22,600	---	---	---	---	---	---	---	---	---	---	---
Polychlorinated Biphenyls (PCBs)																
PCB-1016	mg/Kg	8082A	0.0094***	4.11	28	---	<0.12	<0.0067	<0.0065	<0.0068	<0.0066	<0.0067	<0.0064	<0.0065	<0.0064	<0.0066
PCB-1221	mg/Kg	8082A	0.0094***	0.213	0.883	---	<0.16	<0.0084	<0.0081	<0.0084	<0.0082	<0.0083	<0.0080	<0.0081	<0.0079	<0.0083
PCB-1232	mg/Kg	8082A	0.0094***	0.190	0.792	---	<0.15	<0.0083	<0.0080	<0.0083	<0.0081	<0.0082	<0.0079	<0.0080	<0.0079	<0.0082
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972	---	<0.12	<0.0062	<0.0061	<0.0063	<0.0061	<0.0062	<0.0060	<0.0061	<0.0059	<0.0062
PCB-1248	mg/Kg	8082A	0.0094***	0.236	0.975	---	<0.14	<0.0075	<0.0073	<0.0075	<0.0073	<0.0074	<0.0072	<0.0073	<0.0071	0.025
PCB-1254	mg/Kg	8082A	0.0094***	0.239	0.988	---	2.7	0.17	0.083	0.023	0.051	0.0084 J	<0.0039	<0.0040	<0.0039	<0.0040
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1.000	---	<0.17	<0.0093	<0.0091	<0.0094	<0.0091	<0.0093	<0.0089	<0.0091	<0.0089	<0.0092
RCRA Metals																
Arsenic	mg/Kg	6010B	0.584	0.677	3	8.3	---	---	---	---	---	---	---	---	---	---
Barium	mg/Kg	6010B	164.8	15,300	100,000	364	---	---	---	---	---	---	---	---	---	---
Cadmium	mg/Kg	6010B	0.752	71.1	985	1	---	---	---	---	---	---	---	---	---	---
Chromium	mg/Kg	6010B	360,000*	---	---	44	---	---	---	---	---	---	---	---	---	---
Lead	mg/Kg	6010B	27	400	800	51.6	---	---	---	---	---	---	---	---	---	---
Mercury	mg/Kg	7471A	0.208	3.13	3.13	---	---	---	---	---	---	---	---	---	---	---
Selenium	mg/Kg	6010B	0.52	391	5840	---	---	---	---	---	---	---	---	---	---	---
Silver	mg/Kg	6010B	0.8491	391	5840	---	---	---	---	---	---	---	---	---	---	---

Notes:

(1) From WDNR RCLs Worksheet dated December 2018

BOLD Italicized v values exceed Groundwater Protection

BOLD values exceed Non-Industrial Direct Contact

BOLD Underlined values exceed Industrial Direct-Contact RCLs

--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike (MS) and/or matrix spike duplicate (MSD) recovery exceeds control limits

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

B = Compound was found in the blank and sample

* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

** = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene; and 3 & 4 Methylphenol

*** = Combined established standard of PCBs

*+ = Laboratory Control Sample or Laboratory Control Sample Duplicate is outside acceptance limits, high biased

TABLE 1
SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40443

Sample							Trip Blank	Trip Blank
Depth (feet)							---	---
Soil Type	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	---	---
Soil Conditions							---	---
Sampling Location							---	---
Sampling Date							7/2/2021	7/15/2021
Physical Characteristics								
Percent Moisture							--	--
Percent Solids							--	--
Volatile Organic Compounds (VOCs)								
1,1,1,2-Tetrachloroethane	mg/Kg	8260B	0.0534	2.78	12.3	---	<0.023	<0.023
1,1,1-Trichloroethane	mg/Kg	8260B	0.1402	640	640	---	<0.019	<0.019
1,1,2,2-Tetrachloroethane	mg/Kg	8260B	0.0002	0.81	3.6	---	<0.020	<0.020
1,1,2-Trichloroethane	mg/Kg	8260B	0.0032	1.59	7.01	---	<0.018	<0.018
1,1-Dichloroethane	mg/Kg	8260B	0.4834	5.06	22.2	---	<0.021	<0.021
1,1-Dichloroethene	mg/Kg	8260B	0.005	320	1,190	---	<0.020	<0.020
1,1-Dichloropropene	mg/Kg	8260B	---	---	---	---	<0.015	<0.015
1,2,3-Trichlorobenzene	mg/Kg	8260B	---	62.6	934	---	<0.023	<0.023
1,2,3-Trichloropropane	mg/Kg	8260B	0.0519	0.005	0.109	---	<0.021	<0.021
1,2,4-Trichlorobenzene	mg/Kg	8260B	0.408	24	113	---	<0.017	<0.017
1,2,4-Trimethylbenzene	mg/Kg	8260B	1.3787**	219	219	---	<0.018	<0.018
1,2-Dibromo-3-Chloropropane	mg/Kg	8260B	0.0002	0.008	0.092	---	<0.10	<0.10
1,2-Dibromoethane	mg/Kg	8260B	0.0000282	0.05	0.221	---	<0.019	<0.019
1,2-Dichlorobenzene	mg/Kg	8260B	1.168	376	376	---	<0.017	<0.017
1,2-Dichloroethane	mg/Kg	8260B	0.0028	0.652	2.87	---	<0.020	<0.020
1,2-Dichloropropane	mg/Kg	8260B	0.0033	3.4	15	---	<0.021	<0.021
1,3,5-Trimethylbenzene	mg/Kg	8260B	1.3787**	182	182	---	<0.019	<0.019
1,3-Dichlorobenzene	mg/Kg	8260B	1.1528	297	297	---	<0.020	<0.020
1,3-Dichloropropane	mg/Kg	8260B	0.0003	2.37	10.6	---	<0.018	<0.018
1,4-Dichlorobenzene	mg/Kg	8260B	0.144	3.74	16.4	---	<0.018	<0.018
2,2-Dichloropropane	mg/Kg	8260B	---	191	191	---	<0.022	<0.022
2-Chlorotoluene	mg/Kg	8260B	---	907	907	---	<0.016	<0.016
4-Chlorotoluene	mg/Kg	8260B	---	253	253	---	<0.018	<0.018
Benzene	mg/Kg	8260B	0.0051	1.6	7.07	---	<0.0073	<0.0073
Bromobenzene	mg/Kg	8260B	---	342	679	---	<0.018	<0.018
Bromochloromethane	mg/Kg	8260B	---	216	906	---	<0.021	<0.021
Bromodichloromethane	mg/Kg	8260B	0.0003	0.418	1.83	---	<0.019	<0.019
Bromoform	mg/Kg	8260B	0.0023	25.4	113	---	<0.024	<0.024
Bromomethane	mg/Kg	8260B	0.0051	9.6	43	---	<0.040	<0.040
Carbon tetrachloride	mg/Kg	8260B	0.0039	0.916	4.03	---	<0.019	<0.019
Chlorobenzene	mg/Kg	8260B	---	370	761	---	<0.019	<0.019
Chloroethane	mg/Kg	8260B	0.2266	2,120	2,120	---	<0.025	<0.025
Chloroform	mg/Kg	8260B	0.0033	0.454	1.98	---	0.025 J	<0.019
Chloromethane	mg/Kg	8260B	0.0155	159	669	---	<0.016	<0.016
cis-1,2-Dichloroethene	mg/Kg	8260B	0.0412	156	2,340	---	<0.020	<0.020
cis-1,3-Dichloropropene	mg/Kg	8260B	0.0003	1,210	1,210	---	<0.021	<0.021
Dibromochloromethane	mg/Kg	8260B	0.032	8.28	38.9	---	<0.024	<0.024
Dibromomethane	mg/Kg	8260B	---	34	143	---	<0.014	<0.014
Dichlorodifluoromethane	mg/Kg	8260B	3.0863	126	530	---	<0.034	<0.034
Ethylbenzene	mg/Kg	8260B	1.57	8.02	35.4	---	<0.0092	<0.0092
Hexachlorobutadiene	mg/Kg	8260B	---	1.63	7.19	---	<0.022	<0.022
Isopropyl ether	mg/Kg	8260B	---	2,260	2,260	---	<0.014	<0.014
Isopropylbenzene	mg/Kg	8260B	---	268	268	---	<0.019	<0.019
Methyl tert-butyl ether	mg/Kg	8260B	0.027	63.8	282	---	<0.020	<0.020
Methylene Chloride	mg/Kg	8260B	0.0026	61.8	1,150	---	<0.082	<0.082
Naphthalene	mg/Kg	8260B	0.658182	5.52	24.10	---	<0.017	<0.017
n-Butylbenzene	mg/Kg	8260B	---	108	108	---	<0.019	<0.019
N-Propylbenzene	mg/Kg	8260B	---	264	264	---	<0.021	<0.021
p-Isopropyltoluene	mg/Kg	8260B	---	162	162	---	<0.018	<0.018
sec-Butylbenzene	mg/Kg	8260B	---	145	145	---	<0.020	<0.020
Styrene	mg/Kg	8260B	0.22	867	867	---	<0.019	<0.019

TABLE 1
SOIL QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40443

Sample	Units	Method	NR 720 RCLs for GW Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value	Trip Blank	Trip Blank
Depth (feet)							---	---
Soil Type							---	---
Soil Conditions							---	---
Sampling Location							---	---
Sampling Date							7/2/2021	7/15/2021
tert-Butylbenzene	mg/Kg	8260B	---	183	183	---	<0.020	<0.020
Tetrachloroethene	mg/Kg	8260B	0.0045	33	145	---	<0.019	<0.019
Toluene	mg/Kg	8260B	1.1072	818	818	---	0.011 J	<0.0074
trans-1,2-Dichloroethene	mg/Kg	8260B	0.0626	1560	1850	---	<0.018	<0.018
trans-1,3-Dichloropropene	mg/Kg	8260B	---	1,510	1,510	---	<0.018	<0.018
Trichloroethene	mg/Kg	8260B	0.0036	1.3	8.41	---	<0.0082	<0.0082
Trichlorofluoromethane	mg/Kg	8260B	---	1,230	1,230	---	<0.021	<0.021
Vinyl chloride	mg/Kg	8260B	0.0001	0.067	2.08	---	<0.013	<0.013
Xylenes, Total	mg/Kg	8260B	3.96	1,212	1,212	---	<0.011	<0.011
Polycyclic Aromatic Hydrocarbons (PAHs)								
1-Methylnaphthalene	mg/Kg	8270D	---	17.6	72.7	---	---	---
2-Methylnaphthalene	mg/Kg	8270D	---	239	3010	---	---	---
Acenaphthene	mg/Kg	8270D	---	3590	45,200	---	---	---
Acenaphthylene	mg/Kg	8270D	---	---	---	---	---	---
Anthracene	mg/Kg	8270D	196.9492	17,900	100,000	---	---	---
Benzo[a]anthracene	mg/Kg	8270D	---	1.14	21	---	---	---
Benzo[a]pyrene	mg/Kg	8270D	0.47	0.115	2.11	---	---	---
Benzo[b]fluoranthene	mg/Kg	8270D	0.4781	1.15	21.1	---	---	---
Benzo[g,h,i]perylene	mg/Kg	8270D	---	---	---	---	---	---
Benzo[k]fluoranthene	mg/Kg	8270D	---	11.5	211	---	---	---
Chrysene	mg/Kg	8270D	0.1442	115	2110	---	---	---
Dibenz[a,h]anthracene	mg/Kg	8270D	---	0.115	2	---	---	---
Fluoranthene	mg/Kg	8270D	88.8778	2390	30,100	---	---	---
Fluorene	mg/Kg	8270D	14.8299	2390	30,100	---	---	---
Indeno[1,2,3-cd]pyrene	mg/Kg	8270D	---	1.15	21.1	---	---	---
Naphthalene	mg/Kg	8270D	0.6582	5.52	24.1	---	---	---
Phenanthrene	mg/Kg	8270D	---	---	---	---	---	---
Pyrene	mg/Kg	8270D	54.5455	1790	22,600	---	---	---
Polychlorinated Biphenyls (PCBs)								
PCB-1016	mg/Kg	8082A	0.0094***	4.11	28	---	---	---
PCB-1221	mg/Kg	8082A	0.0094***	0.213	0.883	---	---	---
PCB-1232	mg/Kg	8082A	0.0094***	0.190	0.792	---	---	---
PCB-1242	mg/Kg	8082A	0.0094***	0.235	0.972	---	---	---
PCB-1248	mg/Kg	8082A	0.0094***	0.236	0.975	---	---	---
PCB-1254	mg/Kg	8082A	0.0094***	0.239	0.988	---	---	---
PCB-1260	mg/Kg	8082A	0.0094***	0.243	1.000	---	---	---
RCRA Metals								
Arsenic	mg/Kg	6010B	0.584	0.677	3	8.3	---	---
Barium	mg/Kg	6010B	164.8	15,300	100,000	364	---	---
Cadmium	mg/Kg	6010B	0.752	71.1	985	1	---	---
Chromium	mg/Kg	6010B	360,000*	---	---	44	---	---
Lead	mg/Kg	6010B	27	400	800	51.6	---	---
Mercury	mg/Kg	7471A	0.208	3.13	3.13	---	---	---
Selenium	mg/Kg	6010B	0.52	391	5840	---	---	---
Silver	mg/Kg	6010B	0.8491	391	5840	---	---	---

Notes:

(1) From WDNR RCLs Worksheet dated December 2018

BOLD Italicized values exceed Groundwater Protection

BOLD values exceed Non-Industrial Direct Contact

BOLD Underlined values exceed Industrial Direct-Contact RCLs

--- = Not analyzed / No established standard

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

F1 = Matrix spike (MS) and/or matrix spike duplicate (MSD) recovery exceeds control limits

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

B = Compound was found in the blank and sample

* = Laboratory control sample and/or laboratory control sample duplicate is outside acceptance limits

** = Combined established standard of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene; and 3 & 4 Methylphenol

*** = Combined established standard of PCBs

*+ = Laboratory Control Sample or Laboratory Control Sample Duplicate is outside acceptance limits, high biased

TABLE 2A
GROUNDWATER ELEVATION DATA
COMMUNITY WITHIN THE CORRIDOR
MILWAUKEE, WI
PROJECT NUMBER 40443A

Well ID	Units	WB-MW-1		WB-MW-2		WB-MW-3		WB-MW-4		WB-MW-5	
Ground Elevation	Feet	682.57		686.17		685.83		684.89		680.03	
TOC Elevation	Feet	685.36		689.16		688.97		687.94		679.21	
TOS Elevation	Feet	673.32		675.64		677.23		674.08		664.38	
BOS Elevation	Feet	658.32		660.64		662.23		659.08		654.38	
Screen Height	Feet	15		15		15		15		10	
DATE	DTW (TOC)	GROUNDWATER ELEVATION	DTW (TOC)	GROUNDWATER ELEVATION	DTW (TOC)	GROUNDWATER ELEVATION	DTW (TOC)	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	
5/18/2021	17.58	667.78	23.42	665.74	DRY	---	27.51	660.43	---	---	
6/10/2021	17.28	668.08	23.25	665.91	DRY	---	27.15	660.79	---	---	
6/22/2021	17.22	668.14	23.53	665.63	DRY	---	27.14	660.80	---	---	
6/30/2021	15.44	669.92	23.59	665.57	DRY	---	27.13	660.81	---	---	
7/20/2021	17.33	668.03	22.95	666.21	DRY	---	27.00	660.94	18.55	660.66	
7/29/2021	17.41	667.95	23.76	665.40	DRY	---	27.00	660.94	18.67	660.54	
8/19/2021	17.31	668.05	23.87	665.29	DRY	---	26.91	661.03	18.23	660.98	
10/6/2021	17.62	667.74	24.70	664.46	DRY	---	27.40	660.54	18.20	661.01	
8/3/2022	17.10	668.26	---	---	---	---	---	---	21.50	657.71	

ATTACHMENTS

ATTACHMENT A

Soil Analytical Results

ANALYTICAL REPORT

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

Laboratory Job ID: 500-219774-1
Client Project/Site: CWC - 40443A

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

Attn: Mr. Robert Reineke



Authorized for release by:
8/9/2022 8:01:00 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.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: CWC - 40443A

Job ID: 500-219774-1

Job ID: 500-219774-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-219774-1

Comments

No additional comments.

Receipt

The samples were received on 7/22/2022 10:15 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 2.4° C.

