

June 6, 2022

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

**Project # 40449**

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

Dear Ms. Dorman:

On behalf of the Community Within the Corridor Limited Partnership (CWC), K. Singh & Associates, Inc. (KSingh) is pleased to submit the results of a 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.

Two groundwater monitoring wells were damaged during construction of the facility. MW-4R was a replacement stickup well which was damaged. The stick-up metal pipe was damaged, and the PVC plastic piping was cracked a bit on top. MW-4R was able to be sampled; however, pesticides and herbicides were not sampled since the well went dry. As reported within the Second Groundwater Monitoring Event (KSingh, February 21, 2022), MW-2 was damaged as the flushmount protective pipe cover had one bolt bent and the other two were stripped. As of March 24, 2022, KSingh field staff were able to remove the flushmount cover using hand power cutting tools, and this well was sampled on March 30, 2022. MW-1 has been dry since its installation back on May 5, 2021 and MW-3 was dry during this sampling event.

Groundwater sampling was conducted for four (3) of the six (6) monitoring wells on March 10, 2022 (MW-4R, MW-5 and MW-6) and March 30, 2022 (MW-2 and MW4R). These wells were sampled for the following parameters.

Well ID	VOCs	SVOCs	PAHs	PCBs	Metals	PFAs	Pesticides and Herbicides
MW-2	X		X	X			
MW-4R	X	X		X			1
MW-5	X		X	X	X		
MW-6	X		X	X	X	X	

Note: X – sampled and, 1 - not enough water to sample. MW-2 and MW-6 were also sampled for 1,4-Dioxane.

Prior to groundwater sampling, depth to water was measured in each monitoring well using a water level indicator and measuring from top of PVC casing. Nomenclature of Soil Probes and Monitoring Wells is summarized in Table 1 and Groundwater Elevation Data is summarized in Table 2. Groundwater flow could not be determined since two wells are perched (MW-2 and MW-5) and two are deep (MW4R and MW-6).

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

On the March 10, 2022, sampling event, there were no detections of VOCs in MW-4R, MW-5 and MW-6. On the March 30, 2022, sampling event, there were detections above the NR 140 Enforcement Standard (ES) of 5.0 ug/l which included benzene in MW-2 at 5.1 ug/l. Detections above the NR 140 Preventative Action Limits (PALs) included chloromethane at 3.1 ug/l and trichloroethene at 4.5 ug/l in MW-2.

Of the SVOCs, pentachlorophenol at 220 ug/l was above the NR 140 ES of 1 ug/l on the March 30, 2022, sampling event in MW-4R.

Of the PAHs, naphthalene at 12.0 J ug/l was above the NR 140 PAL of 10.0 ug/l in MW-2. In MW-6, benzo(a)pyrene at 0.21 ug/l was above the NR 140 ES of 0.2 ug/l, benzo(b)fluoranthene at 0.16 ug/l was above the NR 140 PAL of 0.02 ug/l, and chrysene at 0.14J ug/l was above the NR 140 PAL of 0.02 ug/l. There were no exceedances of PAHs in MW-5.

Of the PCBs, PCB-1254 was detected at 1.6 ug/l which was above the NR 140 ES of 0.003 ug/l at MW-2. There were no PCB detected in MW-4R, MW-5 and MW-6.

Of the PFAs, at MW-6 all of the parameters were below the laboratory's method detection limits.

1,4-Dioxane was detected at 10.0 ug/l in MW-2 which was above the NR 140 ES of 0.3 ug/l. In MW-6, 1,4-Dioxane was not detected above the laboratory's method detection limit.

Arsenic was exceeding the NR 140 PAL of 1 ug/l at 1.5 ug/l in MW-6 and selenium was exceeding the NR 140 PAL of 10 ug/l at 23 ug/l in MW-5, but was below the NR Enforcement Standard (ES) of 50 ug/l.

No chlorinated NR 140 ES exceedances are present in the southern portion of the property where manufacturing took place except for benzo(a)pyrene and arsenic in MW-6. Given that the groundwater table in monitoring well MW-6 within the building is 21 feet below ground surface, soil contamination appears confined to the top four feet below the building, and the building protects interior soil contamination from infiltration, the source of groundwater ES exceedance is likely related to spills near this well location from former manufacturing processes.

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

- MW-2 has been impacted with PVOCs, CVOCs, and PAHs which are residual groundwater contamination from the previous BRRTS files.

- 03-41-000793 (Jonas Construction – Closed LUST), this case was opened on June 8, 1990, and was closed on February 14, 2007, with continuing obligations, and
- 02-41-263675 (Formerly Wisconsin Industries Pension & Trust) in which this case was opened on January 11, 2001 and was closed on August 26, 2008 with continuing obligations.
- PCB-1254 was a new detect in this well above the NR 140 NR ES as that area had several electrical transformers within the past.
- Also, 1,4 - Dioxane was a new detect in this well. One use of 1,4-Dioxane is a stabilizer for chlorinated solvents which are present in MW-2.
- MW-3 was dry during this sampling event.
- MW-4R detected pentachlorophenol (PCP) exceeding the NR 140 ES which is located on the eastern portion of the site adjacent to the Railroad Right-of-Way. PCP is a localized railroad-based contaminant.
- MW-5 identified selenium exceedances above the NR 140 PAL, but below the NR 140 ES, KSingh plans to pursue an exemption request pursuant to NR 140.28.
- MW-6 identified arsenic exceedances above the NR 140 PAL, but below the NR 140 ES. As concentrations are between the NR 140 PAL and NR 140 ES, KSingh plans to pursue an exemption request pursuant to NR 140.28.
- The PFAs sample of MW-6 were all below the laboratory's method detection limits.
- The CVOC groundwater impacts remain confined to the northern one-third of the subject property and the southern two-thirds of the subject property have been free of CVOC which is consistent with the SIR groundwater data. CVOCs are related to BRRTS file # 02-41-263675 (Formerly Wisconsin Industries Pension & Trust).
- No NR 140 ES exceedances have been detected that are related to former industrial operations on the southern two-thirds of the site with the exception of benzo(a)pyrene which was just barely above the NR 140 ES on the March 10, 2022, groundwater sampling event.
- KSingh recommends an additional groundwater sampling event for this project.

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

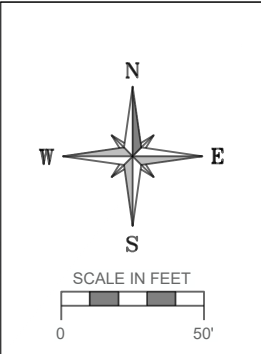
cc: Shane LaFave / Roers Companies  
Que El-Amin / Scott Crawford, Inc.

Attachments:

Figure 1	Site Location Map
Figure 2	Locations of Soil Probes, Monitoring Wells, Sub-Slab Vapor and Sub-Slab Soil Samples
Table 1	Nomenclature of Soil Probes and Monitoring Wells
Table 2	Groundwater Elevation Data
Table 3	Groundwater Quality Test Results
Attachment A	Groundwater Analytical Results

## FIGURES





**FLOOR FINISH LEGEND**

ATH-1	ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
ERF-1	EPOXY RESINIOUS FLOORING
EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
EXTG-WS	EXISTING CONCRETE SLAB WITH WEATHER SEAL
LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
PC-1	POLISHED CONCRETE
RF-1	RUBBER FLOORING
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**
- Planned Underground Plumbing
  - Underground Tunnel
  - Historic Soil Probe and Monitoring Well Locations
  - Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
  - ⊕ Monitoring Well Locations (6)
  - Soil Probe Locations (13)
  - Sub-Slab Soil Sampling Locations (28)
  - Sub-Slab Vapor Sampling Locations (51)
  - Air Sampling Locations (5)
  - Approximate Underground Storage Tank Location
- NOTE:**
- COMBINATION OF EXISTING AND PROPOSED PLUMBING

- |   |  |
|---|--|
| <span style="border: 1px solid black; padding: 2px;">AC</span> EX. AIR CONDITIONER          | <span style="color: yellow;">—</span> EX. UG. GAS              |
| <span style="color: yellow;">●</span> EX. GAS VALVE   | <span style="color: red;">—</span> EX. UG. ELECTRIC            |
| <span style="color: red;">⊕</span> EX. ELECTRIC METER                                       | <span style="color: red;">—</span> EX. OVERHEAD WIRES          |
| <span style="border: 1px solid black; padding: 2px;">EP</span> EX. ELECTRIC PEDESTAL        | <span style="color: red;">—</span> EX. BUREAU OF ELEC. SERV.   |
| <span style="border: 1px solid black; padding: 2px;">EM</span> EX. ELECTRIC MANHOLE         | <span style="color: green;">—</span> EX. UG. COMBINED SEWER    |
| <span style="border: 1px solid black; padding: 2px;">ET</span> EX. ELECTRIC TRANSFORMER     | <span style="color: green;">—</span> EX. CITY UG. CONDUIT/COMM |
| <span style="border: 1px solid black; padding: 2px;">PT</span> EX. POWER / TELEPHONE POLE   | <span style="color: green;">—</span> EX. SANITARY SEWER (SAN)  |
| <span style="border: 1px solid black; padding: 2px;">LP</span> EX. LIGHT POLE               | <span style="color: green;">—</span> EX. STORM SEWER (STO)     |
| <span style="border: 1px solid black; padding: 2px;">TP</span> EX. TELEPHONE PEDESTAL       | <span style="color: green;">—</span> EX. UG. COMMUNICATIONS    |
| <span style="border: 1px solid black; padding: 2px;">SM</span> EX. STORM MANHOLE            | <span style="color: green;">—</span> EX. UG. TELEPHONE         |
| <span style="border: 1px solid black; padding: 2px;">CBS</span> EX. CATCH BASIN SQUARE      | <span style="color: orange;">—</span> EX. UG. FIBER OPTICS     |
| <span style="color: green;">●</span> EX. CLEANOUT   | <span style="color: orange;">—</span> EX. UG. CABLE TELEVISION |
| <span style="border: 1px solid black; padding: 2px;">SMH</span> EX. SANITARY MANHOLE        | <span style="color: blue;">—</span> EX. WATER MAIN             |
| <span style="border: 1px solid black; padding: 2px;">UMH</span> EX. UNKNOWN MANHOLE         |  |
| <span style="border: 1px solid black; padding: 2px;">CSMH</span> EX. COMBINED SEWER MANHOLE |  |
| <span style="border: 1px solid black; padding: 2px;">TMH</span> EX. TELEPHONE MANHOLE       |  |
| <span style="color: blue;">⊕</span> EX. WATER VALVE   |  |
| <span style="color: blue;">⊕</span> EX. HYDRANT   |  |

