GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-1 Date: 9-22-2020

Access:

Accessibility: Good: ✓ Fair: _____ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Concrete Pad: N/A

Integrity: Good: _____ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: _____

Remarks: Concrete around IS NOT visible

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 09-22-2020

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5020-1006
Well I.D.:	MW-2A	Sampling Date:	9-23-20
Collected By:	MC	Purge start Time:	7.46
Casing Diameter (inches):	4	Purge Stop time:	8:23
Starting Water Level:	33.60	Sampling (Well Recovery) Time:	8:45
Total Depth (feet):	41.27	Ending Water Level (feet):	34.78
Water column (feet):	7.65	Total Purged (gallons):	2.0
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/W54/WBD	Blanks taken at this well	

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7:56	.5	34.12	6.33	3.16	0.0	2.34	21.50	-17
8:04	1.0	34.30	6.34	3.17	0.0	1.92	21.65	-29
8:09	1.25	34.44	6.34	3.18	0.0	1.75	21.75	-33
8:14	1.50	34.60	6.34	3.18	0.0	1.63	21.80	-35
8:18	1.75	34.69	6.35	3.19	0.0	1.58	21.86	-39
8:23	2.0	34.78	6.35	3.19	0.0	1.55	21.93	-42

Purge Sampling Rates: 25 psi refill 20 discharge 6

Well condition: water is clear with no odor
Low yield well to extra time to fill the bottles
poor access heavy vegetation erosion around well
Had to carry sampling bottles and equipment down a slope to wet

Additional Info/Comments: Clear, warm, breeze
Blanks taken at this well

Name: Mike Campbell **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-2A Date: 9-23-20

Access:

Accessibility: Good: _____ Fair: _____ Poor: ✓

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Carried sampling equipment and containers down a slope through heavy vegetation to the well also observed erosion

Concrete Pad:

Integrity: Good: _____ Inadequate: _____

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Concrete pad is burried

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: Mike Campbell Field Tech 9-23-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5020-1006
Well I.D.:	MW-2B	Sampling Date:	9-23-20
Collected By:	MC	Purge start Time:	9:16
Casing Diameter (inches):	4	Purge Stop time:	9:35
Starting Water Level:	17.68	Sampling (Well Recovery) Time:	9:45
Total Depth (feet):	70.90	Ending Water Level (feet):	21.90
Water column (feet):	53.22	Total Purged (gallons):	2.5
Screen Length (feet):		Duplicate Sample:	YES NO

Sample Method: Micro Purge Low Flow

Horiba Model S/N: U-52/W5Y1WBDD

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:23	1.0	19.71	7.12	3.17	0.0	1.48	22.12	-118
9:27	1.5	20.08	7.12	3.16	0.0	1.20	22.09	-119
9:29	1.75	20.52	7.12	3.18	0.0	1.03	21.99	-120
9:31	2.0	20.93	7.12	3.16	0.0	.90	22.05	-120
9:33	2.25	21.54	7.12	3.17	0.0	.86	22.01	-121
9:35	2.50	21.90	7.11	3.17	0.0	.82	22.03	-121

Purge Sampling Rates: 40 psi 35 refill discharge 14
water is clear with a moderate odor

Well condition: OK Heavy vegetation and erosion around wet
Carried sampling equipment and containers down slope to wet

Additional Info/Comments: clear, hot, breezy

Name: Mike Campbell Signature: [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: MW-2B Date: 9-23-20

Access:

Accessibility: Good: _____ Fair: _____ Poor: ✓

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Carried sampling equipment and containers down a slope through heavy vegetation to well observed erosion around well

Concrete Pad:

Integrity: Good: _____ Inadequate: ✓

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Half the pad is burried

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: Mike Caufield (Signed) Field tech (Title) 9-23-20 (Date)

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5020.1006
Well I.D.:	mw-5	**Sampling Date:**	9-22-2020
Collected By:	CV	**Purge start Time:**	0930 ~~0926~~ CV
Casing Diameter (inches):	2	**Purge Stop time:**	0947
Starting Water Level:	18.50	**Sampling (Well Recovery) Time:**	1007
Total Depth (feet):	25.65	**Ending Water Level (feet):**	18.81
Water column (feet):	7.15	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 W6GRBDR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0937	1	18.76	6.95	3.71	9.9	3.19	21.48	-125
0940	1 1/2	18.80	6.94	3.66	6.9	1.87	21.27	-134
0943	2	18.81	6.93	3.64	4.2	1.64	21.25	-136
0945	2 1/4	18.81	6.93	3.64	3.6	1.57	21.27	-137
0947	2 1/2	18.81	6.92	3.64	3.0	1.49	21.33	-138

Purge Sampling Rates: 20 PSI Refill (30) Dis (12)

Well condition: good, water has yellow tint

Additional Info/Comments: sunny, clear cool

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-5 Date: 9-22-2026

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Burms next to well

Concrete Pad: N/A

Integrity: Good: _____ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: _____