GC/MS VOA

Methods 8260B, 8260D: Methylene chloride was detected in the following items: WB-RTS-6B, 1-2' (500-219774-1), WB-MW-6, 1-2' (500-219774-2), WB-MW-6, 10.5-12' (500-219774-3) and Trip Blank (500-219774-4). 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) recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. WB-RTS-6B, 1-2' (500-219774-1), WB-MW-6, 1-2' (500-219774-2), WB-MW-6, 10.5-12' (500-219774-3) and Trip Blank (500-219774-4)

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: The method blank for preparation batch 500-668233 and analytical batch 500-668959 contained Benzo[a]anthracene, Fluoranthene, Phenanthrene and Pyrene 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.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: WB-RTS-6B, 1-2' (500-219774-1). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8082A: Surrogate recovery for the following samples were outside the upper control limit: WB-RTS-6B, 1-2' (500-219774-1) and WB-MW-6, 1-2' (500-219774-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following samples were outside control limits: (LCS 500-667844/3-A) and (MB 500-667844/1-A). The other surrogate was within limits; 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 - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-RTS-6B, 1-2'

Lab Sample ID: 500-219774-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.32	J B	0.34	0.11	mg/Kg	50	✳	8260B	Total/NA
Anthracene	0.11	J	0.19	0.032	mg/Kg	5	✳	8270D	Total/NA
Benzo[a]anthracene	0.23	B	0.19	0.026	mg/Kg	5	✳	8270D	Total/NA
Benzo[a]pyrene	0.32		0.19	0.037	mg/Kg	5	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.35		0.19	0.041	mg/Kg	5	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.11	J	0.19	0.062	mg/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.15	J	0.19	0.056	mg/Kg	5	✳	8270D	Total/NA
Chrysene	0.26		0.19	0.052	mg/Kg	5	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.041	J	0.19	0.037	mg/Kg	5	✳	8270D	Total/NA
Fluoranthene	0.55	B	0.19	0.035	mg/Kg	5	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.14	J	0.19	0.050	mg/Kg	5	✳	8270D	Total/NA
Phenanthrene	0.22	B	0.19	0.027	mg/Kg	5	✳	8270D	Total/NA
Pyrene	0.42	B	0.19	0.038	mg/Kg	5	✳	8270D	Total/NA
Arsenic	5.0		1.1	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	87		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Chromium	16		1.1	0.55	mg/Kg	1	✳	6010B	Total/NA
Lead	32		0.55	0.26	mg/Kg	1	✳	6010B	Total/NA
Silver	0.21	J	0.55	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.029		0.019	0.0063	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: WB-MW-6, 1-2'

Lab Sample ID: 500-219774-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.37	B	0.33	0.11	mg/Kg	50	✳	8260B	Total/NA
Acenaphthene	0.0085	J	0.037	0.0067	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.037		0.037	0.0062	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.084	B	0.037	0.0050	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.13		0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.15		0.037	0.0080	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.047		0.037	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.058		0.037	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.10		0.037	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.037	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.21	B	0.037	0.0069	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.010	J	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.059		0.037	0.0097	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.095	B	0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.16	B	0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.6		1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Barium	54		1.1	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.046	J B	0.21	0.038	mg/Kg	1	✳	6010B	Total/NA
Chromium	15		1.1	0.52	mg/Kg	1	✳	6010B	Total/NA
Lead	16		0.53	0.24	mg/Kg	1	✳	6010B	Total/NA
Silver	0.25	J	0.53	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.029		0.018	0.0061	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: WB-MW-6, 10.5-12'

Lab Sample ID: 500-219774-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.33	B	0.30	0.099	mg/Kg	50	✳	8260B	Total/NA
Anthracene	0.012	J	0.036	0.0061	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.022	J	0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 10.5-12' (Continued)

Lab Sample ID: 500-219774-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.015	J B	0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0092	J B	0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.9		1.0	0.35	mg/Kg	1	✳	6010B	Total/NA
Barium	26		1.0	0.12	mg/Kg	1	✳	6010B	Total/NA
Chromium	9.8		1.0	0.50	mg/Kg	1	✳	6010B	Total/NA
Lead	6.9		0.50	0.23	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.012	J	0.017	0.0057	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-219774-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.26	B	0.25	0.082	mg/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EETNC CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EETNC CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EETNC CHI
6010B	Metals (ICP)	SW846	EETNC CHI
7471A	Mercury (CVAA)	SW846	EETNC CHI
Moisture	Percent Moisture	EPA	EETNC CHI
3050B	Preparation, Metals	SW846	EETNC CHI
3541	Automated Soxhlet Extraction	SW846	EETNC CHI
5035	Closed System Purge and Trap	SW846	EETNC CHI
7471A	Preparation, Mercury	SW846	EETNC CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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



Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-219774-1	WB-RTS-6B, 1-2'	Solid	07/20/22 09:00	07/22/22 10:15
500-219774-2	WB-MW-6, 1-2'	Solid	07/20/22 11:55	07/22/22 10:15
500-219774-3	WB-MW-6, 10.5-12'	Solid	07/20/22 12:15	07/22/22 10:15
500-219774-4	Trip Blank	Solid	07/20/22 00:00	07/22/22 10:15

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-RTS-6B, 1-2'

Lab Sample ID: 500-219774-1

Date Collected: 07/20/22 09:00

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2-Dibromo-3-Chloropropane	<0.14		0.34	0.14	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2-Dibromoethane (EDB)	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Benzene	<0.0099		0.017	0.0099	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Dichlorobromomethane	<0.025		0.068	0.025	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Bromoform	<0.033		0.068	0.033	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Methylene Chloride	0.32	J B	0.34	0.11	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	✱	07/20/22 09:00	08/01/22 11:08	50

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-RTS-6B, 1-2'

Lab Sample ID: 500-219774-1

Date Collected: 07/20/22 09:00

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Styrene	<0.026		0.068	0.026	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Toluene	<0.010		0.017	0.010	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✳	07/20/22 09:00	08/01/22 11:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126	07/20/22 09:00	08/01/22 11:08	50
4-Bromofluorobenzene (Surr)	96		72 - 124	07/20/22 09:00	08/01/22 11:08	50
Dibromofluoromethane (Surr)	100		75 - 120	07/20/22 09:00	08/01/22 11:08	50
Toluene-d8 (Surr)	95		75 - 120	07/20/22 09:00	08/01/22 11:08	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.047		0.39	0.047	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
2-Methylnaphthalene	<0.035		0.39	0.035	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Acenaphthene	<0.034		0.19	0.034	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Acenaphthylene	<0.025		0.19	0.025	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Anthracene	0.11	J	0.19	0.032	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Benzo[a]anthracene	0.23	B	0.19	0.026	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Benzo[a]pyrene	0.32		0.19	0.037	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Benzo[b]fluoranthene	0.35		0.19	0.041	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Benzo[g,h,i]perylene	0.11	J	0.19	0.062	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Benzo[k]fluoranthene	0.15	J	0.19	0.056	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Chrysene	0.26		0.19	0.052	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Dibenz(a,h)anthracene	0.041	J	0.19	0.037	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Fluoranthene	0.55	B	0.19	0.035	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Fluorene	<0.027		0.19	0.027	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Indeno[1,2,3-cd]pyrene	0.14	J	0.19	0.050	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Naphthalene	<0.029		0.19	0.029	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Phenanthrene	0.22	B	0.19	0.027	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5
Pyrene	0.42	B	0.19	0.038	mg/Kg	✳	08/03/22 07:42	08/05/22 16:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		43 - 145	08/03/22 07:42	08/05/22 16:34	5
Nitrobenzene-d5 (Surr)	73		37 - 147	08/03/22 07:42	08/05/22 16:34	5
Terphenyl-d14 (Surr)	103		42 - 157	08/03/22 07:42	08/05/22 16:34	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.019	0.0076	mg/Kg	✳	08/01/22 07:56	08/02/22 11:06	1
PCB-1221	<0.0076		0.019	0.0076	mg/Kg	✳	08/01/22 07:56	08/02/22 11:06	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✳	08/01/22 07:56	08/02/22 11:06	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✳	08/01/22 07:56	08/02/22 11:06	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-RTS-6B, 1-2'

Lab Sample ID: 500-219774-1

Date Collected: 07/20/22 09:00

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	☼	08/01/22 07:56	08/02/22 11:06	1
PCB-1254	<0.0066		0.019	0.0066	mg/Kg	☼	08/01/22 07:56	08/02/22 11:06	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	☼	08/01/22 07:56	08/02/22 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		49 - 129				08/01/22 07:56	08/02/22 11:06	1
DCB Decachlorobiphenyl	136	S1+	37 - 121				08/01/22 07:56	08/02/22 11:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		1.1	0.38	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Barium	87		1.1	0.13	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Cadmium	<0.040		0.22	0.040	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Chromium	16		1.1	0.55	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Lead	32		0.55	0.26	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1
Silver	0.21	J	0.55	0.14	mg/Kg	☼	07/26/22 09:33	07/27/22 18:08	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0063	mg/Kg	☼	08/02/22 13:40	08/03/22 08:09	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 1-2'

Lab Sample ID: 500-219774-2

Date Collected: 07/20/22 11:55

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.030		0.066	0.030	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1,1-Trichloroethane	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1,2,2-Tetrachloroethane	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1,2-Trichloroethane	<0.023		0.066	0.023	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1-Dichloroethane	<0.027		0.066	0.027	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1-Dichloroethene	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,1-Dichloropropene	<0.020		0.066	0.020	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2,3-Trichlorobenzene	<0.030		0.066	0.030	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2,4-Trichlorobenzene	<0.023		0.066	0.023	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2,4-Trimethylbenzene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2-Dibromo-3-Chloropropane	<0.13		0.33	0.13	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2-Dibromoethane (EDB)	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2-Dichlorobenzene	<0.022		0.066	0.022	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2-Dichloroethane	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,2-Dichloropropane	<0.028		0.066	0.028	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,3,5-Trimethylbenzene	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,3-Dichlorobenzene	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,3-Dichloropropane	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
1,4-Dichlorobenzene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
2,2-Dichloropropane	<0.029		0.066	0.029	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
2-Chlorotoluene	<0.021		0.066	0.021	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
4-Chlorotoluene	<0.023		0.066	0.023	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Benzene	<0.0096		0.017	0.0096	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Bromobenzene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Bromochloromethane	<0.028		0.066	0.028	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Dichlorobromomethane	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Bromoform	<0.032		0.066	0.032	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Bromomethane	<0.053		0.20	0.053	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Carbon tetrachloride	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Chlorobenzene	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Chloroethane	<0.033		0.066	0.033	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Chloroform	<0.024		0.13	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Chloromethane	<0.021		0.066	0.021	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
cis-1,2-Dichloroethene	<0.027		0.066	0.027	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
cis-1,3-Dichloropropene	<0.027		0.066	0.027	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Dibromochloromethane	<0.032		0.066	0.032	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Dibromomethane	<0.018		0.066	0.018	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Dichlorodifluoromethane	<0.044		0.20	0.044	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Hexachlorobutadiene	<0.029		0.066	0.029	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Isopropyl ether	<0.018		0.066	0.018	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Isopropylbenzene	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Methyl tert-butyl ether	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Methylene Chloride	0.37	B	0.33	0.11	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Naphthalene	<0.022		0.066	0.022	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
n-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
N-Propylbenzene	<0.027		0.066	0.027	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
p-Isopropyltoluene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 1-2'

Lab Sample ID: 500-219774-2

Date Collected: 07/20/22 11:55

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Styrene	<0.025		0.066	0.025	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
tert-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Tetrachloroethene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Toluene	<0.0097		0.017	0.0097	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
trans-1,2-Dichloroethene	<0.023		0.066	0.023	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
trans-1,3-Dichloropropene	<0.024		0.066	0.024	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Trichloroethene	<0.011		0.033	0.011	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Trichlorofluoromethane	<0.028		0.066	0.028	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Vinyl chloride	<0.017		0.066	0.017	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50
Xylenes, Total	<0.015		0.033	0.015	mg/Kg	✳	07/20/22 11:55	08/01/22 11:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126	07/20/22 11:55	08/01/22 11:32	50
4-Bromofluorobenzene (Surr)	96		72 - 124	07/20/22 11:55	08/01/22 11:32	50
Dibromofluoromethane (Surr)	102		75 - 120	07/20/22 11:55	08/01/22 11:32	50
Toluene-d8 (Surr)	95		75 - 120	07/20/22 11:55	08/01/22 11:32	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.0091		0.075	0.0091	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Acenaphthene	0.0085	J	0.037	0.0067	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Anthracene	0.037		0.037	0.0062	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Benzo[a]anthracene	0.084	B	0.037	0.0050	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Benzo[a]pyrene	0.13		0.037	0.0072	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Benzo[b]fluoranthene	0.15		0.037	0.0080	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Benzo[g,h,i]perylene	0.047		0.037	0.012	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Benzo[k]fluoranthene	0.058		0.037	0.011	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Chrysene	0.10		0.037	0.010	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Dibenz(a,h)anthracene	0.017	J	0.037	0.0072	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Fluoranthene	0.21	B	0.037	0.0069	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Fluorene	0.010	J	0.037	0.0052	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Indeno[1,2,3-cd]pyrene	0.059		0.037	0.0097	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Phenanthrene	0.095	B	0.037	0.0052	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1
Pyrene	0.16	B	0.037	0.0074	mg/Kg	✳	08/03/22 07:42	08/05/22 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		43 - 145	08/03/22 07:42	08/05/22 16:58	1
Nitrobenzene-d5 (Surr)	79		37 - 147	08/03/22 07:42	08/05/22 16:58	1
Terphenyl-d14 (Surr)	113		42 - 157	08/03/22 07:42	08/05/22 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0075		0.019	0.0075	mg/Kg	✳	08/01/22 07:56	08/02/22 11:21	1
PCB-1221	<0.0075		0.019	0.0075	mg/Kg	✳	08/01/22 07:56	08/02/22 11:21	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✳	08/01/22 07:56	08/02/22 11:21	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	✳	08/01/22 07:56	08/02/22 11:21	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 1-2'

Lab Sample ID: 500-219774-2

Date Collected: 07/20/22 11:55

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0091		0.019	0.0091	mg/Kg	☼	08/01/22 07:56	08/02/22 11:21	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	☼	08/01/22 07:56	08/02/22 11:21	1
PCB-1260	<0.0072		0.019	0.0072	mg/Kg	☼	08/01/22 07:56	08/02/22 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		49 - 129				08/01/22 07:56	08/02/22 11:21	1
DCB Decachlorobiphenyl	126	S1+	37 - 121				08/01/22 07:56	08/02/22 11:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.1	0.36	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Barium	54		1.1	0.12	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Cadmium	0.046	J B	0.21	0.038	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Chromium	15		1.1	0.52	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Lead	16		0.53	0.24	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1
Silver	0.25	J	0.53	0.14	mg/Kg	☼	07/26/22 09:33	07/27/22 18:11	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0061	mg/Kg	☼	08/02/22 13:40	08/03/22 08:11	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 10.5-12'

Lab Sample ID: 500-219774-3

Date Collected: 07/20/22 12:15

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.028		0.060	0.028	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1,2,2-Tetrachloroethane	<0.024		0.060	0.024	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1-Dichloroethane	<0.025		0.060	0.025	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1-Dichloroethene	<0.024		0.060	0.024	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,1-Dichloropropene	<0.018		0.060	0.018	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2,3-Trichlorobenzene	<0.028		0.060	0.028	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2,4-Trichlorobenzene	<0.021		0.060	0.021	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2,4-Trimethylbenzene	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2-Dibromo-3-Chloropropane	<0.12		0.30	0.12	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2-Dibromoethane (EDB)	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2-Dichlorobenzene	<0.020		0.060	0.020	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2-Dichloroethane	<0.024		0.060	0.024	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,2-Dichloropropane	<0.026		0.060	0.026	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,3-Dichlorobenzene	<0.024		0.060	0.024	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,3-Dichloropropane	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
1,4-Dichlorobenzene	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
2,2-Dichloropropane	<0.027		0.060	0.027	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
2-Chlorotoluene	<0.019		0.060	0.019	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
4-Chlorotoluene	<0.021		0.060	0.021	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Benzene	<0.0088		0.015	0.0088	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Bromobenzene	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Bromochloromethane	<0.026		0.060	0.026	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Dichlorobromomethane	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Bromoform	<0.029		0.060	0.029	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Bromomethane	<0.048		0.18	0.048	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Carbon tetrachloride	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Chlorobenzene	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Chloroethane	<0.030		0.060	0.030	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Chloroform	<0.022		0.12	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Chloromethane	<0.019		0.060	0.019	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
cis-1,2-Dichloroethene	<0.025		0.060	0.025	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
cis-1,3-Dichloropropene	<0.025		0.060	0.025	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Dibromochloromethane	<0.030		0.060	0.030	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Dibromomethane	<0.016		0.060	0.016	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Dichlorodifluoromethane	<0.041		0.18	0.041	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Hexachlorobutadiene	<0.027		0.060	0.027	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Isopropyl ether	<0.017		0.060	0.017	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Isopropylbenzene	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Methyl tert-butyl ether	<0.024		0.060	0.024	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Methylene Chloride	0.33	B	0.30	0.099	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
Naphthalene	<0.020		0.060	0.020	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
n-Butylbenzene	<0.023		0.060	0.023	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
N-Propylbenzene	<0.025		0.060	0.025	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50
p-Isopropyltoluene	<0.022		0.060	0.022	mg/Kg	✱	07/20/22 12:15	08/01/22 11:56	50