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

CONSULTANT

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

CLIENT:  
COMMUNITY WITHIN THE CORRIDOR LIMITED  
PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

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

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

**FIGURE 2**

## TABLES



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

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

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

Well ID	Units	EB-MW-1	EB-MW-2	EB-MW-3	EB-MW-4	EB-MW-4R	EB-MW-5	EB-MW-6						
Date Installed	---	5/5/2021	6/3/2021	7/21/2021	7/21/2021	11/29/2021	6/3/2021	7/20/2021						
Ground Elevation	Feet	686.592	685.932	684.66	685.1	684.35	680.026	676.102						
TOC Elevation	Feet	689.625	685.512	687.727	688.074	686.60	682.848	675.713						
TOS Elevation	Feet	677.662	681.01	674.66	671.6	674.35	673.946	664.602						
BOS Elevation	Feet	662.662	666.01	664.66	656.60	659.35	663.94	649.60						
Screen Height	Feet	15	10	15	15	15	10	15						
DATE	DTW (TOC)	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION
5/18/2021	DRY	---	---	---	---	---	---	---	---	---	---	---	---	---
6/10/2021	DRY	---	---	---	---	---	---	---	---	---	---	---	---	---
6/22/2021	DRY	---	7.97	677.54	---	---	---	---	---	12.51	670.34	---	---	
6/30/2021	DRY	---	7.75	677.76	---	---	---	---	---	12.54	670.31	---	---	
7/20/2021	DRY	---	7.99	677.52	---	---	---	---	---	12.74	670.11	---	---	
7/29/2021	DRY	---	8.12	677.39	DRY	---	27.21	660.86	---	---	12.87	669.98	24.89	650.82
8/19/2021	DRY	---	7.85	677.66	22.44	665.29	Broken/Damaged		---	---	11.50	671.35	23.80	651.91
8/25/2021	DRY	---	---	---	22.44	665.29	Broken/Damaged		---	---	---	---	23.71	652.00
11/12/2021	DRY	---	Broken/Damaged		22.69	665.04	Abandoned		---	---	12.43	670.42	21.51	654.20
11/29/2021	DRY	---	Broken/Damaged		22.69	665.04	Abandoned		---	---	---	---	---	---
12/13/2021	DRY	---	Broken/Damaged		DRY	---	Abandoned		25.81	660.79	---	---	---	---
3/10/2022	DRY	---	Broken/Damaged		DRY	---	Abandoned		25.67	660.93	13.55	669.30	21.21	654.50

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

Sample Date	Units	EPA Method	NR 140 PAL	NR 140 ES	EB-B-18/MW-2	EB-B-18/MW-2	EB-MW-3	EB-B-20/MW-4	EB-B-20A/MW-4R	EB-B-20A/MW-4R	EB-B-20A/MW-4R	EB-B-21/MW-5	EB-B-21/MW-5	EB-B-21/MW-5	EB-B-27/MW-6	EB-B-27/MW-6	DUP-1 <sup>2</sup>	EB-B-27/MW-6	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank			
					6/30/2021	3/30/2022	11/29/2021	7/29/2021	12/14/2021	3/10/2022	3/30/2022	6/30/2021	11/12/2021	3/10/2022	8/25/2021	11/12/2021	11/12/2021	3/10/2022	6/30/2021	7/29/2021	8/25/2021	11/21/2021	11/29/2021	3/10/2022	3/30/2022				
<b>Volatile Organic Compounds (VOCs)</b>																													
1,1,1,2-Tetrachloroethane	ug/L	8260C	7	70	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	---	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,1,1-Trichloroethane	ug/L	8260C	40	200	10	3.5	1.1	<0.38	<0.38	<0.38	---	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,2,2-Tetrachloroethane	ug/L	8260C	0.02	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,1,2-Trichloroethane	ug/L	8260C	0.5	5	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	---	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
1,1-Dichloroethane	ug/L	8260C	85	850	32	14	330	<0.41	<0.41	<0.41	---	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloroethane	ug/L	8260C	0.7	7	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	---	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,1-Dichloropropene	ug/L	8260C	---	---	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	---	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2,3-Trichlorobenzene	ug/L	8260C	---	---	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	---	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,2,3-Trichloropropane	ug/L	8260C	12	60	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	---	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,2,4-Trichlorobenzene	ug/L	8260C	14	70	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	---	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2,4-Trichloropropane*	ug/L	8260C	96	480	350	48	<0.36	<0.36	<0.36	<0.36	---	0.45 J	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dibromo-3-Chloropropane	ug/L	8260C	0.02	0.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	---	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane	ug/L	8260C	0.005	0.05	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	---	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichlorobenzene	ug/L	8260C	60	600	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	---	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
1,2-Dichloroethane	ug/L	8260C	0.5	5	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	---	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichloropropane	ug/L	8260C	0.5	5	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
1,3,5-Trimethylbenzene*	ug/L	8260C	96	480	150	12	<0.25	<0.25	<0.25	<0.25	---	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,3-Dichlorobenzene	ug/L	8260C	60	600	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,3-Dichloropropane	ug/L	8260C	---	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,4-Dichlorobenzene	ug/L	8260C	15	75	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
2,2-Dichloropropane	ug/L	8260C	---	---	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	---	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
2-Chlorotoluene	ug/L	8260C	---	---	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	---	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
4-Chlorotoluene	ug/L	8260C	---	---	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	---	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Benzene	ug/L	8260C	0.5	5	5.7	5.1	<0.15	<0.15	<0.15	<0.15	---	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Bromobenzene	ug/L	8260C	---	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane	ug/L	8260C	---	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Bromodichloromethane	ug/L	8260C	0.06	0.6	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	---	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Bromoform	ug/L	8260C	0.44	4.4	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	---	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
Bromomethane	ug/L	8260C	1	10	<0.80 *	<0.80	<0.80	<0.80	<0.80	<0.80	---	<0.80 *	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Carbon tetrachloride	ug/L	8260C	0.5	5	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	---	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Chlorobenzene	ug/L	8260C	---	---	<0.39	5.6	<0.39	<0.39	<0.39	<0.51	---	<0.39	<0.39	<0.51	<0.39	<0.39	<0.39	<0.51	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Chloroethane	ug/L	8260C	80	400	10	<0.37	<0.51	<0.51	<0.51	<0.51	---	<0.37	<0.51	<0.51	<0.37	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
Chloroform	ug/L	8260C	0.6	6	<0.37	<0.32	<0.37	<0.37	<0.37	<0.32	---	<0.37	<0.37	<0.32	<0.37	<0.37	<0.37	<0.32	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloromethane	ug/L	8260C	3	30	<0.32	3.1	<0.32	<0																					



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

Sample Date	Units	EPA Method	NR 140 PAL	NR 140 ES	EB-B-18/MW-2 <sup>1</sup> 6/30/2021	EB-B-18/MW-2 3/30/2022	EB-MW-3 11/29/2021	EB-B-20/MW-4 7/29/2021	EB-B-20A/MW-4R 12/14/2021	EB-B-20A/MW-4R 3/10/2022	EB-B-20A/MW-4R 3/30/2022	EB-B-21/MW-5 6/30/2021	EB-B-21/MW-5 11/12/2021	EB-B-21/MW-5 3/10/2022	EB-B-27/MW-6 8/25/2021	EB-B-27/MW-6 11/12/2021	DUP-1 <sup>2</sup> 11/12/2021	EB-B-27/MW-6 3/10/2022	Trip Blank 6/30/2021	Trip Blank 7/29/2021	Trip Blank 8/25/2021	Trip Blank 11/21/2021	Trip Blank 11/29/2021	Trip Blank 3/10/2022	Trip Blank 3/30/2022	
<b>Per- and Polyfluoroalkyl Substances (PFAs)</b>																										
4:2 FTS	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.23	---	---	---	---	---	---	---	
6:2 FTS	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.4	---	---	---	---	---	---	---	
8:2 FTS	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.45	---	---	---	---	---	---	---	
DONA	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.39	---	---	---	---	---	---	---	
F-53B Major	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.23	---	---	---	---	---	---	---	
F-53B Minor	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.31	---	---	---	---	---	---	---	
HFPO-DA (GenX)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.5	---	---	---	---	---	---	---	
NEIFOSA	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.84	---	---	---	---	---	---	---	
NEIFOSAA	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.3	---	---	---	---	---	---	---	
NEIFOSE	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.82	---	---	---	---	---	---	---	
NMeFOSA	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.42	---	---	---	---	---	---	---	
NMeFOSAA	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.2	---	---	---	---	---	---	---	
NMeFOSE	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.4	---	---	---	---	---	---	---	
Perfluorobutanesulfonic acid (PFBS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.19	---	---	---	---	---	---	---	
Perfluorobutanoic acid (PFBA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2.3	---	---	---	---	---	---	---	
Perfluorodecanesulfonic acid (PFDS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.31	---	---	---	---	---	---	---	
Perfluorodecanoic acid (PFDA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.30	---	---	---	---	---	---	---	
Perfluorododecanesulfonic acid (PFDoS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.94	---	---	---	---	---	---	---	
Perfluorododecanoic acid (PFDoA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.53	---	---	---	---	---	---	---	
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.18	---	---	---	---	---	---	---	
Perfluoroheptanoic acid (PFHpA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.24	---	---	---	---	---	---	---	
Perfluorohexanesulfonic acid (PFHxS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.55	---	---	---	---	---	---	---	
Perfluorohexanoic acid (PFHxA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.56	---	---	---	---	---	---	---	
Perfluorononanesulfonic acid (PFNS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.36	---	---	---	---	---	---	---	
Perfluorononanoic acid (PFNA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	---	---	---	---	---	
Perfluorooctanesulfonamide (FOSA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.95	---	---	---	---	---	---	---	
Perfluorooctanesulfonic acid (PFOS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.52	---	---	---	---	---	---	---	
Perfluorooctanoic acid (PFOA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.82	---	---	---	---	---	---	---	
Perfluoropentanesulfonic acid (PFPeS)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.29	---	---	---	---	---	---	---	
Perfluoropentanoic acid (PFPeA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.48	---	---	---	---	---	---	---	
Perfluorotetradecanoic acid (PFTeA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.71	---	---	---	---	---	---	---	
Perfluorotridecanoic acid (PFTriA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.3	---	---	---	---	---	---	---	
Perfluoroundecanoic acid (PFUnA)	ng/L	537 (modified)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.1	---	---	---	---	---	---	---	
<b>Dissolved RCRA Metals</b>																										
Arsenic	ug/L	6020A	1	10	---	---	---	0.92 J	---	---	---	0.65 J	0.85 J	4.5 B	1.6	---	1.5	---	---	---	---	---	---	---	---	
Barium	ug/L	6020A	400	2000	---	---	---	140 B	---	---	---	150	120	150	49	---	30	---	---	---	---	---	---	---	---	
Cadmium	ug/L	6020A	0.5	5	---	---	---	<0.17	---	---	---	<0.17	<0.17	<0.17	<0.17	---	0.19 J	---	---	---	---	---	---	---	---	
Chromium	ug/L	6020A	10	100	---	---	---	<1.1	---	---	---	2.6 J	<1.1	<1.1	<1.1	---	<1.1	---	---	---	---	---	---	---	---	
Lead	ug/L	6020A	1.5	15	---	---	---	<0.19	---	---	---	1.3	<0.19	0.34 J B	0.21 J	---	<0.19	---	---	---	---	---	---	---	---	
Selenium	ug/L	6020A	10	50	---	---	---	4.8	---	---	---	26	23	2.5	<0.98	---	<0.98	---	---	---	---	---	---	---	---	
Silver	ug/L	6020A	10	50	---	---	---	<0.12	---	---	---	<0.12	<0.12	<0.12	<0.12	---	<0.12	---	---	---	---	---	---	---	---	
Mercury	ug/L	7470A	0.2	2	---	---	---	<0.098	---	---	---	<0.098	<0.098	<0.098	<0.098	---	<0.098	---	---	---	---	---	---	---	---	