Remarks: not visible

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 9-22-2026

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5020.1006
Well I.D.:	MW-6	**Sampling Date:**	9-21-2020
Collected By:	CV	**Purge start Time:**	0924
Casing Diameter (inches):	2	**Purge Stop time:**	1011
Starting Water Level:	16.35	**Sampling (Well Recovery) Time:**	1032
Total Depth (feet):	20.52	**Ending Water Level (feet):**	17.11
Water column (feet):	4.17	**Total Purged (gallons):**	1 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 W66P8025		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0938	1/2	16.86	7.33	3.74	1.4	1.62	23.68	-271
0944	3/4	16.95	7.30	3.74	0.2	1.39	23.72	-292
0950	1	17.11	7.28	3.74	0.5	1.30	23.74	-301
0957	1 1/4	17.08	7.26	3.73	0.2	1.22	23.77	-308
1004	1 1/2	17.11	7.25	3.72	0.0	1.18	23.79	-311
1011	1 3/4	17.11	7.24	3.72	0.0	1.16	23.80	-312

Purge Sampling Rates: 20 PSI Refill 30 Discharge 5

Well condition: OK, Water has strong odor and greyish color

Additional Info/Comments: Sunny, cool Apx 45 mins to Fill Bottles

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-6 Date: 9-21-2020

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: carried all Equipment from other well.

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: _____ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: Christin Valdez Field Tech 9-21-2020

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5026.1006
Well I.D.:	MW-9	Sampling Date:	9-22-20
Collected By:	MC	Purge start Time:	10:10
Casing Diameter (inches):	4	Purge Stop time:	10:56
Starting Water Level:	22.22	Sampling (Well Recovery) Time:	11:15
Total Depth (feet):	25.90	Ending Water Level (feet):	22.33
Water column (feet):	3.68	Total Purged (gallons):	1.5
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/WSYIWBDD		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
10:22	.25	22.30	6.55	4.10	0.2	.37	24.09	-101
10:30	.5	22.32	6.55	4.09	0.7	1.19	23.66	-105
10:37	.75	22.33	6.54	4.09	0.0	1.13	23.58	-108
10:42	1.0	22.33	6.54	4.09	0.0	1.12	23.56	-109
10:49	1.25	22.33	6.54	4.11	0.0	1.09	23.59	-110
10:56	1.5	22.33	6.53	4.11	0.0	1.06	23.63	-110

Purge Sampling Rates: 25 psi ref. 11 25 discharge 3.5

water has greenish yellow tint with a slight odor 80 ml/cycle

Well condition: OK

Had to carry sampling equipment and bottles to the well

Additional Info/Comments: Clear, hot, breezy and dusty very low yielding well 2 80 ml/cycle

Name: Mike Campbell **Signature:** Mike Campbell

C-2

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: MW-9 Date: 9-22-20

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Required carrying sampling equipment and containers to the well

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: Metal Flushmount

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: [signature] Field Tech 9-22-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5020.1006
Well I.D.:	MW-13R	**Sampling Date:**	9-21-2020
Collected By:	CV	**Purge start Time:**	1147
Casing Diameter (inches):	4	**Purge Stop time:**	1224
Starting Water Level:	17.70	**Sampling (Well Recovery) Time:**	1249
Total Depth (feet):	28.47	**Ending Water Level (feet):**	18.07
Water column (feet):	10.77	**Total Purged (gallons):**	11/2
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:			

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1203	1/2	17.94	7.88	1.73	0.0	1.18	24.81	-387
1207	3/4	17.99	7.88	1.72	0.0	1.10	25.03	-389
1213	1	18.05	7.87	1.72	0.6	1.03	25.11	-390
1219	1 1/4	18.05	7.87	1.71	0.0	0.99	25.37	-390
1224	1 1/2	18.07	7.87	1.71	0.0	0.95	25.40	-391

Purge Sampling Rates: 30 PSi Refill (30) Discharge (5)

Well condition: OK, new Lid. APX 45 min to fill containers

Additional Info/Comments: sunny, clear, warm, strong odor, yellow tint. Heavy Traffic next to well.

Name: Christian Valenzuela **Signature:** [signature]

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-13R Date: 9-21-2020

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Had to carry Equipment to well

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: _____ Damaged: _____

Remarks: New Lid and casing is Painted.

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 9-21-2020

Signed Title Date

Geo-Logic ASSOCIATES

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	20-1006
Well I.D.:	MW-14	**Sampling Date:**	9-21-2020
Collected By:	CV	**Purge start Time:**	0817
Casing Diameter (inches):	4	**Purge Stop time:**	0832
Starting Water Level:	13.99	**Sampling (Well Recovery) Time:**	0847
Total Depth (feet):	27.35	**Ending Water Level (feet):**	14.51
Water column (feet):	13.36	**Total Purged (gallons):**	2 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WQ6PBGRS		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0823	1	14.41	6.96	3.55	0.0	2.33	22.04	221
0828	2	14.48	6.98	3.53	0.0	2.03	22.08	216
0830	2 1/4	14.51	6.98	3.53	0.0	1.96	22.08	215
0831	2 1/2	14.51	6.98	3.53	0.0	1.92	22.07	214
0832	2 3/4	14.51	6.98	3.53	0.0	1.86	22.07	213

Purge Sampling Rates: 20 PSI Refill 20 Discharge 10

Well condition: OK, water clear no odor.