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 10.5-12'

Lab Sample ID: 500-219774-3

Date Collected: 07/20/22 12:15

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.024		0.060	0.024	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Styrene	<0.023		0.060	0.023	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
tert-Butylbenzene	<0.024		0.060	0.024	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Tetrachloroethene	<0.022		0.060	0.022	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Toluene	<0.0089		0.015	0.0089	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Trichloroethene	<0.0099		0.030	0.0099	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Vinyl chloride	<0.016		0.060	0.016	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	✳	07/20/22 12:15	08/01/22 11:56	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				07/20/22 12:15	08/01/22 11:56	50
4-Bromofluorobenzene (Surr)	95		72 - 124				07/20/22 12:15	08/01/22 11:56	50
Dibromofluoromethane (Surr)	101		75 - 120				07/20/22 12:15	08/01/22 11:56	50
Toluene-d8 (Surr)	94		75 - 120				07/20/22 12:15	08/01/22 11:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.0089		0.073	0.0089	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Anthracene	0.012	J	0.036	0.0061	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Benzo[a]anthracene	<0.0049		0.036	0.0049	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Benzo[a]pyrene	<0.0071		0.036	0.0071	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Benzo[b]fluoranthene	<0.0079		0.036	0.0079	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Chrysene	0.022	J	0.036	0.0099	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Fluoranthene	<0.0068		0.036	0.0068	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Phenanthrene	0.015	J B	0.036	0.0051	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Pyrene	0.0092	J B	0.036	0.0072	mg/Kg	✳	08/03/22 07:42	08/05/22 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		43 - 145				08/03/22 07:42	08/05/22 17:22	1
Nitrobenzene-d5 (Surr)	76		37 - 147				08/03/22 07:42	08/05/22 17:22	1
Terphenyl-d14 (Surr)	113		42 - 157				08/03/22 07:42	08/05/22 17:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0070		0.018	0.0070	mg/Kg	✳	08/01/22 07:56	08/02/22 11:36	1
PCB-1221	<0.0070		0.018	0.0070	mg/Kg	✳	08/01/22 07:56	08/02/22 11:36	1
PCB-1232	<0.0049		0.018	0.0049	mg/Kg	✳	08/01/22 07:56	08/02/22 11:36	1
PCB-1242	<0.0070		0.018	0.0070	mg/Kg	✳	08/01/22 07:56	08/02/22 11:36	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 10.5-12'

Lab Sample ID: 500-219774-3

Date Collected: 07/20/22 12:15

Matrix: Solid

Date Received: 07/22/22 10:15

Percent Solids: 90.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0085		0.018	0.0085	mg/Kg	☼	08/01/22 07:56	08/02/22 11:36	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	☼	08/01/22 07:56	08/02/22 11:36	1
PCB-1260	<0.0068		0.018	0.0068	mg/Kg	☼	08/01/22 07:56	08/02/22 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129				08/01/22 07:56	08/02/22 11:36	1
DCB Decachlorobiphenyl	117		37 - 121				08/01/22 07:56	08/02/22 11:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		1.0	0.35	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Barium	26		1.0	0.12	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Cadmium	<0.036		0.20	0.036	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Chromium	9.8		1.0	0.50	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Lead	6.9		0.50	0.23	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	07/26/22 09:33	07/27/22 18:14	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.017	0.0057	mg/Kg	☼	08/02/22 13:40	08/03/22 08:13	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-219774-4

Date Collected: 07/20/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2-Dibromoethane (EDB)	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Benzene	<0.0073		0.013	0.0073	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Dichlorobromomethane	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Bromoform	<0.024		0.050	0.024	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Methylene Chloride	0.26	B	0.25	0.082	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-219774-4

Date Collected: 07/20/22 00:00

Matrix: Solid

Date Received: 07/22/22 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Styrene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		07/20/22 00:00	08/01/22 12:21	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126				07/20/22 00:00	08/01/22 12:21	50
4-Bromofluorobenzene (Surr)	95		72 - 124				07/20/22 00:00	08/01/22 12:21	50
Dibromofluoromethane (Surr)	103		75 - 120				07/20/22 00:00	08/01/22 12:21	50
Toluene-d8 (Surr)	95		75 - 120				07/20/22 00:00	08/01/22 12:21	50

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

GC/MS Semi VOA

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.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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: CWC - 40443A

Job ID: 500-219774-1

GC/MS VOA

Prep Batch: 667552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	5035	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	5035	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	5035	
500-219774-4	Trip Blank	Total/NA	Solid	5035	
LB3 500-667552/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-667552/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 667775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-667775/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-667552/22-A	Lab Control Sample	Total/NA	Solid	8260B	667552
LCS 500-667775/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 667826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	8260B	667552
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	8260B	667552
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	8260B	667552
500-219774-4	Trip Blank	Total/NA	Solid	8260B	667552
MB 500-667826/8	Method Blank	Total/NA	Solid	8260B	
LCS 500-667826/6	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 667830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-667552/21-A	Method Blank	Total/NA	Solid	8260B	667552
MB 500-667830/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-667830/7	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 668233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	3541	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	3541	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	3541	
MB 500-668233/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-668233/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 668671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	8270D	668233
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	8270D	668233
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	8270D	668233

Analysis Batch: 668959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-668233/1-A	Method Blank	Total/NA	Solid	8270D	668233
LCS 500-668233/2-A	Lab Control Sample	Total/NA	Solid	8270D	668233

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

GC Semi VOA

Prep Batch: 667844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	3541	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	3541	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	3541	
MB 500-667844/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-667844/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 668050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	8082A	667844
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	8082A	667844
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	8082A	667844
MB 500-667844/1-A	Method Blank	Total/NA	Solid	8082A	667844
LCS 500-667844/3-A	Lab Control Sample	Total/NA	Solid	8082A	667844

Metals

Prep Batch: 667042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	3050B	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	3050B	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	3050B	
MB 500-667042/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-667042/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 667400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	6010B	667042
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	6010B	667042
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	6010B	667042
MB 500-667042/1-A	Method Blank	Total/NA	Solid	6010B	667042
LCS 500-667042/2-A	Lab Control Sample	Total/NA	Solid	6010B	667042

Prep Batch: 668052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	7471A	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	7471A	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	7471A	
MB 500-668052/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-668052/13-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 668267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	7471A	668052
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	7471A	668052
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	7471A	668052
MB 500-668052/12-A	Method Blank	Total/NA	Solid	7471A	668052
LCS 500-668052/13-A	Lab Control Sample	Total/NA	Solid	7471A	668052

QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

General Chemistry

Analysis Batch: 666690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-219774-1	WB-RTS-6B, 1-2'	Total/NA	Solid	Moisture	
500-219774-2	WB-MW-6, 1-2'	Total/NA	Solid	Moisture	
500-219774-3	WB-MW-6, 10.5-12'	Total/NA	Solid	Moisture	

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Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Matrix: Solid

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)
500-219774-1	WB-RTS-6B, 1-2'	103	96	100	95
500-219774-2	WB-MW-6, 1-2'	102	96	102	95
500-219774-3	WB-MW-6, 10.5-12'	102	95	101	94
500-219774-4	Trip Blank	103	95	103	95
LB3 500-667552/21-A	Method Blank	90	106	91	90
LCS 500-667552/22-A	Lab Control Sample	93	109	91	90
LCS 500-667775/5	Lab Control Sample	93	106	94	89
LCS 500-667826/6	Lab Control Sample	97	95	101	95
LCS 500-667830/7	Lab Control Sample	89	106	96	90
MB 500-667775/7	Method Blank	93	113	92	89
MB 500-667826/8	Method Blank	100	99	99	96
MB 500-667830/6	Method Blank	88	109	93	90

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: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-219774-1	WB-RTS-6B, 1-2'	72	73	103
500-219774-2	WB-MW-6, 1-2'	76	79	113
500-219774-3	WB-MW-6, 10.5-12'	73	76	113
LCS 500-668233/2-A	Lab Control Sample	87	83	96
MB 500-668233/1-A	Method Blank	98	87	135

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-219774-1	WB-RTS-6B, 1-2'	108	136 S1+
500-219774-2	WB-MW-6, 1-2'	91	126 S1+
500-219774-3	WB-MW-6, 10.5-12'	79	117
LCS 500-667844/3-A	Lab Control Sample	102	123 S1+
MB 500-667844/1-A	Method Blank	91	140 S1+

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LB3 500-667552/21-A
Matrix: Solid
Analysis Batch: 667830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667552

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2-Dibromoethane (EDB)	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Benzene	<0.0073		0.013	0.0073	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Dichlorobromomethane	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Bromoform	<0.024		0.050	0.024	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Chloroform	<0.019		0.10	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LB3 500-667552/21-A
Matrix: Solid
Analysis Batch: 667830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667552

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Styrene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		07/29/22 02:45	08/01/22 14:25	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		07/29/22 02:45	08/01/22 14:25	50

Surrogate	LB3 %Recovery	LB3 Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126	07/29/22 02:45	08/01/22 14:25	50
4-Bromofluorobenzene (Surr)	106		72 - 124	07/29/22 02:45	08/01/22 14:25	50
Dibromofluoromethane (Surr)	91		75 - 120	07/29/22 02:45	08/01/22 14:25	50
Toluene-d8 (Surr)	90		75 - 120	07/29/22 02:45	08/01/22 14:25	50

Lab Sample ID: LCS 500-667552/22-A
Matrix: Solid
Analysis Batch: 667775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	2.50	2.42		mg/Kg		97	70 - 125
1,1,1-Trichloroethane	2.50	2.46		mg/Kg		98	70 - 125
1,1,1,2,2-Tetrachloroethane	2.50	2.52		mg/Kg		101	62 - 140
1,1,1,2-Trichloroethane	2.50	2.40		mg/Kg		96	71 - 130
1,1-Dichloroethane	2.50	2.77		mg/Kg		111	70 - 125
1,1-Dichloroethene	2.50	2.30		mg/Kg		92	67 - 122
1,1-Dichloropropene	2.50	2.48		mg/Kg		99	70 - 121
1,2,3-Trichlorobenzene	2.50	2.22		mg/Kg		89	51 - 145
1,2,3-Trichloropropane	2.50	2.60		mg/Kg		104	50 - 133
1,2,4-Trichlorobenzene	2.50	2.38		mg/Kg		95	57 - 137
1,2,4-Trimethylbenzene	2.50	2.84		mg/Kg		114	70 - 123
1,2-Dibromo-3-Chloropropane	2.50	2.49		mg/Kg		100	56 - 123
1,2-Dibromoethane (EDB)	2.50	2.45		mg/Kg		98	70 - 125
1,2-Dichlorobenzene	2.50	2.67		mg/Kg		107	70 - 125
1,2-Dichloroethane	2.50	2.59		mg/Kg		104	68 - 127
1,2-Dichloropropane	2.50	2.93		mg/Kg		117	67 - 130
1,3,5-Trimethylbenzene	2.50	2.81		mg/Kg		112	70 - 123
1,3-Dichlorobenzene	2.50	2.66		mg/Kg		106	70 - 125
1,3-Dichloropropane	2.50	2.45		mg/Kg		98	62 - 136
1,4-Dichlorobenzene	2.50	2.62		mg/Kg		105	70 - 120
2,2-Dichloropropane	2.50	2.65		mg/Kg		106	58 - 139
2-Chlorotoluene	2.50	2.78		mg/Kg		111	70 - 125
4-Chlorotoluene	2.50	2.81		mg/Kg		112	68 - 124
Benzene	2.50	2.47		mg/Kg		99	70 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LCS 500-667552/22-A
Matrix: Solid
Analysis Batch: 667775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	2.50	2.76		mg/Kg		110	70 - 122
Bromochloromethane	2.50	2.45		mg/Kg		98	65 - 122
Dichlorobromomethane	2.50	2.43		mg/Kg		97	69 - 120
Bromoform	2.50	2.46		mg/Kg		98	56 - 132
Bromomethane	2.50	2.25		mg/Kg		90	40 - 152
Carbon tetrachloride	2.50	2.53		mg/Kg		101	59 - 133
Chlorobenzene	2.50	2.42		mg/Kg		97	70 - 120
Chloroethane	2.50	2.50		mg/Kg		100	48 - 136
Chloroform	2.50	2.37		mg/Kg		95	70 - 120
Chloromethane	2.50	2.25		mg/Kg		90	56 - 152
cis-1,2-Dichloroethene	2.50	2.52		mg/Kg		101	70 - 125
cis-1,3-Dichloropropene	2.50	2.46		mg/Kg		98	64 - 127
Dibromochloromethane	2.50	2.32		mg/Kg		93	68 - 125
Dibromomethane	2.50	2.44		mg/Kg		98	70 - 120
Dichlorodifluoromethane	2.50	1.14		mg/Kg		45	40 - 159
Ethylbenzene	2.50	2.51		mg/Kg		100	70 - 123
Hexachlorobutadiene	2.50	2.65		mg/Kg		106	51 - 150
Isopropylbenzene	2.50	2.75		mg/Kg		110	70 - 126
Methyl tert-butyl ether	2.50	2.36		mg/Kg		94	55 - 123
Methylene Chloride	2.50	2.38		mg/Kg		95	69 - 125
Naphthalene	2.50	2.23		mg/Kg		89	53 - 144
n-Butylbenzene	2.50	2.77		mg/Kg		111	68 - 125
N-Propylbenzene	2.50	2.84		mg/Kg		114	69 - 127
p-Isopropyltoluene	2.50	2.83		mg/Kg		113	70 - 125
sec-Butylbenzene	2.50	2.78		mg/Kg		111	70 - 123
Styrene	2.50	2.64		mg/Kg		105	70 - 120
tert-Butylbenzene	2.50	2.83		mg/Kg		113	70 - 121
Tetrachloroethene	2.50	2.44		mg/Kg		98	70 - 128
Toluene	2.50	2.51		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	2.50	2.41		mg/Kg		97	70 - 125
trans-1,3-Dichloropropene	2.50	2.49		mg/Kg		100	62 - 128
Trichloroethene	2.50	2.50		mg/Kg		100	70 - 125
Trichlorofluoromethane	2.50	2.37		mg/Kg		95	55 - 128
Vinyl chloride	2.50	1.87		mg/Kg		75	64 - 126
Xylenes, Total	5.00	5.12		mg/Kg		102	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 126
4-Bromofluorobenzene (Surr)	109		72 - 124
Dibromofluoromethane (Surr)	91		75 - 120
Toluene-d8 (Surr)	90		75 - 120

Lab Sample ID: MB 500-667775/7
Matrix: Solid
Analysis Batch: 667775

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	<0.00046		0.0010	0.00046	mg/Kg			07/31/22 13:44	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667775/7
Matrix: Solid
Analysis Batch: 667775

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			07/31/22 13:44	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			07/31/22 13:44	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			07/31/22 13:44	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			07/31/22 13:44	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			07/31/22 13:44	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			07/31/22 13:44	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			07/31/22 13:44	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			07/31/22 13:44	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			07/31/22 13:44	1
1,2-Dibromoethane (EDB)	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			07/31/22 13:44	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			07/31/22 13:44	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/31/22 13:44	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			07/31/22 13:44	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			07/31/22 13:44	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			07/31/22 13:44	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			07/31/22 13:44	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			07/31/22 13:44	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			07/31/22 13:44	1
Dichlorobromomethane	<0.00037		0.0010	0.00037	mg/Kg			07/31/22 13:44	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			07/31/22 13:44	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			07/31/22 13:44	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			07/31/22 13:44	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			07/31/22 13:44	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			07/31/22 13:44	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			07/31/22 13:44	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			07/31/22 13:44	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			07/31/22 13:44	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			07/31/22 13:44	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			07/31/22 13:44	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			07/31/22 13:44	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			07/31/22 13:44	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			07/31/22 13:44	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			07/31/22 13:44	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			07/31/22 13:44	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			07/31/22 13:44	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			07/31/22 13:44	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			07/31/22 13:44	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/31/22 13:44	1