Notes:

*Italics* = Exceeds NR 140 Preventive Action Limits (PAL)

**Bold** = Exceeds NR 140 Enforcement Limits (ES)

--- No Established Standards

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

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

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

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

B = Compound was found in the blank and sample

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

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

2 - Dup-1 is of MW-6

## ATTACHMENTS

**ATTACHMENT A**

Groundwater Analytical Results

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-213588-1

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

**For:**

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

Attn: Mr. Robert Reineke



Authorized for release by:  
3/28/2022 4:48:02 PM

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### LINKS

Review your project  
results through  
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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

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





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# Case Narrative

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

Job ID: 500-213588-1

---

## Job ID: 500-213588-1

---

### Laboratory: Eurofins Chicago

#### Narrative

---

#### Job Narrative 500-213588-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/15/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

#### GC/MS VOA

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

#### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-647638 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-647644 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

#### GC Semi VOA

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

#### Metals

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

#### LCMS

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

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-573559.

320-573559

Method: 3535 PFC-W

Method 3535: The following sample contained a thin layer of sediment at the bottom of the bottle prior to extraction: MW-6 (500-213588-3).  
320-573559

Method: 3535 PFC-W

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

# Detection Summary

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

Job ID: 500-213588-1

## Client Sample ID: MW-4R

Lab Sample ID: 500-213588-1

No Detections.

## Client Sample ID: MW-5

Lab Sample ID: 500-213588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.85	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	120		2.5	0.73	ug/L	1		6020A	Dissolved
Selenium	23		2.5	0.98	ug/L	1		6020A	Dissolved

## Client Sample ID: MW-6

Lab Sample ID: 500-213588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.16		0.15	0.043	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.21		0.15	0.075	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.16		0.15	0.061	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.14	J	0.15	0.049	ug/L	1		8270D	Total/NA
Chrysene	0.14	J	0.15	0.052	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.15	J	0.23	0.039	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.10	J	0.15	0.057	ug/L	1		8270D	Total/NA
Arsenic	1.5		1.0	0.23	ug/L	1		6020A	Dissolved
Barium	30		2.5	0.73	ug/L	1		6020A	Dissolved
Cadmium	0.19	J	0.50	0.17	ug/L	1		6020A	Dissolved

## Client Sample ID: Trip Blank

Lab Sample ID: 500-213588-4

No Detections.

This Detection Summary does not include radiochemical test results.

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# Method Summary

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

Job ID: 500-213588-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
FILTRATION	Sample Filtration	None	TAL CHI

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

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

Job ID: 500-213588-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213588-1	MW-4R	Water	03/10/22 14:00	03/15/22 10:05
500-213588-2	MW-5	Water	03/10/22 13:20	03/15/22 10:05
500-213588-3	MW-6	Water	03/10/22 12:35	03/15/22 10:05
500-213588-4	Trip Blank	Water	03/10/22 00:00	03/15/22 10:05

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-4R**

**Lab Sample ID: 500-213588-1**

**Date Collected: 03/10/22 14:00**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

**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			03/21/22 19:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/21/22 19:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/21/22 19:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/21/22 19:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/21/22 19:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/21/22 19:21	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/21/22 19:21	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/21/22 19:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/21/22 19:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/21/22 19:21	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/21/22 19:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/21/22 19:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/21/22 19:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/21/22 19:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/21/22 19:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/21/22 19:21	1
Benzene	<0.15		0.50	0.15	ug/L			03/21/22 19:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/21/22 19:21	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/21/22 19:21	1
Bromoform	<0.48		1.0	0.48	ug/L			03/21/22 19:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/21/22 19:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/21/22 19:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/21/22 19:21	1
Chloroform	<0.37		2.0	0.37	ug/L			03/21/22 19:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/21/22 19:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/21/22 19:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/21/22 19:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/21/22 19:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/21/22 19:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/21/22 19:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/21/22 19:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/21/22 19:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/21/22 19:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/21/22 19:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/21/22 19:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/21/22 19:21	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-4R**

**Lab Sample ID: 500-213588-1**

**Date Collected: 03/10/22 14:00**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:21	1
Styrene	<0.39		1.0	0.39	ug/L			03/21/22 19:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/21/22 19:21	1
Toluene	<0.15		0.50	0.15	ug/L			03/21/22 19:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/21/22 19:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/21/22 19:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/21/22 19:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/21/22 19:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/21/22 19:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/21/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 126		03/21/22 19:21	1
4-Bromofluorobenzene (Surr)	94		72 - 124		03/21/22 19:21	1
Dibromofluoromethane (Surr)	110		75 - 120		03/21/22 19:21	1
Toluene-d8 (Surr)	101		75 - 120		03/21/22 19:21	1

# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-5**  
**Date Collected: 03/10/22 13:20**  
**Date Received: 03/15/22 10:05**

**Lab Sample ID: 500-213588-2**  
**Matrix: Water**

**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			03/21/22 19:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/21/22 19:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/21/22 19:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/21/22 19:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/21/22 19:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/21/22 19:44	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/21/22 19:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/21/22 19:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/21/22 19:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/21/22 19:44	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/21/22 19:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/21/22 19:44	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/21/22 19:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/21/22 19:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/21/22 19:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/21/22 19:44	1
Benzene	<0.15		0.50	0.15	ug/L			03/21/22 19:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/21/22 19:44	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/21/22 19:44	1
Bromoform	<0.48		1.0	0.48	ug/L			03/21/22 19:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/21/22 19:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/21/22 19:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/21/22 19:44	1
Chloroform	<0.37		2.0	0.37	ug/L			03/21/22 19:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/21/22 19:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/21/22 19:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/21/22 19:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/21/22 19:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/21/22 19:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/21/22 19:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/21/22 19:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/21/22 19:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/21/22 19:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/21/22 19:44	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/21/22 19:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/21/22 19:44	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-5**  
**Date Collected: 03/10/22 13:20**  
**Date Received: 03/15/22 10:05**

**Lab Sample ID: 500-213588-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:44	1
Styrene	<0.39		1.0	0.39	ug/L			03/21/22 19:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 19:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/21/22 19:44	1
Toluene	<0.15		0.50	0.15	ug/L			03/21/22 19:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/21/22 19:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/21/22 19:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/21/22 19:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/21/22 19:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/21/22 19:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/21/22 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		03/21/22 19:44	1
4-Bromofluorobenzene (Surr)	105		72 - 124		03/21/22 19:44	1
Dibromofluoromethane (Surr)	95		75 - 120		03/21/22 19:44	1
Toluene-d8 (Surr)	104		75 - 120		03/21/22 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		03/17/22 11:24	03/18/22 17:44	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		03/17/22 11:24	03/18/22 17:44	1
Acenaphthene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 17:44	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		03/17/22 11:24	03/18/22 17:44	1
Anthracene	<0.25		0.76	0.25	ug/L		03/17/22 11:24	03/18/22 17:44	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		03/17/22 11:24	03/18/22 17:44	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		03/17/22 11:24	03/18/22 17:44	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		03/17/22 11:24	03/18/22 17:44	1
Benzo[g,h,i]perylene	<0.29		0.76	0.29	ug/L		03/17/22 11:24	03/18/22 17:44	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		03/17/22 11:24	03/18/22 17:44	1
Chrysene	<0.052		0.15	0.052	ug/L		03/17/22 11:24	03/18/22 17:44	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		03/17/22 11:24	03/18/22 17:44	1
Fluoranthene	<0.34		0.76	0.34	ug/L		03/17/22 11:24	03/18/22 17:44	1
Fluorene	<0.19		0.76	0.19	ug/L		03/17/22 11:24	03/18/22 17:44	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		03/17/22 11:24	03/18/22 17:44	1
Naphthalene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 17:44	1
Phenanthrene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 17:44	1
Pyrene	<0.32		0.76	0.32	ug/L		03/17/22 11:24	03/18/22 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		34 - 110	03/17/22 11:24	03/18/22 17:44	1
Nitrobenzene-d5 (Surr)	69		36 - 120	03/17/22 11:24	03/18/22 17:44	1
Terphenyl-d14 (Surr)	110		40 - 145	03/17/22 11:24	03/18/22 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		03/16/22 14:22	03/18/22 09:56	1
PCB-1221	<0.19		0.39	0.19	ug/L		03/16/22 14:22	03/18/22 09:56	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-5**