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667775/7

Matrix: Solid

Analysis Batch: 667775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.00039		0.0010	0.00039	mg/Kg			07/31/22 13:44	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			07/31/22 13:44	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			07/31/22 13:44	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			07/31/22 13:44	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			07/31/22 13:44	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			07/31/22 13:44	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			07/31/22 13:44	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			07/31/22 13:44	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			07/31/22 13:44	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			07/31/22 13:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		07/31/22 13:44	1
4-Bromofluorobenzene (Surr)	113		72 - 124		07/31/22 13:44	1
Dibromofluoromethane (Surr)	92		75 - 120		07/31/22 13:44	1
Toluene-d8 (Surr)	89		75 - 120		07/31/22 13:44	1

Lab Sample ID: LCS 500-667775/5

Matrix: Solid

Analysis Batch: 667775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0452		mg/Kg		90	70 - 125
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0468		mg/Kg		94	62 - 140
1,1,2-Trichloroethane	0.0500	0.0441		mg/Kg		88	71 - 130
1,1-Dichloroethane	0.0500	0.0523		mg/Kg		105	70 - 125
1,1-Dichloroethene	0.0500	0.0439		mg/Kg		88	67 - 122
1,1-Dichloropropene	0.0500	0.0466		mg/Kg		93	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0399		mg/Kg		80	51 - 145
1,2,3-Trichloropropane	0.0500	0.0488		mg/Kg		98	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0436		mg/Kg		87	57 - 137
1,2,4-Trimethylbenzene	0.0500	0.0524		mg/Kg		105	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0481		mg/Kg		96	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0455		mg/Kg		91	70 - 125
1,2-Dichlorobenzene	0.0500	0.0489		mg/Kg		98	70 - 125
1,2-Dichloroethane	0.0500	0.0483		mg/Kg		97	68 - 127
1,2-Dichloropropane	0.0500	0.0548		mg/Kg		110	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0521		mg/Kg		104	70 - 123
1,3-Dichlorobenzene	0.0500	0.0492		mg/Kg		98	70 - 125
1,3-Dichloropropane	0.0500	0.0452		mg/Kg		90	62 - 136
1,4-Dichlorobenzene	0.0500	0.0483		mg/Kg		97	70 - 120
2,2-Dichloropropane	0.0500	0.0518		mg/Kg		104	58 - 139
2-Chlorotoluene	0.0500	0.0516		mg/Kg		103	70 - 125
4-Chlorotoluene	0.0500	0.0516		mg/Kg		103	68 - 124
Benzene	0.0500	0.0469		mg/Kg		94	70 - 120
Bromobenzene	0.0500	0.0509		mg/Kg		102	70 - 122
Bromochloromethane	0.0500	0.0448		mg/Kg		90	65 - 122

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LCS 500-667775/5
Matrix: Solid
Analysis Batch: 667775

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorobromomethane	0.0500	0.0475		mg/Kg		95	69 - 120
Bromoform	0.0500	0.0512		mg/Kg		102	56 - 132
Bromomethane	0.0500	0.0572		mg/Kg		114	40 - 152
Carbon tetrachloride	0.0500	0.0501		mg/Kg		100	59 - 133
Chlorobenzene	0.0500	0.0450		mg/Kg		90	70 - 120
Chloroethane	0.0500	0.0566		mg/Kg		113	48 - 136
Chloroform	0.0500	0.0438		mg/Kg		88	70 - 120
Chloromethane	0.0500	0.0549		mg/Kg		110	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0461		mg/Kg		92	64 - 127
Dibromochloromethane	0.0500	0.0458		mg/Kg		92	68 - 125
Dibromomethane	0.0500	0.0459		mg/Kg		92	70 - 120
Dichlorodifluoromethane	0.0500	0.0433		mg/Kg		87	40 - 159
Ethylbenzene	0.0500	0.0469		mg/Kg		94	70 - 123
Hexachlorobutadiene	0.0500	0.0481		mg/Kg		96	51 - 150
Isopropylbenzene	0.0500	0.0510		mg/Kg		102	70 - 126
Methyl tert-butyl ether	0.0500	0.0436		mg/Kg		87	55 - 123
Methylene Chloride	0.0500	0.0439		mg/Kg		88	69 - 125
Naphthalene	0.0500	0.0397		mg/Kg		79	53 - 144
n-Butylbenzene	0.0500	0.0510		mg/Kg		102	68 - 125
N-Propylbenzene	0.0500	0.0530		mg/Kg		106	69 - 127
p-Isopropyltoluene	0.0500	0.0528		mg/Kg		106	70 - 125
sec-Butylbenzene	0.0500	0.0518		mg/Kg		104	70 - 123
Styrene	0.0500	0.0495		mg/Kg		99	70 - 120
tert-Butylbenzene	0.0500	0.0521		mg/Kg		104	70 - 121
Tetrachloroethene	0.0500	0.0456		mg/Kg		91	70 - 128
Toluene	0.0500	0.0469		mg/Kg		94	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0469		mg/Kg		94	62 - 128
Trichloroethene	0.0500	0.0471		mg/Kg		94	70 - 125
Trichlorofluoromethane	0.0500	0.0489		mg/Kg		98	55 - 128
Vinyl chloride	0.0500	0.0421		mg/Kg		84	64 - 126
Xylenes, Total	0.100	0.0958		mg/Kg		96	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
Toluene-d8 (Surr)	89		75 - 120

Lab Sample ID: MB 500-667826/8
Matrix: Solid
Analysis Batch: 667826

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	<0.00046		0.0010	0.00046	mg/Kg			08/01/22 10:44	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 10:44	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 10:44	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667826/8

Matrix: Solid

Analysis Batch: 667826

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	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 10:44	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 10:44	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			08/01/22 10:44	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			08/01/22 10:44	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			08/01/22 10:44	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			08/01/22 10:44	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			08/01/22 10:44	1
1,2-Dibromoethane (EDB)	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			08/01/22 10:44	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 10:44	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 10:44	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 10:44	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			08/01/22 10:44	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			08/01/22 10:44	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 10:44	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			08/01/22 10:44	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 10:44	1
Dichlorobromomethane	<0.00037		0.0010	0.00037	mg/Kg			08/01/22 10:44	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			08/01/22 10:44	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			08/01/22 10:44	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 10:44	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			08/01/22 10:44	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			08/01/22 10:44	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			08/01/22 10:44	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 10:44	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			08/01/22 10:44	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			08/01/22 10:44	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			08/01/22 10:44	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			08/01/22 10:44	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			08/01/22 10:44	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			08/01/22 10:44	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			08/01/22 10:44	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 10:44	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
Methylene Chloride	0.00413	J	0.0050	0.0016	mg/Kg			08/01/22 10:44	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			08/01/22 10:44	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 10:44	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 10:44	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 10:44	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 10:44	1

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667826/8
Matrix: Solid
Analysis Batch: 667826

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			08/01/22 10:44	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			08/01/22 10:44	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 10:44	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 10:44	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			08/01/22 10:44	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 10:44	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			08/01/22 10:44	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			08/01/22 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		08/01/22 10:44	1
4-Bromofluorobenzene (Surr)	99		72 - 124		08/01/22 10:44	1
Dibromofluoromethane (Surr)	99		75 - 120		08/01/22 10:44	1
Toluene-d8 (Surr)	96		75 - 120		08/01/22 10:44	1

Lab Sample ID: LCS 500-667826/6
Matrix: Solid
Analysis Batch: 667826

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0429		mg/Kg		86	70 - 125
1,1,1-Trichloroethane	0.0500	0.0437		mg/Kg		87	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0447		mg/Kg		89	62 - 140
1,1,2-Trichloroethane	0.0500	0.0436		mg/Kg		87	71 - 130
1,1-Dichloroethane	0.0500	0.0428		mg/Kg		86	70 - 125
1,1-Dichloroethene	0.0500	0.0425		mg/Kg		85	67 - 122
1,1-Dichloropropene	0.0500	0.0433		mg/Kg		87	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0475		mg/Kg		95	51 - 145
1,2,3-Trichloropropane	0.0500	0.0426		mg/Kg		85	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0500		mg/Kg		100	57 - 137
1,2,4-Trimethylbenzene	0.0500	0.0429		mg/Kg		86	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0414		mg/Kg		83	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0420		mg/Kg		84	70 - 125
1,2-Dichlorobenzene	0.0500	0.0431		mg/Kg		86	70 - 125
1,2-Dichloroethane	0.0500	0.0437		mg/Kg		87	68 - 127
1,2-Dichloropropane	0.0500	0.0411		mg/Kg		82	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0433		mg/Kg		87	70 - 123
1,3-Dichlorobenzene	0.0500	0.0430		mg/Kg		86	70 - 125
1,3-Dichloropropane	0.0500	0.0417		mg/Kg		83	62 - 136
1,4-Dichlorobenzene	0.0500	0.0428		mg/Kg		86	70 - 120
2,2-Dichloropropane	0.0500	0.0431		mg/Kg		86	58 - 139
2-Chlorotoluene	0.0500	0.0419		mg/Kg		84	70 - 125
4-Chlorotoluene	0.0500	0.0420		mg/Kg		84	68 - 124
Benzene	0.0500	0.0415		mg/Kg		83	70 - 120
Bromobenzene	0.0500	0.0420		mg/Kg		84	70 - 122
Bromochloromethane	0.0500	0.0426		mg/Kg		85	65 - 122
Dichlorobromomethane	0.0500	0.0424		mg/Kg		85	69 - 120
Bromoform	0.0500	0.0429		mg/Kg		86	56 - 132

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LCS 500-667826/6
Matrix: Solid
Analysis Batch: 667826

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	0.0500	0.0522		mg/Kg		104	40 - 152
Carbon tetrachloride	0.0500	0.0449		mg/Kg		90	59 - 133
Chlorobenzene	0.0500	0.0417		mg/Kg		83	70 - 120
Chloroethane	0.0500	0.0467		mg/Kg		93	48 - 136
Chloroform	0.0500	0.0459		mg/Kg		92	70 - 120
Chloromethane	0.0500	0.0469		mg/Kg		94	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0421		mg/Kg		84	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0422		mg/Kg		84	64 - 127
Dibromochloromethane	0.0500	0.0427		mg/Kg		85	68 - 125
Dibromomethane	0.0500	0.0430		mg/Kg		86	70 - 120
Dichlorodifluoromethane	0.0500	0.0475		mg/Kg		95	40 - 159
Ethylbenzene	0.0500	0.0401		mg/Kg		80	70 - 123
Hexachlorobutadiene	0.0500	0.0441		mg/Kg		88	51 - 150
Isopropylbenzene	0.0500	0.0429		mg/Kg		86	70 - 126
Methyl tert-butyl ether	0.0500	0.0441		mg/Kg		88	55 - 123
Methylene Chloride	0.0500	0.0416		mg/Kg		83	69 - 125
Naphthalene	0.0500	0.0489		mg/Kg		98	53 - 144
n-Butylbenzene	0.0500	0.0429		mg/Kg		86	68 - 125
N-Propylbenzene	0.0500	0.0428		mg/Kg		86	69 - 127
p-Isopropyltoluene	0.0500	0.0441		mg/Kg		88	70 - 125
sec-Butylbenzene	0.0500	0.0435		mg/Kg		87	70 - 123
Styrene	0.0500	0.0420		mg/Kg		84	70 - 120
tert-Butylbenzene	0.0500	0.0437		mg/Kg		87	70 - 121
Tetrachloroethene	0.0500	0.0428		mg/Kg		86	70 - 128
Toluene	0.0500	0.0432		mg/Kg		86	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0427		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0425		mg/Kg		85	62 - 128
Trichloroethene	0.0500	0.0431		mg/Kg		86	70 - 125
Trichlorofluoromethane	0.0500	0.0478		mg/Kg		96	55 - 128
Vinyl chloride	0.0500	0.0480		mg/Kg		96	64 - 126
Xylenes, Total	0.100	0.0814		mg/Kg		81	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 126
4-Bromofluorobenzene (Surr)	95		72 - 124
Dibromofluoromethane (Surr)	101		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-667830/6
Matrix: Solid
Analysis Batch: 667830

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	<0.00046		0.0010	0.00046	mg/Kg			08/01/22 09:58	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 09:58	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 09:58	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 09:58	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 09:58	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667830/6
Matrix: Solid
Analysis Batch: 667830

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			08/01/22 09:58	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			08/01/22 09:58	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			08/01/22 09:58	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			08/01/22 09:58	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			08/01/22 09:58	1
1,2-Dibromoethane (EDB)	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			08/01/22 09:58	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 09:58	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 09:58	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 09:58	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			08/01/22 09:58	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			08/01/22 09:58	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 09:58	1
Benzene	<0.00015		0.00025	0.00015	mg/Kg			08/01/22 09:58	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 09:58	1
Dichlorobromomethane	<0.00037		0.0010	0.00037	mg/Kg			08/01/22 09:58	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			08/01/22 09:58	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			08/01/22 09:58	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 09:58	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			08/01/22 09:58	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			08/01/22 09:58	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			08/01/22 09:58	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 09:58	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			08/01/22 09:58	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			08/01/22 09:58	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			08/01/22 09:58	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			08/01/22 09:58	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			08/01/22 09:58	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			08/01/22 09:58	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			08/01/22 09:58	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			08/01/22 09:58	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			08/01/22 09:58	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			08/01/22 09:58	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			08/01/22 09:58	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 09:58	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			08/01/22 09:58	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			08/01/22 09:58	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			08/01/22 09:58	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			08/01/22 09:58	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667830/6
Matrix: Solid
Analysis Batch: 667830

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			08/01/22 09:58	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			08/01/22 09:58	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			08/01/22 09:58	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			08/01/22 09:58	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			08/01/22 09:58	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			08/01/22 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		08/01/22 09:58	1
4-Bromofluorobenzene (Surr)	109		72 - 124		08/01/22 09:58	1
Dibromofluoromethane (Surr)	93		75 - 120		08/01/22 09:58	1
Toluene-d8 (Surr)	90		75 - 120		08/01/22 09:58	1

Lab Sample ID: LCS 500-667830/7
Matrix: Solid
Analysis Batch: 667830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.0500	0.0407		mg/Kg		81	70 - 125
1,1,1-Trichloroethane	0.0500	0.0430		mg/Kg		86	70 - 125
1,1,1,2,2-Tetrachloroethane	0.0500	0.0438		mg/Kg		88	62 - 140
1,1,1,2-Trichloroethane	0.0500	0.0400		mg/Kg		80	71 - 130
1,1-Dichloroethane	0.0500	0.0461		mg/Kg		92	70 - 125
1,1-Dichloroethene	0.0500	0.0414		mg/Kg		83	67 - 122
1,1-Dichloropropene	0.0500	0.0421		mg/Kg		84	70 - 121
1,2,3-Trichlorobenzene	0.0500	0.0372		mg/Kg		74	51 - 145
1,2,3-Trichloropropene	0.0500	0.0438		mg/Kg		88	50 - 133
1,2,4-Trichlorobenzene	0.0500	0.0406		mg/Kg		81	57 - 137
1,2,4-Trimethylbenzene	0.0500	0.0473		mg/Kg		95	70 - 123
1,2-Dibromo-3-Chloropropane	0.0500	0.0434		mg/Kg		87	56 - 123
1,2-Dibromoethane (EDB)	0.0500	0.0416		mg/Kg		83	70 - 125
1,2-Dichlorobenzene	0.0500	0.0441		mg/Kg		88	70 - 125
1,2-Dichloroethane	0.0500	0.0419		mg/Kg		84	68 - 127
1,2-Dichloropropane	0.0500	0.0481		mg/Kg		96	67 - 130
1,3,5-Trimethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 123
1,3-Dichlorobenzene	0.0500	0.0444		mg/Kg		89	70 - 125
1,3-Dichloropropane	0.0500	0.0411		mg/Kg		82	62 - 136
1,4-Dichlorobenzene	0.0500	0.0444		mg/Kg		89	70 - 120
2,2-Dichloropropane	0.0500	0.0488		mg/Kg		98	58 - 139
2-Chlorotoluene	0.0500	0.0463		mg/Kg		93	70 - 125
4-Chlorotoluene	0.0500	0.0470		mg/Kg		94	68 - 124
Benzene	0.0500	0.0418		mg/Kg		84	70 - 120
Bromobenzene	0.0500	0.0460		mg/Kg		92	70 - 122
Bromochloromethane	0.0500	0.0414		mg/Kg		83	65 - 122
Dichlorobromomethane	0.0500	0.0431		mg/Kg		86	69 - 120
Bromoform	0.0500	0.0495		mg/Kg		99	56 - 132
Bromomethane	0.0500	0.0813	*+	mg/Kg		163	40 - 152
Carbon tetrachloride	0.0500	0.0464		mg/Kg		93	59 - 133

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: LCS 500-667830/7
Matrix: Solid
Analysis Batch: 667830

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	0.0500	0.0414		mg/Kg		83	70 - 120
Chloroethane	0.0500	0.0604		mg/Kg		121	48 - 136
Chloroform	0.0500	0.0401		mg/Kg		80	70 - 120
Chloromethane	0.0500	0.0498		mg/Kg		100	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0419		mg/Kg		84	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0413		mg/Kg		83	64 - 127
Dibromochloromethane	0.0500	0.0441		mg/Kg		88	68 - 125
Dibromomethane	0.0500	0.0415		mg/Kg		83	70 - 120
Dichlorodifluoromethane	0.0500	0.0461		mg/Kg		92	40 - 159
Ethylbenzene	0.0500	0.0426		mg/Kg		85	70 - 123
Hexachlorobutadiene	0.0500	0.0454		mg/Kg		91	51 - 150
Isopropylbenzene	0.0500	0.0468		mg/Kg		94	70 - 126
Methyl tert-butyl ether	0.0500	0.0391		mg/Kg		78	55 - 123
Methylene Chloride	0.0500	0.0432		mg/Kg		86	69 - 125
Naphthalene	0.0500	0.0376		mg/Kg		75	53 - 144
n-Butylbenzene	0.0500	0.0465		mg/Kg		93	68 - 125
N-Propylbenzene	0.0500	0.0478		mg/Kg		96	69 - 127
p-Isopropyltoluene	0.0500	0.0480		mg/Kg		96	70 - 125
sec-Butylbenzene	0.0500	0.0468		mg/Kg		94	70 - 123
Styrene	0.0500	0.0442		mg/Kg		88	70 - 120
tert-Butylbenzene	0.0500	0.0469		mg/Kg		94	70 - 121
Tetrachloroethene	0.0500	0.0431		mg/Kg		86	70 - 128
Toluene	0.0500	0.0430		mg/Kg		86	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0426		mg/Kg		85	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0418		mg/Kg		84	62 - 128
Trichloroethene	0.0500	0.0425		mg/Kg		85	70 - 125
Trichlorofluoromethane	0.0500	0.0510		mg/Kg		102	55 - 128
Vinyl chloride	0.0500	0.0513		mg/Kg		103	64 - 126
Xylenes, Total	0.100	0.0866		mg/Kg		87	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 126
4-Bromofluorobenzene (Surr)	106		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
Toluene-d8 (Surr)	90		75 - 120

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

Lab Sample ID: MB 500-668233/1-A
Matrix: Solid
Analysis Batch: 668959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.0081		0.067	0.0081	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Benzo[a]anthracene	0.00607	J	0.033	0.0045	mg/Kg		08/03/22 07:42	08/08/22 17:32	1

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QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-668233/1-A
Matrix: Solid
Analysis Batch: 668959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668233

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Fluoranthene	0.0121	J	0.033	0.0062	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Phenanthrene	0.0150	J	0.033	0.0046	mg/Kg		08/03/22 07:42	08/08/22 17:32	1
Pyrene	0.0121	J	0.033	0.0066	mg/Kg		08/03/22 07:42	08/08/22 17:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	98		43 - 145	08/03/22 07:42	08/08/22 17:32	1
Nitrobenzene-d5 (Surr)	87		37 - 147	08/03/22 07:42	08/08/22 17:32	1
Terphenyl-d14 (Surr)	135		42 - 157	08/03/22 07:42	08/08/22 17:32	1

Lab Sample ID: LCS 500-668233/2-A
Matrix: Solid
Analysis Batch: 668959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Methylnaphthalene	1.33	1.29		mg/Kg		97	69 - 112
Acenaphthene	1.33	1.28		mg/Kg		96	65 - 124
Acenaphthylene	1.33	1.22		mg/Kg		91	68 - 120
Anthracene	1.33	1.29		mg/Kg		97	70 - 114
Benzo[a]anthracene	1.33	1.25		mg/Kg		94	67 - 122
Benzo[a]pyrene	1.33	1.37		mg/Kg		103	65 - 133
Benzo[b]fluoranthene	1.33	1.33		mg/Kg		100	69 - 129
Benzo[g,h,i]perylene	1.33	1.38		mg/Kg		103	72 - 131
Benzo[k]fluoranthene	1.33	1.39		mg/Kg		104	68 - 127
Chrysene	1.33	1.28		mg/Kg		96	63 - 120
Dibenz(a,h)anthracene	1.33	1.29		mg/Kg		96	64 - 131
Fluoranthene	1.33	1.38		mg/Kg		103	62 - 120
Fluorene	1.33	1.29		mg/Kg		97	62 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.42		mg/Kg		107	68 - 130
Naphthalene	1.33	1.25		mg/Kg		94	63 - 110
Phenanthrene	1.33	1.28		mg/Kg		96	62 - 120
Pyrene	1.33	1.32		mg/Kg		99	61 - 128

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	87		43 - 145
Nitrobenzene-d5 (Surr)	83		37 - 147
Terphenyl-d14 (Surr)	96		42 - 157

QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

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

Lab Sample ID: MB 500-667844/1-A
Matrix: Solid
Analysis Batch: 668050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667844

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		08/01/22 07:56	08/02/22 09:52	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		08/01/22 07:56	08/02/22 09:52	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	91		49 - 129	08/01/22 07:56	08/02/22 09:52	1
DCB Decachlorobiphenyl	140	S1+	37 - 121	08/01/22 07:56	08/02/22 09:52	1

Lab Sample ID: LCS 500-667844/3-A
Matrix: Solid
Analysis Batch: 668050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667844

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	0.167	0.157		mg/Kg		94	57 - 120
PCB-1260	0.167	0.175		mg/Kg		105	61 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	102		49 - 129
DCB Decachlorobiphenyl	123	S1+	37 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-667042/1-A
Matrix: Solid
Analysis Batch: 667400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 667042

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.34		1.0	0.34	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Barium	<0.11		1.0	0.11	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Cadmium	0.0694	J	0.20	0.036	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Lead	<0.23		0.50	0.23	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/26/22 09:33	07/27/22 17:16	1
Silver	<0.13		0.50	0.13	mg/Kg		07/26/22 09:33	07/27/22 17:16	1

Lab Sample ID: LCS 500-667042/2-A
Matrix: Solid
Analysis Batch: 667400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667042

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	10.0	9.25		mg/Kg		92	80 - 120
Barium	200	207		mg/Kg		103	80 - 120
Cadmium	5.00	4.76		mg/Kg		95	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120

Eurofins Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-667042/2-A
Matrix: Solid
Analysis Batch: 667400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 667042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	10.0	9.30		mg/Kg		93	80 - 120
Selenium	10.0	8.66		mg/Kg		87	80 - 120
Silver	5.00	4.51		mg/Kg		90	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-668052/12-A
Matrix: Solid
Analysis Batch: 668267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/02/22 13:40	08/03/22 08:01	1

Lab Sample ID: LCS 500-668052/13-A
Matrix: Solid
Analysis Batch: 668267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-RTS-6B, 1-2'
Date Collected: 07/20/22 09:00
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	666690	07/22/22 15:00	LWN	EETNC CHI

Client Sample ID: WB-RTS-6B, 1-2'
Date Collected: 07/20/22 09:00
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-1
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			667552	07/20/22 09:00	WRE	EETNC CHI
Total/NA	Analysis	8260B		50	667826	08/01/22 11:08	W1T	EETNC CHI
Total/NA	Prep	3541			668233	08/03/22 07:42	KN	EETNC CHI
Total/NA	Analysis	8270D		5	668671	08/05/22 16:34	JSB	EETNC CHI
Total/NA	Prep	3541			667844	08/01/22 07:56	KN	EETNC CHI
Total/NA	Analysis	8082A		1	668050	08/02/22 11:06	SS	EETNC CHI
Total/NA	Prep	3050B			667042	07/26/22 09:33	BDE	EETNC CHI
Total/NA	Analysis	6010B		1	667400	07/27/22 18:08	JJB	EETNC CHI
Total/NA	Prep	7471A			668052	08/02/22 13:40	MJG	EETNC CHI
Total/NA	Analysis	7471A		1	668267	08/03/22 08:09	MJG	EETNC CHI

Client Sample ID: WB-MW-6, 1-2'
Date Collected: 07/20/22 11:55
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	666690	07/22/22 15:00	LWN	EETNC CHI

Client Sample ID: WB-MW-6, 1-2'
Date Collected: 07/20/22 11:55
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-2
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			667552	07/20/22 11:55	WRE	EETNC CHI
Total/NA	Analysis	8260B		50	667826	08/01/22 11:32	W1T	EETNC CHI
Total/NA	Prep	3541			668233	08/03/22 07:42	KN	EETNC CHI
Total/NA	Analysis	8270D		1	668671	08/05/22 16:58	JSB	EETNC CHI
Total/NA	Prep	3541			667844	08/01/22 07:56	KN	EETNC CHI
Total/NA	Analysis	8082A		1	668050	08/02/22 11:21	SS	EETNC CHI
Total/NA	Prep	3050B			667042	07/26/22 09:33	BDE	EETNC CHI
Total/NA	Analysis	6010B		1	667400	07/27/22 18:11	JJB	EETNC CHI
Total/NA	Prep	7471A			668052	08/02/22 13:40	MJG	EETNC CHI
Total/NA	Analysis	7471A		1	668267	08/03/22 08:11	MJG	EETNC CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: CWC - 40443A

Job ID: 500-219774-1

Client Sample ID: WB-MW-6, 10.5-12'
Date Collected: 07/20/22 12:15
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	666690	07/22/22 15:00	LWN	EETNC CHI

Client Sample ID: WB-MW-6, 10.5-12'
Date Collected: 07/20/22 12:15
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-3
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			667552	07/20/22 12:15	WRE	EETNC CHI
Total/NA	Analysis	8260B		50	667826	08/01/22 11:56	W1T	EETNC CHI
Total/NA	Prep	3541			668233	08/03/22 07:42	KN	EETNC CHI
Total/NA	Analysis	8270D		1	668671	08/05/22 17:22	JSB	EETNC CHI
Total/NA	Prep	3541			667844	08/01/22 07:56	KN	EETNC CHI
Total/NA	Analysis	8082A		1	668050	08/02/22 11:36	SS	EETNC CHI
Total/NA	Prep	3050B			667042	07/26/22 09:33	BDE	EETNC CHI
Total/NA	Analysis	6010B		1	667400	07/27/22 18:14	JJB	EETNC CHI
Total/NA	Prep	7471A			668052	08/02/22 13:40	MJG	EETNC CHI
Total/NA	Analysis	7471A		1	668267	08/03/22 08:13	MJG	EETNC CHI

Client Sample ID: Trip Blank
Date Collected: 07/20/22 00:00
Date Received: 07/22/22 10:15

Lab Sample ID: 500-219774-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			667552	07/20/22 00:00	WRE	EETNC CHI
Total/NA	Analysis	8260B		50	667826	08/01/22 12:21	W1T	EETNC CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - 40443A

Job ID: 500-219774-1

Laboratory: Eurofins 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
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



500-219774 COC

500-219774

Sample Collector(s) Alex Huebner	Title Staff Engineer	Telephone # (incl area code) (262) 821 1171	Report To Robert Reineke and Daniel Pelczar
Property Owner CWC	Property Address 35th and Center Street	Telephone # (incl area code)	KSingh Project # 40443A

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

Relinquished By (Signature) <i>[Signature]</i>	Date/Time 7/20/22, 5:00pm	Received By (Signature) <i>[Signature]</i>	Temperature Blank. <i>44 → 20</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.
Relinquished By (Signature) <i>[Signature]</i>	Date/Time 7-21-22 1700	Received By (Signature) <i>[Signature]</i>	

1 Specify groundwater (GW) soil (S) air (A) sludge (SL) surface water (SW) etc															Sample Condition									
2 Sample description must clearly correlate the sample I D to the sampling location															# / Type of Container									
Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PCBs	PAHs	RCRA Metals											MeOH	HCL	H2SO4	Unpres	Other Comment	
		Type (1)	Device																					
7/20/22	9:00am	Soil	SS	WB-RTS-6B, 1-2'	X	X	X	X											1					
	11:55am	S	SS	WB-MW-6, 1-2'	X	X	X	X											1					
	12:15pm	S	SS	WB-MW-6, 10.5-12'	X	X	X	X											1					
	-	MOH	-	Tip 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 _____			

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Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-219774-1

Login Number: 219774

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

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	2.4
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT B


Soil Boring Logs and Abandonment Forms

SOIL BORING LOG

PROJECT NAME: West Block - CWC
DRILL EQUIP: Geoprobe 7822DT
DRILLER: Scott Klumb
DRILLING METHOD: HSA
CONTRACTOR: Soil & Engineering Services, Inc.

GROUND SURFACE ELEVATION:
NORTH:
EAST:
CHECKED BY: Daniel Pelczar, CPG, PG
FIELD ENGINEER: Alexander Huebner

DATE BEGAN: 7/20/2022
DATE FINISHED: 7/20/2022
PROJECT NO: 40443A
BORING NO: WB-RTS-6B

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
0.0	0.0	FILL - Silty Clay (CL) - Stiff, grey to brown, moist, little gravel, trace sand and organics						1-SS	24/24					0.1	2
		End of Soil Probe at 2 ft													

-5.0 5.0

SOIL BORING LOG

PROJECT NAME: West Block - CWC	GROUND SURFACE ELEVATION: 683.027	DATE BEGAN: 7/20/2022
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396226.222	DATE FINISHED: 7/20/2022
DRILLER: Scott Klumb	EAST: 2546411.198	PROJECT NO: 40443A
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar, CPG, PG	BORING NO: WB-MW-2R
CONTRACTOR: Soil & Engineering Services, Inc.	FIELD ENGINEER: Alexander Huebner	

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
680.0	0.0	See WB-MW-2 boring log for soil description (0' to 24'). Blind Drilled.													
675.0	5.0														
670.0	10.0														
665.0	15.0														
660.0	20.0														
	25.0	SILTY CLAY (CL) - Very stiff, grey, moist, trace gravel			CL	2-2-2	4	1-SS	18/18					0.1	3
	27.5	CLAYEY SILT (ML) - Very soft, grey, wet, trace gravel			ML									0.1	
655.0	30.0	SILTY CLAY (CL) - Very stiff, grey, moist, trace gravel			CL	6-6-10	16	2-SS	18/18					0.1	3
	32.5	CLAYEY SILT (ML) - Very stiff, grey, moist, some gravel			ML									0.1	
650.0	35.0	Converted into monitoring well WB-MW-2R													4

SOIL BORING LOG

PROJECT NAME: West Block - CWC	GROUND SURFACE ELEVATION: 683.822	DATE BEGAN: 7/18/2022
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396307.847	DATE FINISHED: 7/18/2022
DRILLER: Scott Klumb	EAST: 2546664.108	PROJECT NO: 40443A
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar, CPG, PG	BORING NO: WB-MW-3R
CONTRACTOR: Soil & Engineering Services, Inc.	FIELD ENGINEER: Alexander Huebner	

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
680.0	0.0	See WB-MW-3 boring log for soil description (0' to 25'). Blind Drilled.													
675.0	5.0														
670.0	10.0														
665.0	15.0														
660.0	20.0														
655.0	25.0	SILTY CLAY (CL) - Hard, grey, moist, some gravel, trace sand			CL	8-16-23	39	1-SS	18/18					0.1	
650.0	30.0	CLAYEY SILT (ML) - Very soft, grey, wet, some gravel, little sand			ML	15/16-10/3-50/1	50+	2-SS	18/18					0.1	4.5
650.0	35.0	Converted into monitoring well WB-MW-3R				9-45-50/4	50+	3-SS	18/18					0.1	0.25>