**Lab Sample ID: 500-213588-2**

**Date Collected: 03/10/22 13:20**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.39	0.19	ug/L		03/16/22 14:22	03/18/22 09:56	1
PCB-1242	<0.19		0.39	0.19	ug/L		03/16/22 14:22	03/18/22 09:56	1
PCB-1248	<0.19		0.39	0.19	ug/L		03/16/22 14:22	03/18/22 09:56	1
PCB-1254	<0.19		0.39	0.19	ug/L		03/16/22 14:22	03/18/22 09:56	1
PCB-1260	<0.068		0.39	0.068	ug/L		03/16/22 14:22	03/18/22 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		30 - 120	03/16/22 14:22	03/18/22 09:56	1
DCB Decachlorobiphenyl	72		30 - 140	03/16/22 14:22	03/18/22 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.85</b>	<b>J</b>	1.0	0.23	ug/L		03/25/22 08:30	03/25/22 16:17	1
<b>Barium</b>	<b>120</b>		2.5	0.73	ug/L		03/25/22 08:30	03/25/22 16:17	1
Cadmium	<0.17		0.50	0.17	ug/L		03/25/22 08:30	03/25/22 16:17	1
Chromium	<1.1		5.0	1.1	ug/L		03/25/22 08:30	03/25/22 16:17	1
Lead	<0.19		0.50	0.19	ug/L		03/25/22 08:30	03/25/22 16:17	1
<b>Selenium</b>	<b>23</b>		2.5	0.98	ug/L		03/25/22 08:30	03/25/22 16:17	1
Silver	<0.12		0.50	0.12	ug/L		03/25/22 08:30	03/25/22 16:17	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		03/24/22 10:35	03/25/22 10:01	1

# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-213588-3**

**Date Collected: 03/10/22 12:35**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

**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			03/21/22 20:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/21/22 20:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/21/22 20:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/21/22 20:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/21/22 20:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/21/22 20:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/21/22 20:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/21/22 20:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/21/22 20:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/21/22 20:07	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/21/22 20:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/21/22 20:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/21/22 20:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/21/22 20:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/21/22 20:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/21/22 20:07	1
Benzene	<0.15		0.50	0.15	ug/L			03/21/22 20:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/21/22 20:07	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/21/22 20:07	1
Bromoform	<0.48		1.0	0.48	ug/L			03/21/22 20:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/21/22 20:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/21/22 20:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/21/22 20:07	1
Chloroform	<0.37		2.0	0.37	ug/L			03/21/22 20:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/21/22 20:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/21/22 20:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/21/22 20:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/21/22 20:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/21/22 20:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/21/22 20:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/21/22 20:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/21/22 20:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/21/22 20:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/21/22 20:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/21/22 20:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/21/22 20:07	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-213588-3**

**Date Collected: 03/10/22 12:35**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:07	1
Styrene	<0.39		1.0	0.39	ug/L			03/21/22 20:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/21/22 20:07	1
Toluene	<0.15		0.50	0.15	ug/L			03/21/22 20:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/21/22 20:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/21/22 20:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/21/22 20:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/21/22 20:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/21/22 20:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/21/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		03/21/22 20:07	1
4-Bromofluorobenzene (Surr)	100		72 - 124		03/21/22 20:07	1
Dibromofluoromethane (Surr)	95		75 - 120		03/21/22 20:07	1
Toluene-d8 (Surr)	103		75 - 120		03/21/22 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		03/17/22 11:24	03/18/22 18:06	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		03/17/22 11:24	03/18/22 18:06	1
Acenaphthene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 18:06	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		03/17/22 11:24	03/18/22 18:06	1
Anthracene	<0.25		0.76	0.25	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Benzo[a]anthracene</b>	<b>0.16</b>		0.15	0.043	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Benzo[a]pyrene</b>	<b>0.21</b>		0.15	0.075	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Benzo[b]fluoranthene</b>	<b>0.16</b>		0.15	0.061	ug/L		03/17/22 11:24	03/18/22 18:06	1
Benzo[g,h,i]perylene	<0.28		0.76	0.28	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Benzo[k]fluoranthene</b>	<b>0.14 J</b>		0.15	0.049	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Chrysene</b>	<b>0.14 J</b>		0.15	0.052	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Dibenz(a,h)anthracene</b>	<b>0.15 J</b>		0.23	0.039	ug/L		03/17/22 11:24	03/18/22 18:06	1
Fluoranthene	<0.34		0.76	0.34	ug/L		03/17/22 11:24	03/18/22 18:06	1
Fluorene	<0.19		0.76	0.19	ug/L		03/17/22 11:24	03/18/22 18:06	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.10 J</b>		0.15	0.057	ug/L		03/17/22 11:24	03/18/22 18:06	1
Naphthalene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 18:06	1
Phenanthrene	<0.23		0.76	0.23	ug/L		03/17/22 11:24	03/18/22 18:06	1
Pyrene	<0.32		0.76	0.32	ug/L		03/17/22 11:24	03/18/22 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	60		34 - 110	03/17/22 11:24	03/18/22 18:06	1
Nitrobenzene-d5 (Surr)	61		36 - 120	03/17/22 11:24	03/18/22 18:06	1
Terphenyl-d14 (Surr)	96		40 - 145	03/17/22 11:24	03/18/22 18:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.38	0.063	ug/L		03/16/22 14:22	03/18/22 10:13	1
PCB-1221	<0.19		0.38	0.19	ug/L		03/16/22 14:22	03/18/22 10:13	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-213588-3**

**Date Collected: 03/10/22 12:35**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<0.19		0.38	0.19	ug/L		03/16/22 14:22	03/18/22 10:13	1
PCB-1242	<0.19		0.38	0.19	ug/L		03/16/22 14:22	03/18/22 10:13	1
PCB-1248	<0.19		0.38	0.19	ug/L		03/16/22 14:22	03/18/22 10:13	1
PCB-1254	<0.19		0.38	0.19	ug/L		03/16/22 14:22	03/18/22 10:13	1
PCB-1260	<0.066		0.38	0.066	ug/L		03/16/22 14:22	03/18/22 10:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		30 - 120	03/16/22 14:22	03/18/22 10:13	1
DCB Decachlorobiphenyl	78		30 - 140	03/16/22 14:22	03/18/22 10:13	1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluoropentanoic acid (PFPeA)	<0.48		1.9	0.48	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorotridecanoic acid (PFTriA)	<1.3		1.9	1.3	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		03/17/22 05:01	03/20/22 14:38	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		03/17/22 05:01	03/20/22 14:38	1
NEtFOSA	<0.84		1.9	0.84	ng/L		03/17/22 05:01	03/20/22 14:38	1
NMeFOSA	<0.42		1.9	0.42	ng/L		03/17/22 05:01	03/20/22 14:38	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		03/17/22 05:01	03/20/22 14:38	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		03/17/22 05:01	03/20/22 14:38	1
NMeFOSE	<1.4		3.9	1.4	ng/L		03/17/22 05:01	03/20/22 14:38	1
NEtFOSE	<0.82		1.9	0.82	ng/L		03/17/22 05:01	03/20/22 14:38	1
4:2 FTS	<0.23		1.9	0.23	ng/L		03/17/22 05:01	03/20/22 14:38	1
6:2 FTS	<2.4		4.8	2.4	ng/L		03/17/22 05:01	03/20/22 14:38	1
8:2 FTS	<0.45		1.9	0.45	ng/L		03/17/22 05:01	03/20/22 14:38	1
DONA	<0.39		1.9	0.39	ng/L		03/17/22 05:01	03/20/22 14:38	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		03/17/22 05:01	03/20/22 14:38	1
F-53B Major	<0.23		1.9	0.23	ng/L		03/17/22 05:01	03/20/22 14:38	1
F-53B Minor	<0.31		1.9	0.31	ng/L		03/17/22 05:01	03/20/22 14:38	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: MW-6**

**Lab Sample ID: 500-213588-3**

**Date Collected: 03/10/22 12:35**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C5 PFPeA	77		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 PFHxA	85		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C4 PFHpA	89		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C4 PFOA	81		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C5 PFNA	87		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 PFDA	83		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 PFUnA	81		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 PFDoA	77		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 PFTeDA	71		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C3 PFBS	78		25 - 150	03/17/22 05:01	03/20/22 14:38	1
18O2 PFHxS	86		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C4 PFOS	85		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C8 FOSA	94		10 - 150	03/17/22 05:01	03/20/22 14:38	1
d3-NMeFOSAA	83		25 - 150	03/17/22 05:01	03/20/22 14:38	1
d5-NEtFOSAA	91		25 - 150	03/17/22 05:01	03/20/22 14:38	1
d-N-MeFOSA-M	69		10 - 150	03/17/22 05:01	03/20/22 14:38	1
d-N-EtFOSA-M	72		10 - 150	03/17/22 05:01	03/20/22 14:38	1
d7-N-MeFOSE-M	76		10 - 150	03/17/22 05:01	03/20/22 14:38	1
d9-N-EtFOSE-M	74		10 - 150	03/17/22 05:01	03/20/22 14:38	1
M2-4:2 FTS	92		25 - 150	03/17/22 05:01	03/20/22 14:38	1
M2-6:2 FTS	105		25 - 150	03/17/22 05:01	03/20/22 14:38	1
M2-8:2 FTS	100		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C3 HFPO-DA	78		25 - 150	03/17/22 05:01	03/20/22 14:38	1
13C2 10:2 FTS	95		25 - 150	03/17/22 05:01	03/20/22 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		1.0	0.23	ug/L		03/25/22 08:30	03/25/22 16:20	1
Barium	30		2.5	0.73	ug/L		03/25/22 08:30	03/25/22 16:20	1
Cadmium	0.19	J	0.50	0.17	ug/L		03/25/22 08:30	03/25/22 16:20	1
Chromium	<1.1		5.0	1.1	ug/L		03/25/22 08:30	03/25/22 16:20	1
Lead	<0.19		0.50	0.19	ug/L		03/25/22 08:30	03/25/22 16:20	1
Selenium	<0.98		2.5	0.98	ug/L		03/25/22 08:30	03/25/22 16:20	1
Silver	<0.12		0.50	0.12	ug/L		03/25/22 08:30	03/25/22 16:20	1