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Milwaukee		WI Unique Well # of Removed Well		Hicap #		Facility Name Community Within the Corridor Limited Partnership West Block					
Latitude / Longitude (see instructions) 43.068848 N -87.954686 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) 341333190					
1/4 SW or Gov't Lot #		1/4 NE		Section 13		Township 07 N		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring #	
Well Street Address 2727 North 32nd Street						Original Well Owner Roers Companies					
Well City, Village or Town Milwaukee						Present Well Owner Roers Companies					
Subdivision Name						Well ZIP Code 53210					
Mailing Address of Present Owner 110 Cheshire Lane #120						City of Present Owner Minnetonka		State MN		ZIP Code 55305	

3. Filled & Sealed Well / Drillhole / Borehole Information **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason for Removal from Service Damaged		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Casing left in place? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A							
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 05/05/2021		Was casing cut off below surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A							
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____							
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) 24		Casing Diameter (in.) 2		Lower Drillhole Diameter (in.) 8.25		Casing Depth (ft.) 23.75		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		Depth to Water (feet) Dry Well		For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry					

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8 Chipped Bentonite	0	24		

6. Comments

WB-MW-3

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Scott Klumb		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 07/19/2022	Date Received	Noted By
Street or Route 1102 Stewart Street			Telephone Number (608) 274-7600	Comments	
City Madison	State WI	ZIP Code 53713	Signature of Person Doing Work		Date Signed

SOIL BORING LOG

PROJECT NAME: West Block - CWC	GROUND SURFACE ELEVATION: 686.336	DATE BEGAN: 7/20/2022
DRILL EQUIP: Geoprobe 7822DT	NORTH: 396253.423	DATE FINISHED: 7/20/2022
DRILLER: Scott Klumb	EAST: 2546545.191	PROJECT NO: 40443A
DRILLING METHOD: HSA	CHECKED BY: Daniel Pelczar, CPG, PG	BORING NO: WB-MW-6
CONTRACTOR: Soil & Engineering Services, Inc.	FIELD ENGINEER: Alexander Huebner	

Elevation (FT)	Depth (FT)	Description	Graphic Profile	Graphic Well Profile	USCS	SPT Blows Per 6"	N-Value	Sample Number	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Percent Passing Sieve 200	Remarks/ PID	Qp (penetrometer, tsf)
685.0	0.0	TOPSOIL (10")			TOPS										
		FILL - Silty Clay (CL) - Stiff, brown, moist, trace gravel, sand, and organics			OIL FILL	1-1-2	3	1-SS	4/18					0.1	1
	5.0	FILL - Clayey Sand (SC) - Medium dense, reddish brown, moist, some gravel				10-12-12	24	2-SS	13/18					0.1	NA
680.0					FILL	10-14-14	28	3-SS	8/18					0.1	NA
	10.0	No Recovery (8.5' to 10')				5-7-6	13	4-SS	0/18						NR
675.0		SILTY CLAY (CL) - Stiff to very stiff, grey, moist, trace gravel				4-7-9	16	5-SS	18/18						4.5
	15.0					9-10-14	24	6-SS	18/18					0.1	2.5
670.0						4-7-8	15	7-SS	18/18					0.1	4
	20.0					5-7-9	16	8-SS	18/18					0.1	3
665.0					CL										
	25.0					3-5-6	11	9-SS	18/18					0.1	1.5
660.0															
	30.0	Silty seams noted				9-10-20/3	30	10-SS	18/18					0.1	4
655.0															
	35.0	Some gravel, trace sand			CL	10-12-15	27	11-SS	18/18					0.1	NA
650.0		Converted into monitoring well WB-MW-6													

ATTACHMENT C

Monitoring Well Construction and Development Forms

Facility/Project Name 40443A CWC	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name WB-MW-AR
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/>
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 07/20/2022 m m d d y y y y
Type of Well Well Code _____ / _____	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 Scott Klumb SES
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 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 checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Flushment
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Red Flint 40 Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Red Flint 40 Bentonite <input type="checkbox"/> 30 Other <input type="checkbox"/>
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	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
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Describe _____	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"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size Red Flint 15
E. Bentonite seal, top _____ ft. MSL or 2 ft.	a. _____
F. Fine sand, top _____ ft. MSL or 10 1/2 ft.	b. Volume added _____ ft ³
G. Filter pack, top _____ ft. MSL or 13 ft.	8. Filter pack material: Manufacturer, product name & mesh size Red Flint 40
H. Screen joint, top _____ ft. MSL or 15 ft.	a. _____
I. Well bottom _____ ft. MSL or 30 ft.	b. Volume added _____ ft ³
J. Filter pack, bottom _____ ft. MSL or 35 ft.	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"/>
K. Borehole, bottom _____ ft. MSL or 35 ft.	10. Screen material: PVC
L. Borehole, diameter 2 3/8 in.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
M. O.D. well casing 2 3/8 in.	b. Manufacturer Flite Products
N. I.D. well casing 2 in.	c. Slot size: Monoflex 0.01 in.
	d. Slotted length: 15 ft.
	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
	Red Flint 40

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature **David Har** Firm **KSnueh**

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.

Facility/Project Name 404M3A - CWC	Local Grid Location of Well ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W. _____	Well Name WB-MW-3R
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID _____	St. Plane _____ ft. N. _____ ft. E. S/C/N _____	Date Well Installed 02/10/2022 m m d d y y y y
Type of Well Well Code _____ / _____	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 Scott Klumb
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known
		Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

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

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

13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or **2'** ft.

F. Fine sand, top _____ ft. MSL or **15'6"** ft.

G. Filter pack, top _____ ft. MSL or **17 1/4"** ft.

H. Screen joint, top _____ ft. MSL or **20'** ft.

I. Well bottom _____ ft. MSL or **35'** ft.

J. Filter pack, bottom _____ ft. MSL or **37'** ft.

K. Borehole, bottom _____ ft. MSL or **37'** ft.

L. Borehole, diameter **6.25** in.

M. O.D. well casing **2 3/8** in.

N. I.D. well casing **2** in.

1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: **Fluoromount**

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe:
Red Flint 40 Bentonite 30
Other

5. Annular space seal: a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 35
c. _____ Lbs/gal mud weight Bentonite slurry 31
d. _____ % Bentonite Bentonite-cement grout 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal: a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. **Bed Flint 15**
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Flint 40**
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material: **PVC**
a. Screen type: Factory cut 11
Continuous slot 01
Other

b. Manufacturer **Hole Markets**
c. Slot size: **Monoflex** 0.01 in.
d. Slotted length: **15'**

11. Backfill material (below filter pack): None 14
Other

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

Signature **[Handwritten Signature]** Firm **K-Sonagh**

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.

Facility/Project Name 404434 CW	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name WB MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. DNR Well ID No.
Facility ID	Lat. " Long. " or	Date Well Installed 02/20/2022 m m d d y y y y
Type of Well	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 Scott Kumb SES
Well Code /	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	8 in.
D. Surface seal, bottom	ft. MSL or ft.	b. Length:	1 ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USCS classification of soil near screen:		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/>		If yes, describe:	Flushment
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"/>		3. Surface seal:	Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input checked="" type="checkbox"/>
Bedrock <input type="checkbox"/>		Red Flint 40	
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe:	Bentonite <input type="checkbox"/> 30 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"/>	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
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		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"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7. Fine sand material: Manufacturer, product name & mesh size	a. Red Flint 15
Describe		b. Volume added	ft ³
17. Source of water (attach analysis, if required):		8. Filter pack material: Manufacturer, product name & mesh size	a. Red Flint 40
		b. Volume added	ft ³
E. Bentonite seal, top	ft. MSL or 1 ft.	9. Well casing:	Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
F. Fine sand, top	ft. MSL or 17.7 ft.	10. Screen material:	PVC
G. Filter pack, top	ft. MSL or 18 ft.	a. Screen type:	Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
H. Screen joint, top	ft. MSL or 20 ft.	b. Manufacturer	Monoflex
I. Well bottom	ft. MSL or 35 ft.	c. Slot size:	0.01 in.
J. Filter pack, bottom	ft. MSL or 35 ft.	d. Slotted length:	15 ft.
K. Borehole, bottom	ft. MSL or 35 ft.	11. Backfill material (below filter pack):	None <input type="checkbox"/> 14 Other <input type="checkbox"/>
L. Borehole, diameter	in.		
M. O.D. well casing	2 3/8 in.		
N. I.D. well casing	2 in.		

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

Signature **[Signature]** Firm **K Singh**

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 <u>LWS-WB</u>	County Name	Well Name <u>MW-2R</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 3 min.

4. Depth of well (from top of well casing) 29.0 ft.

5. Inside diameter of well 20 in.

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

7. Volume of water removed from well 4.5 gal.

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

9. Source of water added _____

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

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>18.20</u> ft.	<u>24.10</u> ft.

Date

	Before Development	After Development
b.	<u>08/03/2022</u>	<u>08/04/2022</u>
	m m d d y y y y	m m d d y y y y

Time

	Before Development	After Development
c.	<u>9:15</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>9:23</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.

12. Sediment in well bottom _____ inches

13. Water clarity

	Before Development	After Development
Clear	<input type="checkbox"/> 10	<input type="checkbox"/> 20
Turbid	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 25
(Describe)	<u>Grey</u>	<u>Grey</u>

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

14. Total suspended solids _____ mg/l

15. COD _____ mg/l

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

First Name: Alex Last Name: Huebner
Firm: KSingh

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Alex Last Name: Huebner

Facility/Firm: KSingh

Street: 3636 N 124th St

City/State/Zip: Wauwatosa WI 53222

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

Signature: Alex Huebner

Print Name: Alexander Huebner

Firm: KSingh

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

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

Facility/Project Name <u>W3 CWC-WB</u>	County Name	Well Name <u>W3-MW-6</u>
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number
		DNR Well ID Number

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 5 min.

4. Depth of well (from top of well casing) 34.7 ft.

5. Inside diameter of well 2.0 in.

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

7. Volume of water removed from well 1.5 gal.

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

9. Source of water added _____

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

17. Additional comments on development:

11. Depth to Water (from top of well casing)

	Before Development	After Development
a.	<u>31.18</u> ft.	<u>34.7</u> ft.

Date b. 08/04/2022 0804/2022
m m d d y y y y m m d d y y y y

Time c. 10:55 a.m. p.m. 11:00 a.m. p.m.

12. Sediment in well bottom _____ inches _____ inches

13. Water clarity

	Clear <input type="checkbox"/> 10	Clear <input type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input checked="" type="checkbox"/> 25	
(Describe)	(Describe)	
<u>Light</u>	<u>Light</u>	
<u>Brown</u>	<u>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: Alex Last Name: Huebner
Firm: KSingh

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Alex Last Name: Huebner

Facility/Firm: KSingh

Street: 3636 W 124th St

City/State/Zip: Wauwatosa WI
53222

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

Signature: Alex Huebner

Print Name: Alexander Huebner

Firm: KSingh

ATTACHMENT D

Groundwater Analytical Results

ANALYTICAL REPORT

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

Laboratory Job ID: 500-220496-2
Client Project/Site: West Block CWC - 40443A

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

Attn: Mr. Robert Reineke



Authorized for release by:
8/23/2022 1:59:18 PM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.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: West Block CWC - 40443A

Job ID: 500-220496-2

Job ID: 500-220496-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-220496-2

Comments

No additional comments.

Receipt

The samples were received on 8/6/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.6° C.

GC/MS VOA

Method 8260B: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): WB-MW-2R (500-220496-1).

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 14-day holding time specified for preserved samples: WB-MW-2R (500-220496-1), WB-MW-6 (500-220496-3), DUPLICATE 1 (500-220496-6) and WB-MW-1 (500-220496-10).

Method 8260B: Reanalysis of the following sample(s) was performed outside of the analytical holding time. Upon review, sample had likely carryover from high sample before it. Sample was reanalyzed after hold time, and only compounds with carryover the first time have H flag. : DUPLICATE 1 (500-220496-6).

Method 8260B: The method blank for analytical batch 500-669702 contained several compounds 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 500-669702/6)

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

GC Semi VOA

Method 8082A: Surrogate DCB Decachlorobiphenyl recovery for the following sample was outside control limits: WB-MW-6 (500-220496-3). The other surrogate was within limits; therefore, re-analysis was not performed.

Method 8082A: Surrogate recovery for the following sample was outside control limits: WB-MW-2R (500-220496-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. Data with the highest surrogate recovery has been reported.

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: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-2R

Lab Sample ID: 500-220496-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.77	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.74	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L	1		8260B	Total/NA

Client Sample ID: WB-MW-4

Lab Sample ID: 500-220496-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.76	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
Naphthalene	0.68	J B	1.0	0.34	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.65	J B	1.0	0.39	ug/L	1		8260B	Total/NA
N-Propylbenzene	0.62	J B	1.0	0.41	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.66	J B	1.0	0.40	ug/L	1		8260B	Total/NA
Styrene	0.77	J	1.0	0.39	ug/L	1		8260B	Total/NA
Vinyl chloride	0.68	J	1.0	0.20	ug/L	1		8260B	Total/NA
Xylenes, Total	0.31	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: WB-MW-6

Lab Sample ID: 500-220496-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.74	J B	1.0	0.36	ug/L	1		8260B	Total/NA

Client Sample ID: DUPLICATE 1

Lab Sample ID: 500-220496-6

No Detections.

Client Sample ID: WB-MW-5

Lab Sample ID: 500-220496-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.77	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.63	J B	1.0	0.40	ug/L	1		8260B	Total/NA

Client Sample ID: WB-MW-1

Lab Sample ID: 500-220496-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.78	J B	1.0	0.36	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L	1		8260B	Total/NA
n-Butylbenzene	0.62	J B	1.0	0.39	ug/L	1		8260B	Total/NA
Toluene	0.18	J	0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.35	J	1.0	0.22	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-220496-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L	1		8260B	Total/NA
Ethylbenzene	0.38	J	0.50	0.18	ug/L	1		8260B	Total/NA
Xylenes, Total	2.6		1.0	0.22	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

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

Laboratory References:

EET CHI = Eurofins 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: West Block CWC - 40443A

Job ID: 500-220496-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-220496-1	WB-MW-2R	Ground Water	08/04/22 09:35	08/06/22 08:00
500-220496-2	WB-MW-4	Ground Water	08/04/22 10:40	08/06/22 08:00
500-220496-3	WB-MW-6	Ground Water	08/04/22 11:10	08/06/22 08:00
500-220496-6	DUPLICATE 1	Ground Water	08/04/22 00:00	08/06/22 08:00
500-220496-9	WB-MW-5	Ground Water	08/05/22 11:20	08/06/22 08:00
500-220496-10	WB-MW-1	Ground Water	08/05/22 11:25	08/06/22 08:00
500-220496-13	TRIP BLANK	Water	08/05/22 00:00	08/06/22 08:00

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-2R

Lab Sample ID: 500-220496-1

Date Collected: 08/04/22 09:35

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 15:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 15:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 15:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 15:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 15:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 15:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 15:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 15:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 15:14	1
1,2,4-Trimethylbenzene	0.77	J B	1.0	0.36	ug/L			08/12/22 15:14	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 15:14	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 15:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 15:14	1
1,3,5-Trimethylbenzene	0.79	J B	1.0	0.25	ug/L			08/12/22 15:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 15:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 15:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 15:14	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 15:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 15:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 15:14	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 15:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 15:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 15:14	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 15:14	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 15:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 15:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 15:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 15:14	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 15:14	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 15:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 15:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 15:14	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 15:14	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 15:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 15:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 15:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 15:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 15:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 15:14	1
Naphthalene	0.74	J B	1.0	0.34	ug/L			08/12/22 15:14	1
n-Butylbenzene	0.64	J B	1.0	0.39	ug/L			08/12/22 15:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 15:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 15:14	1