**Method: 7470A - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		03/24/22 10:35	03/25/22 10:08	1

# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-213588-4**

**Date Collected: 03/10/22 00:00**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

**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			03/21/22 20:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/21/22 20:31	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/21/22 20:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/21/22 20:31	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/21/22 20:31	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/21/22 20:31	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/21/22 20:31	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/21/22 20:31	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/21/22 20:31	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/21/22 20:31	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/21/22 20:31	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/21/22 20:31	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/21/22 20:31	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:31	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/21/22 20:31	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/21/22 20:31	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/21/22 20:31	1
Benzene	<0.15		0.50	0.15	ug/L			03/21/22 20:31	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/21/22 20:31	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/21/22 20:31	1
Bromoform	<0.48		1.0	0.48	ug/L			03/21/22 20:31	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/21/22 20:31	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/21/22 20:31	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/21/22 20:31	1
Chloroform	<0.37		2.0	0.37	ug/L			03/21/22 20:31	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/21/22 20:31	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/21/22 20:31	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/21/22 20:31	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/21/22 20:31	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/21/22 20:31	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/21/22 20:31	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/21/22 20:31	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/21/22 20:31	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/21/22 20:31	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/21/22 20:31	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/21/22 20:31	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/21/22 20:31	1

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# Client Sample Results

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

Job ID: 500-213588-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-213588-4**

**Date Collected: 03/10/22 00:00**

**Matrix: Water**

**Date Received: 03/15/22 10:05**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:31	1
Styrene	<0.39		1.0	0.39	ug/L			03/21/22 20:31	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 20:31	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/21/22 20:31	1
Toluene	<0.15		0.50	0.15	ug/L			03/21/22 20:31	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/21/22 20:31	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/21/22 20:31	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/21/22 20:31	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/21/22 20:31	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/21/22 20:31	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/21/22 20:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		03/21/22 20:31	1
4-Bromofluorobenzene (Surr)	99		72 - 124		03/21/22 20:31	1
Dibromofluoromethane (Surr)	96		75 - 120		03/21/22 20:31	1
Toluene-d8 (Surr)	103		75 - 120		03/21/22 20:31	1



# Definitions/Glossary

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

Job ID: 500-213588-1

## Qualifiers

### GC/MS Semi VOA

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

### Metals

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-213588-1

## GC/MS VOA

### Analysis Batch: 647906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-1	MW-4R	Total/NA	Water	8260B	
500-213588-2	MW-5	Total/NA	Water	8260B	
500-213588-3	MW-6	Total/NA	Water	8260B	
500-213588-4	Trip Blank	Total/NA	Water	8260B	
MB 500-647906/7	Method Blank	Total/NA	Water	8260B	
LCS 500-647906/5	Lab Control Sample	Total/NA	Water	8260B	

## GC/MS Semi VOA

### Prep Batch: 647549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Total/NA	Water	3510C	
500-213588-3	MW-6	Total/NA	Water	3510C	
MB 500-647549/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-647549/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 647638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Total/NA	Water	8270D	647549
500-213588-3	MW-6	Total/NA	Water	8270D	647549

### Analysis Batch: 647644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-647549/1-A	Method Blank	Total/NA	Water	8270D	647549
LCS 500-647549/2-A	Lab Control Sample	Total/NA	Water	8270D	647549

## GC Semi VOA

### Prep Batch: 647344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Total/NA	Water	3510C	
500-213588-3	MW-6	Total/NA	Water	3510C	
MB 500-647344/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-647344/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-647344/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 647666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Total/NA	Water	8082A	647344
500-213588-3	MW-6	Total/NA	Water	8082A	647344
MB 500-647344/1-A	Method Blank	Total/NA	Water	8082A	647344
LCS 500-647344/4-A	Lab Control Sample	Total/NA	Water	8082A	647344
LCSD 500-647344/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	647344

## LCMS

### Prep Batch: 573559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-3	MW-6	Total/NA	Water	3535	
MB 320-573559/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-573559/2-A	Lab Control Sample	Total/NA	Water	3535	

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# QC Association Summary

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

Job ID: 500-213588-1

## LCMS (Continued)

### Prep Batch: 573559 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-573559/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 574444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-3	MW-6	Total/NA	Water	537 (modified)	573559
MB 320-573559/1-A	Method Blank	Total/NA	Water	537 (modified)	573559
LCS 320-573559/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	573559
LCSD 320-573559/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	573559

## Metals

### Filtration Batch: 648596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Dissolved	Water	FILTRATION	
500-213588-3	MW-6	Dissolved	Water	FILTRATION	
MB 500-648596/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 500-648596/1-C	Method Blank	Dissolved	Water	FILTRATION	

### Prep Batch: 648615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Dissolved	Water	7470A	648596
500-213588-3	MW-6	Dissolved	Water	7470A	648596
MB 500-648596/1-B	Method Blank	Dissolved	Water	7470A	648596
MB 500-648615/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-648615/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 648758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Dissolved	Water	3005A	648596
500-213588-3	MW-6	Dissolved	Water	3005A	648596
MB 500-648596/1-C	Method Blank	Dissolved	Water	3005A	648596
LCS 500-648758/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 648839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Dissolved	Water	7470A	648615
500-213588-3	MW-6	Dissolved	Water	7470A	648615
MB 500-648596/1-B	Method Blank	Dissolved	Water	7470A	648615
MB 500-648615/12-A	Method Blank	Total/NA	Water	7470A	648615
LCS 500-648615/13-A	Lab Control Sample	Total/NA	Water	7470A	648615

### Analysis Batch: 648995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213588-2	MW-5	Dissolved	Water	6020A	648758
500-213588-3	MW-6	Dissolved	Water	6020A	648758
MB 500-648596/1-C	Method Blank	Dissolved	Water	6020A	648758
LCS 500-648758/2-A	Lab Control Sample	Total Recoverable	Water	6020A	648758

# Surrogate Summary

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

Job ID: 500-213588-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-213588-1	MW-4R	99	94	110	101
500-213588-2	MW-5	96	105	95	104
500-213588-3	MW-6	96	100	95	103
500-213588-4	Trip Blank	97	99	96	103
LCS 500-647906/5	Lab Control Sample	94	106	93	106
MB 500-647906/7	Method Blank	96	100	96	103

### 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: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (34-110)	NBZ (36-120)	TPHL (40-145)
500-213588-2	MW-5	70	69	110
500-213588-3	MW-6	60	61	96
LCS 500-647549/2-A	Lab Control Sample	83	94	109
MB 500-647549/1-A	Method Blank	62	63	110

### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (30-120)	DCBP2 (30-140)
500-213588-2	MW-5	80	72
500-213588-3	MW-6	73	78
LCS 500-647344/4-A	Lab Control Sample	92	116
LCSD 500-647344/5-A	Lab Control Sample Dup	86	119
MB 500-647344/1-A	Method Blank	87	114

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# QC Sample Results

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

Job ID: 500-213588-1

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

Lab Sample ID: MB 500-647906/7

Matrix: Water

Analysis Batch: 647906

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			03/21/22 12:06	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/21/22 12:06	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/21/22 12:06	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/21/22 12:06	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/21/22 12:06	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/21/22 12:06	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/21/22 12:06	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/21/22 12:06	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/21/22 12:06	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/21/22 12:06	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/21/22 12:06	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/21/22 12:06	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/21/22 12:06	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/21/22 12:06	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/21/22 12:06	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/21/22 12:06	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/21/22 12:06	1
Benzene	<0.15		0.50	0.15	ug/L			03/21/22 12:06	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/21/22 12:06	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/21/22 12:06	1
Bromoform	<0.48		1.0	0.48	ug/L			03/21/22 12:06	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/21/22 12:06	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/21/22 12:06	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/21/22 12:06	1
Chloroform	<0.37		2.0	0.37	ug/L			03/21/22 12:06	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/21/22 12:06	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/21/22 12:06	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/21/22 12:06	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/21/22 12:06	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/21/22 12:06	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/21/22 12:06	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/21/22 12:06	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/21/22 12:06	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/21/22 12:06	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/21/22 12:06	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/21/22 12:06	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1

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# QC Sample Results

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

Job ID: 500-213588-1

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

Lab Sample ID: MB 500-647906/7

Matrix: Water

Analysis Batch: 647906

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/21/22 12:06	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 12:06	1
Styrene	<0.39		1.0	0.39	ug/L			03/21/22 12:06	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/21/22 12:06	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/21/22 12:06	1
Toluene	<0.15		0.50	0.15	ug/L			03/21/22 12:06	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/21/22 12:06	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/21/22 12:06	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/21/22 12:06	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/21/22 12:06	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/21/22 12:06	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/21/22 12:06	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		75 - 126		03/21/22 12:06	1
4-Bromofluorobenzene (Surr)	100		72 - 124		03/21/22 12:06	1
Dibromofluoromethane (Surr)	96		75 - 120		03/21/22 12:06	1
Toluene-d8 (Surr)	103		75 - 120		03/21/22 12:06	1

Lab Sample ID: LCS 500-647906/5

Matrix: Water

Analysis Batch: 647906

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	43.5		ug/L		87	70 - 125
1,1,1,2-Tetrachloroethane	50.0	59.8		ug/L		120	62 - 140
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	71 - 130
1,1-Dichloroethane	50.0	46.6		ug/L		93	70 - 125
1,1-Dichloroethene	50.0	46.5		ug/L		93	67 - 122
1,1-Dichloropropene	50.0	48.0		ug/L		96	70 - 121
1,2,3-Trichlorobenzene	50.0	51.8		ug/L		104	51 - 145
1,2,3-Trichloropropane	50.0	55.8		ug/L		112	50 - 133
1,2,4-Trichlorobenzene	50.0	46.7		ug/L		93	57 - 137
1,2,4-Trimethylbenzene	50.0	49.0		ug/L		98	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/L		109	56 - 123
1,2-Dibromoethane (EDB)	50.0	47.3		ug/L		95	70 - 125
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,2-Dichloropropane	50.0	47.2		ug/L		94	67 - 130
1,3,5-Trimethylbenzene	50.0	50.4		ug/L		101	70 - 123
1,3-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	50.2		ug/L		100	62 - 136
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	70 - 120
2,2-Dichloropropane	50.0	41.9		ug/L		84	58 - 139
2-Chlorotoluene	50.0	50.6		ug/L		101	70 - 125