Eurofins Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-2R

Lab Sample ID: 500-220496-1

Date Collected: 08/04/22 09:35

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 15:14	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 15:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 15:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 15:14	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 15:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 15:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 15:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 15:14	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 15:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 15:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		75 - 126		08/12/22 15:14	1
4-Bromofluorobenzene (Surr)	93		72 - 124		08/12/22 15:14	1
Dibromofluoromethane (Surr)	93		75 - 120		08/12/22 15:14	1
Toluene-d8 (Surr)	90		75 - 120		08/12/22 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.066		0.39	0.066	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1221	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1232	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1242	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1248	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1254	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 10:40	1
PCB-1260	<0.069		0.39	0.069	ug/L		08/11/22 13:32	08/16/22 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	26	S1-	30 - 120	08/11/22 13:32	08/16/22 10:40	1
DCB Decachlorobiphenyl	22	S1-	30 - 140	08/11/22 13:32	08/16/22 10:40	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-4

Lab Sample ID: 500-220496-2

Date Collected: 08/04/22 10:40

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 15:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 15:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 15:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 15:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 15:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 15:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 15:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 15:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 15:41	1
1,2,4-Trimethylbenzene	0.76	J B	1.0	0.36	ug/L			08/12/22 15:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 15:41	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 15:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 15:41	1
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L			08/12/22 15:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 15:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 15:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 15:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 15:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 15:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 15:41	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 15:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 15:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 15:41	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 15:41	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 15:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 15:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 15:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 15:41	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 15:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 15:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 15:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 15:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 15:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 15:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 15:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 15:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 15:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 15:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 15:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 15:41	1
Naphthalene	0.68	J B	1.0	0.34	ug/L			08/12/22 15:41	1
n-Butylbenzene	0.65	J B	1.0	0.39	ug/L			08/12/22 15:41	1
N-Propylbenzene	0.62	J B	1.0	0.41	ug/L			08/12/22 15:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 15:41	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-4

Lab Sample ID: 500-220496-2

Date Collected: 08/04/22 10:40

Matrix: Ground Water

Date Received: 08/06/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.66	J B	1.0	0.40	ug/L			08/12/22 15:41	1
Styrene	0.77	J	1.0	0.39	ug/L			08/12/22 15:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 15:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 15:41	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 15:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 15:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 15:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 15:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 15:41	1
Vinyl chloride	0.68	J	1.0	0.20	ug/L			08/12/22 15:41	1
Xylenes, Total	0.31	J	1.0	0.22	ug/L			08/12/22 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		08/12/22 15:41	1
4-Bromofluorobenzene (Surr)	97		72 - 124		08/12/22 15:41	1
Dibromofluoromethane (Surr)	105		75 - 120		08/12/22 15:41	1
Toluene-d8 (Surr)	90		75 - 120		08/12/22 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.064		0.38	0.064	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1221	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1232	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1242	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1248	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1254	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 10:56	1
PCB-1260	<0.066		0.38	0.066	ug/L		08/11/22 13:32	08/16/22 10:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		30 - 120	08/11/22 13:32	08/16/22 10:56	1
DCB Decachlorobiphenyl	68		30 - 140	08/11/22 13:32	08/16/22 10:56	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-6

Lab Sample ID: 500-220496-3

Date Collected: 08/04/22 11:10

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 16:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 16:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 16:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 16:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 16:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 16:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 16:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 16:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 16:07	1
1,2,4-Trimethylbenzene	0.74	J B	1.0	0.36	ug/L			08/12/22 16:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 16:07	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 16:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 16:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/12/22 16:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 16:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 16:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 16:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 16:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 16:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 16:07	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 16:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 16:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 16:07	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 16:07	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 16:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 16:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 16:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 16:07	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 16:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 16:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 16:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 16:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 16:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 16:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 16:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 16:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 16:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 16:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 16:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 16:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 16:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 16:07	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-6

Lab Sample ID: 500-220496-3

Date Collected: 08/04/22 11:10

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 16:07	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 16:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 16:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 16:07	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 16:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 16:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 16:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 16:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 16:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 16:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		08/12/22 16:07	1
4-Bromofluorobenzene (Surr)	96		72 - 124		08/12/22 16:07	1
Dibromofluoromethane (Surr)	104		75 - 120		08/12/22 16:07	1
Toluene-d8 (Surr)	90		75 - 120		08/12/22 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.066		0.39	0.066	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1221	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1232	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1242	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1248	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1254	<0.20		0.39	0.20	ug/L		08/11/22 13:32	08/16/22 11:13	1
PCB-1260	<0.069		0.39	0.069	ug/L		08/11/22 13:32	08/16/22 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	30		30 - 120	08/11/22 13:32	08/16/22 11:13	1
DCB Decachlorobiphenyl	28	S1-	30 - 140	08/11/22 13:32	08/16/22 11:13	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: DUPLICATE 1

Lab Sample ID: 500-220496-6

Date Collected: 08/04/22 00:00

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 17:01	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 17:01	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 17:01	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 17:01	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 17:01	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 17:01	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 17:01	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 17:01	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 17:01	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 17:01	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 17:01	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 17:01	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:01	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 17:01	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:01	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 17:01	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 17:01	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 17:01	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 17:01	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 17:01	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:01	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 17:01	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 17:01	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 17:01	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 17:01	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 17:01	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 17:01	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 17:01	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 17:01	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 17:01	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 17:01	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 17:01	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 17:01	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 17:01	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 17:01	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 17:01	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 17:01	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 17:01	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:01	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 17:01	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 17:01	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 17:01	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 17:01	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: DUPLICATE 1

Lab Sample ID: 500-220496-6

Date Collected: 08/04/22 00:00

Matrix: Ground Water

Date Received: 08/06/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 17:01	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 17:01	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 17:01	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 17:01	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		08/12/22 17:01	1
4-Bromofluorobenzene (Surr)	102		72 - 124		08/12/22 17:01	1
Dibromofluoromethane (Surr)	108		75 - 120		08/12/22 17:01	1
Toluene-d8 (Surr)	88		75 - 120		08/12/22 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36	H	1.0	0.36	ug/L			08/22/22 20:25	1
1,3,5-Trimethylbenzene	<0.25	H	1.0	0.25	ug/L			08/22/22 20:25	1
Isopropylbenzene	<0.39	H	1.0	0.39	ug/L			08/22/22 20:25	1
N-Propylbenzene	<0.41	H	1.0	0.41	ug/L			08/22/22 20:25	1
p-Isopropyltoluene	<0.36	H	1.0	0.36	ug/L			08/22/22 20:25	1
Xylenes, Total	<0.22	H	1.0	0.22	ug/L			08/22/22 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		08/22/22 20:25	1
4-Bromofluorobenzene (Surr)	101		72 - 124		08/22/22 20:25	1
Dibromofluoromethane (Surr)	97		75 - 120		08/22/22 20:25	1
Toluene-d8 (Surr)	89		75 - 120		08/22/22 20:25	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-5

Lab Sample ID: 500-220496-9

Date Collected: 08/05/22 11:20

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 18:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 18:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 18:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 18:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 18:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 18:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 18:21	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 18:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 18:21	1
1,2,4-Trimethylbenzene	0.77	J B	1.0	0.36	ug/L			08/12/22 18:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 18:21	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 18:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 18:21	1
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L			08/12/22 18:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 18:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 18:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 18:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 18:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 18:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 18:21	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 18:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 18:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 18:21	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 18:21	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 18:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 18:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 18:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 18:21	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 18:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 18:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 18:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 18:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 18:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 18:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 18:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 18:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 18:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 18:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 18:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 18:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 18:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 18:21	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-5

Lab Sample ID: 500-220496-9

Date Collected: 08/05/22 11:20

Matrix: Ground Water

Date Received: 08/06/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	0.63	J B	1.0	0.40	ug/L			08/12/22 18:21	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 18:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 18:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 18:21	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 18:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 18:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 18:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 18:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 18:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 18:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		08/12/22 18:21	1
4-Bromofluorobenzene (Surr)	98		72 - 124		08/12/22 18:21	1
Dibromofluoromethane (Surr)	104		75 - 120		08/12/22 18:21	1
Toluene-d8 (Surr)	91		75 - 120		08/12/22 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.37	0.063	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1221	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1232	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1242	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1248	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1254	<0.19		0.37	0.19	ug/L		08/11/22 13:32	08/16/22 12:17	1
PCB-1260	<0.065		0.37	0.065	ug/L		08/11/22 13:32	08/16/22 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	46		30 - 120	08/11/22 13:32	08/16/22 12:17	1
DCB Decachlorobiphenyl	34		30 - 140	08/11/22 13:32	08/16/22 12:17	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-1

Lab Sample ID: 500-220496-10

Date Collected: 08/05/22 11:25

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 18:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 18:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 18:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 18:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 18:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 18:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 18:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 18:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 18:47	1
1,2,4-Trimethylbenzene	0.78	J B	1.0	0.36	ug/L			08/12/22 18:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 18:47	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 18:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 18:47	1
1,3,5-Trimethylbenzene	0.78	J B	1.0	0.25	ug/L			08/12/22 18:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 18:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 18:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 18:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 18:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 18:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 18:47	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 18:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 18:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 18:47	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 18:47	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 18:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 18:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 18:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 18:47	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 18:47	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 18:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 18:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 18:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 18:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 18:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 18:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 18:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 18:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 18:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 18:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 18:47	1
n-Butylbenzene	0.62	J B	1.0	0.39	ug/L			08/12/22 18:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 18:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 18:47	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-1

Lab Sample ID: 500-220496-10

Date Collected: 08/05/22 11:25

Matrix: Ground Water

Date Received: 08/06/22 08:00

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			08/12/22 18:47	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 18:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 18:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 18:47	1
Toluene	0.18	J	0.50	0.15	ug/L			08/12/22 18:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 18:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 18:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 18:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 18:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 18:47	1
Xylenes, Total	0.35	J	1.0	0.22	ug/L			08/12/22 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					08/12/22 18:47	1
4-Bromofluorobenzene (Surr)	97		72 - 124					08/12/22 18:47	1
Dibromofluoromethane (Surr)	107		75 - 120					08/12/22 18:47	1
Toluene-d8 (Surr)	91		75 - 120					08/12/22 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.064		0.38	0.064	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1221	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1232	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1242	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1248	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1254	<0.19		0.38	0.19	ug/L		08/11/22 13:32	08/16/22 12:33	1
PCB-1260	<0.067		0.38	0.067	ug/L		08/11/22 13:32	08/16/22 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		30 - 120				08/11/22 13:32	08/16/22 12:33	1
DCB Decachlorobiphenyl	34		30 - 140				08/11/22 13:32	08/16/22 12:33	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-220496-13

Date Collected: 08/05/22 00:00

Matrix: Water

Date Received: 08/06/22 08:00

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			08/12/22 20:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 20:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 20:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 20:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 20:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 20:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 20:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 20:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 20:07	1
1,2,4-Trimethylbenzene	0.72	J B	1.0	0.36	ug/L			08/12/22 20:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 20:07	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 20:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 20:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/12/22 20:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 20:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 20:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 20:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 20:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 20:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 20:07	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 20:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 20:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 20:07	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 20:07	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 20:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 20:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 20:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 20:07	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 20:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 20:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 20:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 20:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 20:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 20:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 20:07	1
Ethylbenzene	0.38	J	0.50	0.18	ug/L			08/12/22 20:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 20:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 20:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 20:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/12/22 20:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/12/22 20:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/12/22 20:07	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-220496-13

Date Collected: 08/05/22 00:00

Matrix: Water

Date Received: 08/06/22 08:00

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			08/12/22 20:07	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 20:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/12/22 20:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 20:07	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 20:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 20:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 20:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 20:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 20:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 20:07	1
Xylenes, Total	2.6		1.0	0.22	ug/L			08/12/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		08/12/22 20:07	1
4-Bromofluorobenzene (Surr)	100		72 - 124		08/12/22 20:07	1
Dibromofluoromethane (Surr)	105		75 - 120		08/12/22 20:07	1
Toluene-d8 (Surr)	91		75 - 120		08/12/22 20:07	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⊞	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: West Block CWC - 40443A

Job ID: 500-220496-2

GC/MS VOA

Analysis Batch: 669702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-1	WB-MW-2R	Total/NA	Ground Water	8260B	
500-220496-2	WB-MW-4	Total/NA	Ground Water	8260B	
500-220496-3	WB-MW-6	Total/NA	Ground Water	8260B	
500-220496-6	DUPLICATE 1	Total/NA	Ground Water	8260B	
500-220496-9	WB-MW-5	Total/NA	Ground Water	8260B	
500-220496-10	WB-MW-1	Total/NA	Ground Water	8260B	
500-220496-13	TRIP BLANK	Total/NA	Water	8260B	
MB 500-669702/6	Method Blank	Total/NA	Water	8260B	
LCS 500-669702/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 671031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-6 - RA	DUPLICATE 1	Total/NA	Ground Water	8260B	
MB 500-671031/6	Method Blank	Total/NA	Water	8260B	
LCS 500-671031/4	Lab Control Sample	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 669586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-1	WB-MW-2R	Total/NA	Ground Water	3510C	
500-220496-2	WB-MW-4	Total/NA	Ground Water	3510C	
500-220496-3	WB-MW-6	Total/NA	Ground Water	3510C	
500-220496-9	WB-MW-5	Total/NA	Ground Water	3510C	
500-220496-10	WB-MW-1	Total/NA	Ground Water	3510C	
MB 500-669586/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-669586/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-669586/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 670133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-220496-1	WB-MW-2R	Total/NA	Ground Water	8082A	669586
500-220496-2	WB-MW-4	Total/NA	Ground Water	8082A	669586
500-220496-3	WB-MW-6	Total/NA	Ground Water	8082A	669586
500-220496-9	WB-MW-5	Total/NA	Ground Water	8082A	669586
500-220496-10	WB-MW-1	Total/NA	Ground Water	8082A	669586
MB 500-669586/1-A	Method Blank	Total/NA	Water	8082A	669586
LCS 500-669586/2-A	Lab Control Sample	Total/NA	Water	8082A	669586
LCSD 500-669586/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	669586

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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)
500-220496-1	WB-MW-2R	79	93	93	90
500-220496-2	WB-MW-4	96	97	105	90
500-220496-3	WB-MW-6	95	96	104	90
500-220496-6	DUPLICATE 1	103	102	108	88
500-220496-6 - RA	DUPLICATE 1	107	101	97	89
500-220496-9	WB-MW-5	97	98	104	91
500-220496-10	WB-MW-1	97	97	107	91

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)
500-220496-13	TRIP BLANK	98	100	105	91
LCS 500-669702/4	Lab Control Sample	84	97	93	94
LCS 500-671031/4	Lab Control Sample	104	97	97	92
MB 500-669702/6	Method Blank	94	98	103	92
MB 500-671031/6	Method Blank	105	99	96	91

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (30-120)	DCBP2 (30-140)
500-220496-1	WB-MW-2R	26 S1-	22 S1-
500-220496-2	WB-MW-4	66	68
500-220496-3	WB-MW-6	30	28 S1-
500-220496-9	WB-MW-5	46	34
500-220496-10	WB-MW-1	45	34

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (30-120)	DCBP2 (30-140)
LCS 500-669586/2-A	Lab Control Sample	58	93
LCSD 500-669586/3-A	Lab Control Sample Dup	65	106
MB 500-669586/1-A	Method Blank	77	102

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

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

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: MB 500-669702/6
Matrix: Water
Analysis Batch: 669702

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			08/12/22 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/12/22 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/12/22 10:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/12/22 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/12/22 10:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/12/22 10:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/12/22 10:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/12/22 10:35	1
1,2,4-Trimethylbenzene	0.752	J	1.0	0.36	ug/L			08/12/22 10:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/12/22 10:35	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/12/22 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
1,3,5-Trimethylbenzene	0.791	J	1.0	0.25	ug/L			08/12/22 10:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/12/22 10:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/12/22 10:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/12/22 10:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
Benzene	<0.15		0.50	0.15	ug/L			08/12/22 10:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/12/22 10:35	1
Bromoform	<0.48		1.0	0.48	ug/L			08/12/22 10:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/12/22 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/12/22 10:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/12/22 10:35	1
Chloroform	<0.37		2.0	0.37	ug/L			08/12/22 10:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/12/22 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/12/22 10:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/12/22 10:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/12/22 10:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/12/22 10:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/12/22 10:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/12/22 10:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/12/22 10:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/12/22 10:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/12/22 10:35	1
Naphthalene	0.854	J	1.0	0.34	ug/L			08/12/22 10:35	1
n-Butylbenzene	0.657	J	1.0	0.39	ug/L			08/12/22 10:35	1
N-Propylbenzene	0.632	J	1.0	0.41	ug/L			08/12/22 10:35	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: MB 500-669702/6
Matrix: Water
Analysis Batch: 669702