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# QC Sample Results

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

Job ID: 500-213588-1

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

**Lab Sample ID: LCS 500-647906/5**

**Matrix: Water**

**Analysis Batch: 647906**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	50.0		ug/L		100	68 - 124
Benzene	50.0	46.6		ug/L		93	70 - 120
Bromobenzene	50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	50.0	43.3		ug/L		87	65 - 122
Dichlorobromomethane	50.0	42.9		ug/L		86	69 - 120
Bromoform	50.0	43.3		ug/L		87	56 - 132
Bromomethane	50.0	59.8		ug/L		120	40 - 152
Carbon tetrachloride	50.0	43.8		ug/L		88	59 - 133
Chlorobenzene	50.0	46.6		ug/L		93	70 - 120
Chloroethane	50.0	39.7		ug/L		79	48 - 136
Chloroform	50.0	43.1		ug/L		86	70 - 120
Chloromethane	50.0	44.8		ug/L		90	56 - 152
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	64 - 127
Dibromochloromethane	50.0	44.9		ug/L		90	68 - 125
Dibromomethane	50.0	47.3		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	41.3		ug/L		83	40 - 159
Ethylbenzene	50.0	45.9		ug/L		92	70 - 123
Hexachlorobutadiene	50.0	42.1		ug/L		84	51 - 150
Isopropylbenzene	50.0	53.6		ug/L		107	70 - 126
Methyl tert-butyl ether	50.0	40.7		ug/L		81	55 - 123
Methylene Chloride	50.0	46.1		ug/L		92	69 - 125
Naphthalene	50.0	54.3		ug/L		109	53 - 144
n-Butylbenzene	50.0	49.4		ug/L		99	68 - 125
N-Propylbenzene	50.0	53.8		ug/L		108	69 - 127
p-Isopropyltoluene	50.0	48.9		ug/L		98	70 - 125
sec-Butylbenzene	50.0	51.1		ug/L		102	70 - 123
Styrene	50.0	43.4		ug/L		87	70 - 120
tert-Butylbenzene	50.0	52.6		ug/L		105	70 - 121
Tetrachloroethene	50.0	46.9		ug/L		94	70 - 128
Toluene	50.0	50.7		ug/L		101	70 - 125
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
trans-1,3-Dichloropropene	50.0	47.1		ug/L		94	62 - 128
Trichloroethene	50.0	46.0		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	43.4		ug/L		87	55 - 128
Vinyl chloride	50.0	44.0		ug/L		88	64 - 126
Xylenes, Total	100	86.9		ug/L		87	70 - 125

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

# QC Sample Results

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

Job ID: 500-213588-1

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

**Lab Sample ID: MB 500-647549/1-A**  
**Matrix: Water**  
**Analysis Batch: 647644**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 647549**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		03/17/22 11:24	03/18/22 11:43	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		03/17/22 11:24	03/18/22 11:43	1
Acenaphthene	<0.25		0.80	0.25	ug/L		03/17/22 11:24	03/18/22 11:43	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		03/17/22 11:24	03/18/22 11:43	1
Anthracene	<0.27		0.80	0.27	ug/L		03/17/22 11:24	03/18/22 11:43	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		03/17/22 11:24	03/18/22 11:43	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		03/17/22 11:24	03/18/22 11:43	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		03/17/22 11:24	03/18/22 11:43	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		03/17/22 11:24	03/18/22 11:43	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		03/17/22 11:24	03/18/22 11:43	1
Chrysene	<0.055		0.16	0.055	ug/L		03/17/22 11:24	03/18/22 11:43	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		03/17/22 11:24	03/18/22 11:43	1
Fluoranthene	<0.36		0.80	0.36	ug/L		03/17/22 11:24	03/18/22 11:43	1
Fluorene	<0.20		0.80	0.20	ug/L		03/17/22 11:24	03/18/22 11:43	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		03/17/22 11:24	03/18/22 11:43	1
Naphthalene	<0.25		0.80	0.25	ug/L		03/17/22 11:24	03/18/22 11:43	1
Phenanthrene	<0.24		0.80	0.24	ug/L		03/17/22 11:24	03/18/22 11:43	1
Pyrene	<0.34		0.80	0.34	ug/L		03/17/22 11:24	03/18/22 11:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	62		34 - 110	03/17/22 11:24	03/18/22 11:43	1
Nitrobenzene-d5 (Surr)	63		36 - 120	03/17/22 11:24	03/18/22 11:43	1
Terphenyl-d14 (Surr)	110		40 - 145	03/17/22 11:24	03/18/22 11:43	1

**Lab Sample ID: LCS 500-647549/2-A**  
**Matrix: Water**  
**Analysis Batch: 647644**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 647549**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	32.0	17.2		ug/L		54	38 - 110
2-Methylnaphthalene	32.0	18.3		ug/L		57	34 - 110
Acenaphthene	32.0	23.5		ug/L		74	46 - 110
Acenaphthylene	32.0	24.1		ug/L		75	47 - 113
Anthracene	32.0	32.6		ug/L		102	67 - 118
Benzo[a]anthracene	32.0	33.5		ug/L		105	70 - 126
Benzo[a]pyrene	32.0	36.2		ug/L		113	70 - 135
Benzo[b]fluoranthene	32.0	32.3		ug/L		101	69 - 136
Benzo[g,h,i]perylene	32.0	36.0		ug/L		112	70 - 135
Benzo[k]fluoranthene	32.0	39.0		ug/L		122	70 - 133
Chrysene	32.0	36.7		ug/L		115	68 - 129
Dibenz(a,h)anthracene	32.0	35.7		ug/L		112	70 - 134
Fluoranthene	32.0	33.2		ug/L		104	68 - 126
Fluorene	32.0	23.7		ug/L		74	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.1		ug/L		110	65 - 133
Naphthalene	32.0	18.6		ug/L		58	36 - 110
Phenanthrene	32.0	31.4		ug/L		98	65 - 120
Pyrene	32.0	33.6		ug/L		105	70 - 126

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# QC Sample Results

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

Job ID: 500-213588-1

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

**Lab Sample ID: LCS 500-647549/2-A**  
**Matrix: Water**  
**Analysis Batch: 647644**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 647549**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	83		34 - 110
Nitrobenzene-d5 (Surr)	94		36 - 120
Terphenyl-d14 (Surr)	109		40 - 145

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

**Lab Sample ID: MB 500-647344/1-A**  
**Matrix: Water**  
**Analysis Batch: 647666**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 647344**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1221	<0.20		0.40	0.20	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1232	<0.20		0.40	0.20	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1242	<0.20		0.40	0.20	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1248	<0.20		0.40	0.20	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1254	<0.20		0.40	0.20	ug/L		03/16/22 14:22	03/18/22 09:08	1
PCB-1260	<0.070		0.40	0.070	ug/L		03/16/22 14:22	03/18/22 09:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	87		30 - 120	03/16/22 14:22	03/18/22 09:08	1
DCB Decachlorobiphenyl	114		30 - 140	03/16/22 14:22	03/18/22 09:08	1

**Lab Sample ID: LCS 500-647344/4-A**  
**Matrix: Water**  
**Analysis Batch: 647666**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 647344**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	4.00	4.61		ug/L		115	56 - 120
PCB-1260	4.00	4.49		ug/L		112	53 - 137

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	92		30 - 120
DCB Decachlorobiphenyl	116		30 - 140

**Lab Sample ID: LCSD 500-647344/5-A**  
**Matrix: Water**  
**Analysis Batch: 647666**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 647344**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
PCB-1016	4.00	4.65		ug/L		116	56 - 120	1	20
PCB-1260	4.00	4.57		ug/L		114	53 - 137	2	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	86		30 - 120
DCB Decachlorobiphenyl	119		30 - 140

# QC Sample Results

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 320-573559/1-A**  
**Matrix: Water**  
**Analysis Batch: 574444**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 573559**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorotridecanoic acid (PFTriA)	<1.3		2.0	1.3	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/17/22 05:01	03/20/22 13:57	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/17/22 05:01	03/20/22 13:57	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/17/22 05:01	03/20/22 13:57	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/17/22 05:01	03/20/22 13:57	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/17/22 05:01	03/20/22 13:57	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/17/22 05:01	03/20/22 13:57	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/17/22 05:01	03/20/22 13:57	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/17/22 05:01	03/20/22 13:57	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/17/22 05:01	03/20/22 13:57	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/17/22 05:01	03/20/22 13:57	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/17/22 05:01	03/20/22 13:57	1
DONA	<0.40		2.0	0.40	ng/L		03/17/22 05:01	03/20/22 13:57	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/17/22 05:01	03/20/22 13:57	1
F-53B Major	<0.24		2.0	0.24	ng/L		03/17/22 05:01	03/20/22 13:57	1
F-53B Minor	<0.32		2.0	0.32	ng/L		03/17/22 05:01	03/20/22 13:57	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	83		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C5 PFPeA	82		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 PFHxA	88		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C4 PFHpA	87		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C4 PFOA	92		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C5 PFNA	91		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 PFDA	89		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 PFUnA	90		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 PFDoA	88		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 PFTeDA	80		25 - 150	03/17/22 05:01	03/20/22 13:57	1

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# QC Sample Results

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: MB 320-573559/1-A**  
**Matrix: Water**  
**Analysis Batch: 574444**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 573559**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	83		25 - 150	03/17/22 05:01	03/20/22 13:57	1
18O2 PFHxS	88		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C4 PFOS	89		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C8 FOSA	101		10 - 150	03/17/22 05:01	03/20/22 13:57	1
d3-NMeFOSAA	91		25 - 150	03/17/22 05:01	03/20/22 13:57	1
d5-NEtFOSAA	106		25 - 150	03/17/22 05:01	03/20/22 13:57	1
d-N-MeFOSA-M	78		10 - 150	03/17/22 05:01	03/20/22 13:57	1
d-N-EtFOSA-M	79		10 - 150	03/17/22 05:01	03/20/22 13:57	1
d7-N-MeFOSE-M	85		10 - 150	03/17/22 05:01	03/20/22 13:57	1
d9-N-EtFOSE-M	87		10 - 150	03/17/22 05:01	03/20/22 13:57	1
M2-4:2 FTS	100		25 - 150	03/17/22 05:01	03/20/22 13:57	1
M2-6:2 FTS	99		25 - 150	03/17/22 05:01	03/20/22 13:57	1
M2-8:2 FTS	108		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C3 HFPO-DA	86		25 - 150	03/17/22 05:01	03/20/22 13:57	1
13C2 10:2 FTS	106		25 - 150	03/17/22 05:01	03/20/22 13:57	1

**Lab Sample ID: LCS 320-573559/2-A**  
**Matrix: Water**  
**Analysis Batch: 574444**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 573559**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	45.6		ng/L		114	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.1		ng/L		113	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.5		ng/L		116	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	46.2		ng/L		115	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.8		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.2		ng/L		105	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.6		ng/L		114	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	45.3		ng/L		113	60 - 135
Perfluorotridecanoic acid (PFTriA)	40.0	42.1		ng/L		105	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	41.9		ng/L		105	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	40.6		ng/L		115	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	41.6		ng/L		111	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.2		ng/L		102	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.2		ng/L		111	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	41.7		ng/L		112	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	43.4		ng/L		113	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	43.3		ng/L		112	60 - 135

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# QC Sample Results

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-573559/2-A**  
**Matrix: Water**  
**Analysis Batch: 574444**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 573559**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.7		ng/L		105	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	38.3		ng/L		96	60 - 135
NEtFOSA	40.0	42.2		ng/L		106	60 - 135
NMeFOSA	40.0	43.9		ng/L		110	60 - 135
NMeFOSAA	40.0	46.2		ng/L		115	60 - 135
NEtFOSAA	40.0	42.5		ng/L		106	60 - 135
NMeFOSE	40.0	44.2		ng/L		110	60 - 135
NEtFOSE	40.0	41.6		ng/L		104	60 - 135
4:2 FTS	37.4	43.1		ng/L		115	60 - 135
6:2 FTS	37.9	41.7		ng/L		110	60 - 135
8:2 FTS	38.3	37.2		ng/L		97	60 - 135
DONA	37.7	41.9		ng/L		111	60 - 135
HFPO-DA (GenX)	40.0	47.0		ng/L		118	60 - 135
F-53B Major	37.3	39.9		ng/L		107	60 - 135
F-53B Minor	37.7	40.2		ng/L		107	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	76		25 - 150
13C5 PFPeA	76		25 - 150
13C2 PFHxA	74		25 - 150
13C4 PFHpA	79		25 - 150
13C4 PFOA	75		25 - 150
13C5 PFNA	85		25 - 150
13C2 PFDA	81		25 - 150
13C2 PFUnA	81		25 - 150
13C2 PFDoA	78		25 - 150
13C2 PFTeDA	73		25 - 150
13C3 PFBS	75		25 - 150
18O2 PFHxS	83		25 - 150
13C4 PFOS	82		25 - 150
13C8 FOSA	86		10 - 150
d3-NMeFOSAA	85		25 - 150
d5-NEtFOSAA	90		25 - 150
d-N-MeFOSA-M	65		10 - 150
d-N-EtFOSA-M	67		10 - 150
d7-N-MeFOSE-M	74		10 - 150
d9-N-EtFOSE-M	71		10 - 150
M2-4:2 FTS	84		25 - 150
M2-6:2 FTS	91		25 - 150
M2-8:2 FTS	98		25 - 150
13C3 HFPO-DA	76		25 - 150
13C2 10:2 FTS	93		25 - 150

# QC Sample Results

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCSD 320-573559/3-A**

**Matrix: Water**

**Analysis Batch: 574444**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 573559**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	43.9		ng/L		110	60 - 135	1	30	
Perfluoropentanoic acid (PFPeA)	40.0	45.5		ng/L		114	60 - 135	0	30	
Perfluorohexanoic acid (PFHxA)	40.0	40.7		ng/L		102	60 - 135	10	30	
Perfluoroheptanoic acid (PFHpA)	40.0	45.1		ng/L		113	60 - 135	3	30	
Perfluorooctanoic acid (PFOA)	40.0	39.5		ng/L		99	60 - 135	15	30	
Perfluorononanoic acid (PFNA)	40.0	43.9		ng/L		110	60 - 135	5	30	
Perfluorodecanoic acid (PFDA)	40.0	38.8		ng/L		97	60 - 135	8	30	
Perfluoroundecanoic acid (PFUnA)	40.0	44.9		ng/L		112	60 - 135	1	30	
Perfluorododecanoic acid (PFDoA)	40.0	45.6		ng/L		114	60 - 135	1	30	
Perfluorotridecanoic acid (PFTriA)	40.0	42.4		ng/L		106	60 - 135	1	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	43.3		ng/L		108	60 - 135	3	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	39.8		ng/L		113	60 - 135	2	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.8		ng/L		106	60 - 135	4	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.2		ng/L		97	60 - 135	6	30	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.1		ng/L		108	60 - 135	2	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	39.6		ng/L		107	60 - 135	5	30	
Perfluorononanesulfonic acid (PFNS)	38.4	43.4		ng/L		113	60 - 135	0	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	43.8		ng/L		114	60 - 135	1	30	
Perfluorododecanesulfonic acid (PFDoS)	38.7	41.6		ng/L		107	60 - 135	2	30	
Perfluorooctanesulfonamide (FOSA)	40.0	37.2		ng/L		93	60 - 135	3	30	
NEtFOSA	40.0	42.3		ng/L		106	60 - 135	0	30	
NMeFOSA	40.0	42.9		ng/L		107	60 - 135	2	30	
NMeFOSAA	40.0	41.0		ng/L		102	60 - 135	12	30	
NEtFOSAA	40.0	42.1		ng/L		105	60 - 135	1	30	
NMeFOSE	40.0	40.9		ng/L		102	60 - 135	8	30	
NEtFOSE	40.0	41.9		ng/L		105	60 - 135	1	30	
4:2 FTS	37.4	39.0		ng/L		104	60 - 135	10	30	
6:2 FTS	37.9	34.2		ng/L		90	60 - 135	20	30	
8:2 FTS	38.3	39.5		ng/L		103	60 - 135	6	30	
DONA	37.7	40.7		ng/L		108	60 - 135	3	30	
HFPO-DA (GenX)	40.0	47.1		ng/L		118	60 - 135	0	30	
F-53B Major	37.3	38.5		ng/L		103	60 - 135	4	30	
F-53B Minor	37.7	39.6		ng/L		105	60 - 135	1	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	67		25 - 150
13C5 PFPeA	67		25 - 150
13C2 PFHxA	73		25 - 150

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# QC Sample Results

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCSD 320-573559/3-A**  
**Matrix: Water**  
**Analysis Batch: 574444**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 573559**

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C4 PFHpA	72		25 - 150
13C4 PFOA	75		25 - 150
13C5 PFNA	73		25 - 150
13C2 PFDA	72		25 - 150
13C2 PFUnA	73		25 - 150
13C2 PFDoA	71		25 - 150
13C2 PFTeDA	70		25 - 150
13C3 PFBS	71		25 - 150
18O2 PFHxS	78		25 - 150
13C4 PFOS	75		25 - 150
13C8 FOSA	80		10 - 150
d3-NMeFOSAA	80		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	65		10 - 150
d-N-EtFOSA-M	66		10 - 150
d7-N-MeFOSE-M	72		10 - 150
d9-N-EtFOSE-M	68		10 - 150
M2-4:2 FTS	86		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	88		25 - 150
13C3 HFPO-DA	67		25 - 150
13C2 10:2 FTS	89		25 - 150

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

**Lab Sample ID: LCS 500-648758/2-A**  
**Matrix: Water**  
**Analysis Batch: 648995**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 648758**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Arsenic	100	104		ug/L		104		80 - 120
Barium	500	523		ug/L		105		80 - 120
Cadmium	50.0	52.7		ug/L		105		80 - 120
Chromium	200	215		ug/L		107		80 - 120
Lead	100	110		ug/L		110		80 - 120
Selenium	100	104		ug/L		104		80 - 120
Silver	50.0	52.0		ug/L		104		80 - 120

**Lab Sample ID: MB 500-648596/1-C**  
**Matrix: Water**  
**Analysis Batch: 648995**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 648758**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.23		1.0	0.23	ug/L		03/25/22 08:30	03/25/22 16:13	1
Barium	<0.73		2.5	0.73	ug/L		03/25/22 08:30	03/25/22 16:13	1
Cadmium	<0.17		0.50	0.17	ug/L		03/25/22 08:30	03/25/22 16:13	1
Chromium	<1.1		5.0	1.1	ug/L		03/25/22 08:30	03/25/22 16:13	1
Lead	<0.19		0.50	0.19	ug/L		03/25/22 08:30	03/25/22 16:13	1

Eurofins Chicago

# QC Sample Results

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

Job ID: 500-213588-1

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

**Lab Sample ID: MB 500-648596/1-C**  
**Matrix: Water**  
**Analysis Batch: 648995**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 648758**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	<0.98		2.5	0.98	ug/L		03/25/22 08:30	03/25/22 16:13	1
Silver	<0.12		0.50	0.12	ug/L		03/25/22 08:30	03/25/22 16:13	1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-648615/12-A**  
**Matrix: Water**  
**Analysis Batch: 648839**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 648615**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.098		0.20	0.098	ug/L		03/24/22 10:35	03/25/22 09:04	1

**Lab Sample ID: LCS 500-648615/13-A**  
**Matrix: Water**  
**Analysis Batch: 648839**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 648615**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

**Lab Sample ID: MB 500-648596/1-B**  
**Matrix: Water**  
**Analysis Batch: 648839**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 648615**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.098		0.20	0.098	ug/L		03/24/22 10:35	03/25/22 09:59	1

# Lab Chronicle

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

Job ID: 500-213588-1

## Client Sample ID: MW-4R

Date Collected: 03/10/22 14:00

Date Received: 03/15/22 10:05

## Lab Sample ID: 500-213588-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	647906	03/21/22 19:21	PMF	TAL CHI

## Client Sample ID: MW-5

Date Collected: 03/10/22 13:20

Date Received: 03/15/22 10:05

## Lab Sample ID: 500-213588-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	647906	03/21/22 19:44	PMF	TAL CHI
Total/NA	Prep	3510C			647549	03/17/22 11:24	ALW	TAL CHI
Total/NA	Analysis	8270D		1	647638	03/18/22 17:44	SS	TAL CHI
Total/NA	Prep	3510C			647344	03/16/22 14:22	ALW	TAL CHI
Total/NA	Analysis	8082A		1	647666	03/18/22 09:56	SS	TAL CHI
Dissolved	Filtration	FILTRATION			648596	03/24/22 09:01	MJG	TAL CHI
Dissolved	Prep	3005A			648758	03/25/22 08:30	LMB	TAL CHI
Dissolved	Analysis	6020A		1	648995	03/25/22 16:17	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			648596	03/24/22 09:01	MJG	TAL CHI
Dissolved	Prep	7470A			648615	03/24/22 10:35	MJG	TAL CHI
Dissolved	Analysis	7470A		1	648839	03/25/22 10:01	MJG	TAL CHI