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	0.753	J	1.0	0.36	ug/L			08/12/22 10:35	1
sec-Butylbenzene	0.655	J	1.0	0.40	ug/L			08/12/22 10:35	1
Styrene	<0.39		1.0	0.39	ug/L			08/12/22 10:35	1
tert-Butylbenzene	0.663	J	1.0	0.40	ug/L			08/12/22 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/12/22 10:35	1
Toluene	<0.15		0.50	0.15	ug/L			08/12/22 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/12/22 10:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/12/22 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/12/22 10:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/12/22 10:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/12/22 10:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/12/22 10:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	94		75 - 126		08/12/22 10:35	1
4-Bromofluorobenzene (Surr)	98		72 - 124		08/12/22 10:35	1
Dibromofluoromethane (Surr)	103		75 - 120		08/12/22 10:35	1
Toluene-d8 (Surr)	92		75 - 120		08/12/22 10:35	1

Lab Sample ID: LCS 500-669702/4
Matrix: Water
Analysis Batch: 669702

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	40.0	41.6		ug/L		104	70 - 125
1,1,1,2-Tetrachloroethane	40.0	36.6		ug/L		91	62 - 140
1,1,2-Trichloroethane	40.0	39.1		ug/L		98	71 - 130
1,1-Dichloroethane	40.0	40.1		ug/L		100	70 - 125
1,1-Dichloroethene	40.0	41.0		ug/L		102	67 - 122
1,1-Dichloropropene	40.0	41.7		ug/L		104	70 - 121
1,2,3-Trichlorobenzene	40.0	46.6		ug/L		116	51 - 145
1,2,3-Trichloropropane	40.0	37.1		ug/L		93	50 - 133
1,2,4-Trichlorobenzene	40.0	47.5		ug/L		119	57 - 137
1,2,4-Trimethylbenzene	40.0	41.2		ug/L		103	70 - 123
1,2-Dibromo-3-Chloropropane	40.0	34.1		ug/L		85	56 - 123
1,2-Dibromoethane (EDB)	40.0	37.4		ug/L		94	70 - 125
1,2-Dichlorobenzene	40.0	46.6		ug/L		116	70 - 125
1,2-Dichloroethane	40.0	39.2		ug/L		98	68 - 127
1,2-Dichloropropane	40.0	41.1		ug/L		103	67 - 130
1,3,5-Trimethylbenzene	40.0	41.0		ug/L		102	70 - 123
1,3-Dichlorobenzene	40.0	47.6		ug/L		119	70 - 125
1,3-Dichloropropane	40.0	38.1		ug/L		95	62 - 136
1,4-Dichlorobenzene	40.0	44.9		ug/L		112	70 - 120
2,2-Dichloropropane	40.0	41.3		ug/L		103	58 - 139
2-Chlorotoluene	40.0	44.2		ug/L		111	70 - 125
4-Chlorotoluene	40.0	44.7		ug/L		112	68 - 124
Benzene	40.0	40.2		ug/L		100	70 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: LCS 500-669702/4
Matrix: Water
Analysis Batch: 669702

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	40.0	48.2		ug/L		120	70 - 122
Bromochloromethane	40.0	41.4		ug/L		103	65 - 122
Dichlorobromomethane	40.0	41.0		ug/L		103	69 - 120
Bromoform	40.0	43.3		ug/L		108	56 - 132
Bromomethane	40.0	41.7		ug/L		104	40 - 152
Carbon tetrachloride	40.0	40.4		ug/L		101	59 - 133
Chlorobenzene	40.0	43.4		ug/L		108	70 - 120
Chloroethane	40.0	44.8		ug/L		112	48 - 136
Chloroform	40.0	38.6		ug/L		97	70 - 120
Chloromethane	40.0	44.1		ug/L		110	56 - 152
cis-1,2-Dichloroethene	40.0	41.6		ug/L		104	70 - 125
cis-1,3-Dichloropropene	40.0	34.6		ug/L		87	64 - 127
Dibromochloromethane	40.0	41.5		ug/L		104	68 - 125
Dibromomethane	40.0	38.3		ug/L		96	70 - 120
Dichlorodifluoromethane	40.0	39.3		ug/L		98	40 - 159
Ethylbenzene	40.0	45.1		ug/L		113	70 - 123
Hexachlorobutadiene	40.0	56.2		ug/L		141	51 - 150
Isopropylbenzene	40.0	40.1		ug/L		100	70 - 126
Methyl tert-butyl ether	40.0	31.9		ug/L		80	55 - 123
Methylene Chloride	40.0	37.9		ug/L		95	69 - 125
Naphthalene	40.0	36.0		ug/L		90	53 - 144
n-Butylbenzene	40.0	39.7		ug/L		99	68 - 125
N-Propylbenzene	40.0	40.2		ug/L		100	69 - 127
p-Isopropyltoluene	40.0	41.7		ug/L		104	70 - 125
sec-Butylbenzene	40.0	40.8		ug/L		102	70 - 123
Styrene	40.0	40.4		ug/L		101	70 - 120
tert-Butylbenzene	40.0	41.4		ug/L		103	70 - 121
Tetrachloroethene	40.0	48.4		ug/L		121	70 - 128
Toluene	40.0	43.4		ug/L		108	70 - 125
trans-1,2-Dichloroethene	40.0	41.6		ug/L		104	70 - 125
trans-1,3-Dichloropropene	40.0	34.4		ug/L		86	62 - 128
Trichloroethene	40.0	45.3		ug/L		113	70 - 125
Trichlorofluoromethane	40.0	41.2		ug/L		103	55 - 128
Vinyl chloride	40.0	43.5		ug/L		109	64 - 126
Xylenes, Total	80.0	82.3		ug/L		103	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		75 - 126
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-671031/6
Matrix: Water
Analysis Batch: 671031

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			08/22/22 11:30	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: MB 500-671031/6
Matrix: Water
Analysis Batch: 671031

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			08/22/22 11:30	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			08/22/22 11:30	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			08/22/22 11:30	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			08/22/22 11:30	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			08/22/22 11:30	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			08/22/22 11:30	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			08/22/22 11:30	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			08/22/22 11:30	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			08/22/22 11:30	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			08/22/22 11:30	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			08/22/22 11:30	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			08/22/22 11:30	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			08/22/22 11:30	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			08/22/22 11:30	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			08/22/22 11:30	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			08/22/22 11:30	1
Benzene	<0.15		0.50	0.15	ug/L			08/22/22 11:30	1
Bromobenzene	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			08/22/22 11:30	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			08/22/22 11:30	1
Bromoform	<0.48		1.0	0.48	ug/L			08/22/22 11:30	1
Bromomethane	<0.80		3.0	0.80	ug/L			08/22/22 11:30	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			08/22/22 11:30	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
Chloroethane	<0.51		1.0	0.51	ug/L			08/22/22 11:30	1
Chloroform	<0.37		2.0	0.37	ug/L			08/22/22 11:30	1
Chloromethane	<0.32		1.0	0.32	ug/L			08/22/22 11:30	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			08/22/22 11:30	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			08/22/22 11:30	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			08/22/22 11:30	1
Dibromomethane	<0.27		1.0	0.27	ug/L			08/22/22 11:30	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			08/22/22 11:30	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			08/22/22 11:30	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			08/22/22 11:30	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			08/22/22 11:30	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			08/22/22 11:30	1
Naphthalene	<0.34		1.0	0.34	ug/L			08/22/22 11:30	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			08/22/22 11:30	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			08/22/22 11:30	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			08/22/22 11:30	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: MB 500-671031/6
Matrix: Water
Analysis Batch: 671031

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			08/22/22 11:30	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			08/22/22 11:30	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			08/22/22 11:30	1
Toluene	<0.15		0.50	0.15	ug/L			08/22/22 11:30	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			08/22/22 11:30	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			08/22/22 11:30	1
Trichloroethene	<0.16		0.50	0.16	ug/L			08/22/22 11:30	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			08/22/22 11:30	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			08/22/22 11:30	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			08/22/22 11:30	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		08/22/22 11:30	1
4-Bromofluorobenzene (Surr)	99		72 - 124		08/22/22 11:30	1
Dibromofluoromethane (Surr)	96		75 - 120		08/22/22 11:30	1
Toluene-d8 (Surr)	91		75 - 120		08/22/22 11:30	1

Lab Sample ID: LCS 500-671031/4
Matrix: Water
Analysis Batch: 671031

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	50.8		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	41.9		ug/L		84	62 - 140
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	47.6		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	45.4		ug/L		91	67 - 122
1,1-Dichloropropene	50.0	48.8		ug/L		98	70 - 121
1,2,3-Trichlorobenzene	50.0	47.9		ug/L		96	51 - 145
1,2,3-Trichloropropane	50.0	42.8		ug/L		86	50 - 133
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	57 - 137
1,2,4-Trimethylbenzene	50.0	44.6		ug/L		89	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	40.7		ug/L		81	56 - 123
1,2-Dibromoethane (EDB)	50.0	43.5		ug/L		87	70 - 125
1,2-Dichlorobenzene	50.0	42.3		ug/L		85	70 - 125
1,2-Dichloroethane	50.0	51.0		ug/L		102	68 - 127
1,2-Dichloropropane	50.0	47.0		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	45.0		ug/L		90	70 - 123
1,3-Dichlorobenzene	50.0	43.4		ug/L		87	70 - 125
1,3-Dichloropropane	50.0	43.7		ug/L		87	62 - 136
1,4-Dichlorobenzene	50.0	42.6		ug/L		85	70 - 120
2,2-Dichloropropane	50.0	50.3		ug/L		101	58 - 139
2-Chlorotoluene	50.0	44.0		ug/L		88	70 - 125
4-Chlorotoluene	50.0	45.0		ug/L		90	68 - 124
Benzene	50.0	44.9		ug/L		90	70 - 120
Bromobenzene	50.0	44.3		ug/L		89	70 - 122
Bromochloromethane	50.0	45.7		ug/L		91	65 - 122

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: LCS 500-671031/4
Matrix: Water
Analysis Batch: 671031

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorobromomethane	50.0	46.9		ug/L		94	69 - 120
Bromoform	50.0	43.0		ug/L		86	56 - 132
Bromomethane	50.0	41.2		ug/L		82	40 - 152
Carbon tetrachloride	50.0	52.3		ug/L		105	59 - 133
Chlorobenzene	50.0	44.8		ug/L		90	70 - 120
Chloroethane	50.0	45.2		ug/L		90	48 - 136
Chloroform	50.0	49.9		ug/L		100	70 - 120
Chloromethane	50.0	37.3		ug/L		75	56 - 152
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	44.7		ug/L		89	64 - 127
Dibromochloromethane	50.0	43.2		ug/L		86	68 - 125
Dibromomethane	50.0	44.8		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	39.5		ug/L		79	40 - 159
Ethylbenzene	50.0	43.4		ug/L		87	70 - 123
Hexachlorobutadiene	50.0	49.6		ug/L		99	51 - 150
Isopropylbenzene	50.0	45.0		ug/L		90	70 - 126
Methyl tert-butyl ether	50.0	46.8		ug/L		94	55 - 123
Methylene Chloride	50.0	42.0		ug/L		84	69 - 125
Naphthalene	50.0	46.1		ug/L		92	53 - 144
n-Butylbenzene	50.0	44.9		ug/L		90	68 - 125
N-Propylbenzene	50.0	44.0		ug/L		88	69 - 127
p-Isopropyltoluene	50.0	46.3		ug/L		93	70 - 125
sec-Butylbenzene	50.0	45.1		ug/L		90	70 - 123
Styrene	50.0	43.8		ug/L		88	70 - 120
tert-Butylbenzene	50.0	46.7		ug/L		93	70 - 121
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 128
Toluene	50.0	45.7		ug/L		91	70 - 125
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
trans-1,3-Dichloropropene	50.0	44.0		ug/L		88	62 - 128
Trichloroethene	50.0	49.2		ug/L		98	70 - 125
Trichlorofluoromethane	50.0	51.3		ug/L		103	55 - 128
Vinyl chloride	50.0	42.2		ug/L		84	64 - 126
Xylenes, Total	100	88.5		ug/L		88	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 126
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	97		75 - 120
Toluene-d8 (Surr)	92		75 - 120

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

Lab Sample ID: MB 500-669586/1-A
Matrix: Water
Analysis Batch: 670133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669586

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1221	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

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

Lab Sample ID: MB 500-669586/1-A
Matrix: Water
Analysis Batch: 670133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669586

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1232	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1242	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1248	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1254	<0.20		0.40	0.20	ug/L		08/11/22 13:32	08/16/22 09:36	1
PCB-1260	<0.070		0.40	0.070	ug/L		08/11/22 13:32	08/16/22 09:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	77		30 - 120	08/11/22 13:32	08/16/22 09:36	1
DCB Decachlorobiphenyl	102		30 - 140	08/11/22 13:32	08/16/22 09:36	1

Lab Sample ID: LCS 500-669586/2-A
Matrix: Water
Analysis Batch: 670133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669586

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	4.00	2.65		ug/L		66	56 - 120
PCB-1260	4.00	3.32		ug/L		83	53 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	58		30 - 120
DCB Decachlorobiphenyl	93		30 - 140

Lab Sample ID: LCSD 500-669586/3-A
Matrix: Water
Analysis Batch: 670133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 669586

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
PCB-1016	4.00	2.95		ug/L		74	56 - 120	10	20
PCB-1260	4.00	3.60		ug/L		90	53 - 137	8	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	65		30 - 120
DCB Decachlorobiphenyl	106		30 - 140

Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-2R

Date Collected: 08/04/22 09:35

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 15:14
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 10:40

Client Sample ID: WB-MW-4

Date Collected: 08/04/22 10:40

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 15:41
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 10:56

Client Sample ID: WB-MW-6

Date Collected: 08/04/22 11:10

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 16:07
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 11:13

Client Sample ID: DUPLICATE 1

Date Collected: 08/04/22 00:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B	RA	1	671031	W1T	EET CHI	08/22/22 20:25
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 17:01

Client Sample ID: WB-MW-5

Date Collected: 08/05/22 11:20

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 18:21
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 12:17

Client Sample ID: WB-MW-1

Date Collected: 08/05/22 11:25

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 18:47

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Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Client Sample ID: WB-MW-1

Date Collected: 08/05/22 11:25

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			669586	FRG	EET CHI	08/11/22 13:32
Total/NA	Analysis	8082A		1	670133	SS	EET CHI	08/16/22 12:33

Client Sample ID: TRIP BLANK

Date Collected: 08/05/22 00:00

Date Received: 08/06/22 08:00

Lab Sample ID: 500-220496-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		1	669702	W1T	EET CHI	08/12/22 20:07

Laboratory References:

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

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: West Block CWC - 40443A

Job ID: 500-220496-2

Laboratory: Eurofins 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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Sample Collector(s) Alexander Huebner and Josh Schultz		Title Staff Engineer and Environmental Intern		Telephone # (incl. area code) (262) 821-1171		Report To Robert Reineke								
Property Owner West Block CWC		Property Address 33rd Street and West Center Ave, Milwaukee WI		Telephone # (incl. area code)		KSingh Project # 40443A								
I hereby certify that I received, properly, and disposed of the samples as noted below:				Laboratory Name Eurofins-TestAmerica										
Relinquished By (Signature) <i>[Signature]</i>		Date/Time 8/9/22, 11:20am		Received By (Signature)		Temperature Blank: 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.								
Relinquished By (Signature)		Date/Time		Received By (Signature)										
1 Specify groundwater (GW), soil (S), air (A), sludge (SL), surface water (SW), etc.				Sample Condition										
2 Sample description must clearly correlate the sample I.D. to the sampling location														
Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PCBs	# / Type of Container				Other Comment			
		Type (1)	Device				MeOH	HCL	H2SO4	Unpres.				
8/5/2022	11:20	GW	Bailer	WB-MW-5	X	X					3		2	
8/4/2022	11:10	GW	Bailer	WB-MW-6	X	X					3		2	
8/4/2022	10:40	GW	Bailer	WB-MW-4	X	X					3		2	
8/5/2022	11:25	GW	Bailer	WB-MW-1	X	X					3		2	
8/4/2022	9:35	GW	Bailer	WB-MW-2R	X	X					3		2	
8/4/2022	---	GW	Bailer	Duplicate 1	X						3			
8/5/2022	---	---	---	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 <input type="checkbox"/> Other (days)					Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By: _____ Signature _____									

Note: Please use this updated coc



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-220496-2

Login Number: 220496

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2,3.6
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	