## Client Sample ID: MW-6

Date Collected: 03/10/22 12:35

Date Received: 03/15/22 10:05

## Lab Sample ID: 500-213588-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	647906	03/21/22 20:07	PMF	TAL CHI
Total/NA	Prep	3510C			647549	03/17/22 11:24	ALW	TAL CHI
Total/NA	Analysis	8270D		1	647638	03/18/22 18:06	SS	TAL CHI
Total/NA	Prep	3510C			647344	03/16/22 14:22	ALW	TAL CHI
Total/NA	Analysis	8082A		1	647666	03/18/22 10:13	SS	TAL CHI
Total/NA	Prep	3535			573559	03/17/22 05:01	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1	574444	03/20/22 14:38	K1S	TAL SAC
Dissolved	Filtration	FILTRATION			648596	03/24/22 09:01	MJG	TAL CHI
Dissolved	Prep	3005A			648758	03/25/22 08:30	LMB	TAL CHI
Dissolved	Analysis	6020A		1	648995	03/25/22 16:20	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			648596	03/24/22 09:01	MJG	TAL CHI
Dissolved	Prep	7470A			648615	03/24/22 10:35	MJG	TAL CHI
Dissolved	Analysis	7470A		1	648839	03/25/22 10:08	MJG	TAL CHI

## Client Sample ID: Trip Blank

Date Collected: 03/10/22 00:00

Date Received: 03/15/22 10:05

## Lab Sample ID: 500-213588-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	647906	03/21/22 20:31	PMF	TAL CHI



# Lab Chronicle

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

Job ID: 500-213588-1

## Laboratory References:

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

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
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# Accreditation/Certification Summary

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

Job ID: 500-213588-1

## 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

## Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-22
California	State	2897	01-31-23
Colorado	State	CA0004	08-31-22
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-30-23
Hawaii	State	<cert No.>	01-29-23
Illinois	NELAP	200060	03-18-22 *
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22 *
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-23
Oregon	NELAP	4040	01-29-23
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
USDA	US Federal Programs	P330-18-00239	01-23-23
Utah	NELAP	CA000442021-12	03-01-22 *
Virginia	NELAP	460278	03-14-23
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-22
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



213588 COC

500-213588

Sample Collector(s) Nicholas Bach	Title Environmental Scientist	Telephone # (incl area code) (262) 821 1171	Report To Daniel Pelczar / Robert Reineke / Pratap Singh
Property Owner Community Within the Corridor East Block	Property Address 2748 N 32nd St Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40449

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

Relinquished By (Signature) <i>Nicholas Bach</i>	Date/Time 3-11-22 1445	Received By (Signature) <i>[Signature]</i>	Temperature Blank 0.750.2 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 3-11-22 1700	Received By (Signature) <i>[Signature]</i> 3/15/22 1005	

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

Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PAH	PCB	RCRA Metals	PFAS	Sample Condition					
		Type (1)	Device							# / Type of Container					
										MeOH	HCL	H2SO4	Unpres	Other Comment	
3/10/2022	1400	GW	Bailer	MW-4R	x							3			
3/10/2022	1320	GW	Bailer	MW-5	x	x	x	x				3		5	Lab Filter
3/10/2022	1235	GW	Bailer	MW-6	x	x	x	x	x			3		7	Lab Filter
		---	GW	Trp Blank	x							1			

DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES 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	DEPARTMENT USE ONLY Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By Accepted <input type="checkbox"/> Y <input type="checkbox"/> N Signature _____
--	---

1234

ORIGIN ID:RRLA (262) 202-5955  
IAN EVANS  
EUROFINS TESTAMERICA  
4125 N 124TH ST.  
SUITE F (REAR)  
BROOKFIELD, WI 53005  
UNITED STATES US

SHIP DATE: 14MAR22  
ACTWGT: 50.50 LB  
CAD: 02696887/CAFE3511

BILL RECIPIENT

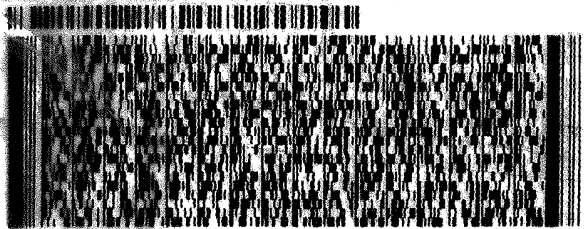


TO **SAMPLE RECEIPT**  
**EUROFINS**  
**2417 BOND ST.**

EUROFINS/PROCP/CF43

**UNIVERSITY PARK IL 60484**

(262) 202-5955 REF: DEPT:  
POST



J211020121101 0V

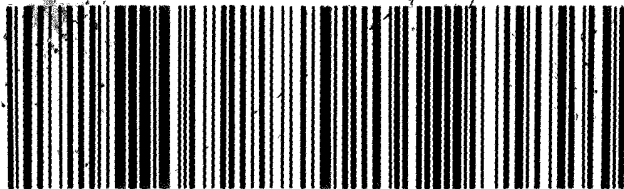
3 of 4  
5632 2369 1407  
Mstr# 5632 2369 1381

0201

**TUE - 15 MAR 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**60484**  
IL-US ORD



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**Eurofins Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone: 708-534-5200 Fax: 708-534-5211

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab PM: Fredrick, Sandie		Carrier Tracking No(s):		COC No: 500-158221.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: Wisconsin		Page: Page 1 of 1			
Company: Eurofins Environment Testing Northern Ca				Accreditations Required (See note): State Program - Wisconsin				Job #: 500-213588-1			
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605		Due Date Requested: 3/28/2022		<b>Analysis Requested</b>						<b>Preservation Codes:</b> A - HCL            M - Hexane B - NaOH         N - None C - Zn Acetate    O - AsNaO2 D - Nitric Acid    P - Na2O4S E - NaHSO4        Q - Na2SO3 F - MeOH          R - Na2S2O3 G - Amchlor        S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice              U - Acetone J - DI Water        V - MCAA K - EDTA            W - pH 4-5 L - EDA              Z - other (specify)	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days):									
Email:		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Project Name: Soils & Waters		WO #:		PFC IDA_WI/3535_PFC_28D PFAS, Standard List (33 analytes)							
Site:		Project #: 50006762									
		SSOW#:									
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>MATRIX (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<b>Special Instructions/Note:</b>		
MW-6 (500-213588-3)		3/10/22	12:35 Central		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	2		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For    Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2			

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Shirley Scott</i>		Date/Time: 3/15/22 1520		Company: <i>ETA</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Date/Time: 3/16/22 1015	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 1925547		Cooler Temperature(s) °C and Other Remarks: 1.14			

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3/28/2022



# Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-213588-1

**Login Number: 213588**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-213588-1

**Login Number: 213588**

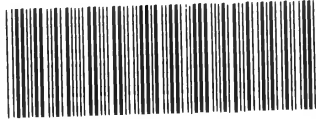
**List Number: 2**

**Creator: Simmons, Jason C**

**List Source: Eurofins Sacramento**

**List Creation: 03/16/22 01:29 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1922547
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1c
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



500-213588 Field Sheet

Tracking #: 18934455.9033

Job: \_\_\_\_\_

SO/PO/FO/SAT/2-Day/Ground/UPS/CDO/Courier  
GSO/OnTrac/Goldstreak/USPS/Other \_\_\_\_\_

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: LE10 Corr. Factor: (+/-) - °C  
 Ice 1 Wet 1 Gel \_\_\_\_\_ Other \_\_\_\_\_  
 Cooler Custody Seal: 1922547  
 Cooler ID: \_\_\_\_\_  
 Temp Observed: 10 °C Corrected: 4 °C  
 From: Temp Blank  Sample

Notes: \_\_\_\_\_

**Opening/Processing The Shipment**

	<b>Yes</b>	<b>No</b>	<b>NA</b>
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: B Date: 3/16/22

**Unpacking/Labeling The Samples**

	<b>Yes</b>	<b>No</b>	<b>NA</b>
CoC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trizma Lot #(s): \_\_\_\_\_

**Login Completion**

	<b>Yes</b>	<b>No</b>	<b>NA</b>
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: B Date: 3/16/22

Initials: B Date: 3/16/22

\*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

WR3-17A



# Isotope Dilution Summary

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

Job ID: 500-213588-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-213588-3	MW-6	75	77	85	89	81	87	83	81
LCS 320-573559/2-A	Lab Control Sample	76	76	74	79	75	85	81	81
LCSD 320-573559/3-A	Lab Control Sample Dup	67	67	73	72	75	73	72	73
MB 320-573559/1-A	Method Blank	83	82	88	87	92	91	89	90

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
500-213588-3	MW-6	77	71	78	86	85	94	83	91
LCS 320-573559/2-A	Lab Control Sample	78	73	75	83	82	86	85	90
LCSD 320-573559/3-A	Lab Control Sample Dup	71	70	71	78	75	80	80	85
MB 320-573559/1-A	Method Blank	88	80	83	88	89	101	91	106

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFM (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
500-213588-3	MW-6	69	72	76	74	92	105	100	78
LCS 320-573559/2-A	Lab Control Sample	65	67	74	71	84	91	98	76
LCSD 320-573559/3-A	Lab Control Sample Dup	65	66	72	68	86	86	88	67
MB 320-573559/1-A	Method Blank	78	79	85	87	100	99	108	86

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M102FTS (25-150)
500-213588-3	MW-6	95
LCS 320-573559/2-A	Lab Control Sample	93
LCSD 320-573559/3-A	Lab Control Sample Dup	89
MB 320-573559/1-A	Method Blank	106

#### Surrogate Legend

PFBA = 13C4 PFBA  
 PFPeA = 13C5 PFPeA  
 PFHxA = 13C2 PFHxA  
 C4PFHA = 13C4 PFHpA  
 PFOA = 13C4 PFOA  
 PFNA = 13C5 PFNA  
 PFDA = 13C2 PFDA  
 PFUnA = 13C2 PFUnA  
 PFDoA = 13C2 PFDoA  
 PFTDA = 13C2 PFTeDA  
 C3PFBS = 13C3 PFBS  
 PFHxS = 18O2 PFHxS  
 PFOS = 13C4 PFOS  
 PFOSA = 13C8 FOSA  
 d3NMFOS = d3-NMeFOSAA  
 d5NEFOS = d5-NEtFOSAA  
 dMeFOSA = d-N-MeFOSA-M  
 dEtFOSA = d-N-EtFOSA-M  
 NMFM = d7-N-MeFOSE-M  
 NEFM = d9-N-EtFOSE-M  
 M242FTS = M2-4:2 FTS

# Isotope Dilution Summary

Client: K. Singh & Associates, Inc

Job ID: 500-213588-1

Project/Site: Community Within the Corridor - East Block

40449

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

M102FTS = 13C2 10:2 FTS

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