Additional Info/Comments: clear, cool

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: MW-14 Date: 9-21-2020

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Backed up as far as i could on concrete carried Equipment Down Hill.

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: Meta

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: _____ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 9-21-2020

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Canyon	**Project No.:**	5020.1006
Well I.D.:	PZ-2	**Sampling Date:**	9-22-2020
Collected By:	CV	**Purge start Time:**	0728
Casing Diameter (inches):	2"	**Purge Stop time:**	0753
Starting Water Level:	121.06	**Sampling (Well Recovery) Time:**	0818
Total Depth (feet):	157.53	**Ending Water Level (feet):**	126.83
Water column (feet):	36.47	**Total Purged (gallons):**	1 3/4
Screen Length (feet):	—	**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52 WQCP8QR5		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
0737	1/2	123.46	8.77	5.73	0.1	2.20	23.32	-146
0743	1	124.69	8.83	5.71	0.0	1.87	23.51	-143
0747	1 1/4	125.72	8.84	5.69	0.6	1.70	23.55	-141
0750	1 1/2	126.29	8.84	5.69	0.6	1.64	23.61	-141
0753	1 3/4	126.83	8.84	5.68	0.0	1.54	23.72	-140

Purge Sampling Rates: ~~80~~ PSI REF:11 30 Discharge 22

Well condition: OK water clear

Additional Info/Comments: clear, cool

Name: Christian Valenzuela **Signature:** Christian Valenzuela

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine canyon Well ID: PZ-2 Date: 9-22-2020

Access:

Accessibility: Good: _____ Fair: _____ Poor: ✓

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Carried sampling equipment across channel

Concrete Pad:

Integrity: Good: _____ Inadequate: _____ N/A

Presence of depressions or standing water around well: Yes: _____ No: _____

Remarks: NO concrete pad HDPE 36"

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: _____ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 9-22-2020

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5020.1006
Well I.D.:	PZ-4	Sampling Date:	9-21-20
Collected By:	MC	Purge start Time:	12:26
Casing Diameter (inches):	2	Purge Stop time:	12:56
Starting Water Level:	110.23	Sampling (Well Recovery) Time:	13:06
Total Depth (feet):	118.95	Ending Water Level (feet):	113.78
Water column (feet):	8.72	Total Purged (gallons):	2.75
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/WQ41KBDP		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
12:36	1.0	112.49	6.94	1.42	3.8	1.63	27.07	-120
12:42	1.5	112.89	6.92	1.42	2.2	1.24	27.11	-126
12:45	1.75	113.06	6.92	1.42	2.6	1.27	27.13	-127
12:48	2.0	113.24	6.91	1.41	3.6	1.20	27.20	-127
12:50	2.25	113.43	6.91	1.41	2.8	1.16	27.24	-126
12:53	2.50	113.61	6.91	1.40	2.2	1.13	27.25	-126
12:56	2.75	113.78	6.90	1.40	1.9	1.11	27.27	-127

Purge Sampling Rates: Psi 90 ref. 11 30 discharge 12

water has slight gray tint and no odor

Well condition: OK

Additional Info/Comments: Hazy Sunshine, Hot, windy

Name: Mike Campbell **Signature:** Mike Campbell

C-2

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: PZ-4 Date: 9-21-20

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: _____

Remarks: Flushmount

Protective Outer Casing: Material: Metal Flushmount

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: NA Damaged: _____

Condition of Lock: Good: NA Damaged: _____

Condition of Weepholes: Good: NA Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: Mike Canfield Environmental Tech 9-21-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Sunshine Gas.	**Project No.:**	5026.107
Well I.D.:	DW-1	**Sampling Date:**	9-21-20
Collected By:	BS	**Purge start Time:**	/
Casing Diameter (inches):	4	**Purge Stop time:**	/
Starting Water Level:	TBC	**Sampling Time:**	1115
Total Depth (feet):	/	**Ending Water Level (feet):**	/
Water column (feet):	/	**Total Purged (gallons):**	/
Screen Length (feet):	/	**PID/FID Reading:**	/
Purge Volume (gallons):	/	**Duplicate Sample:**	YES (NO)
Horiba Model S/N:	B855494H		

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Grab	—	7.96	4.63	5	2.35	25.79	-135

Purge Sampling Rates: Collect a grab sample from dedicated discharge.

Well condition: OK

Additional Info/Comments: Sunny, Warm

Name: B. Sakinas **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cty. Well ID: DW-1 Date: 9-21-20

Access:

Accessibility: Good: ✓ Fair: _____ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: _____ Damaged: Corroded

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: Needs a new lock Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: N/A No: _____

Remarks:

Dedicated Pump: Type: Drop Tube

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] GW Manager 9-21-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5020.1006
Well I.D.:	DW-2	Sampling Date:	9-22-20
Collected By:	MC	Purge start Time:	7:41
Casing Diameter (inches):	4	Purge Stop time:	8:00
Starting Water Level:	24.57	Sampling (Well Recovery) Time:	8:15
Total Depth (feet):	70.92	Ending Water Level (feet):	27.61
Water column (feet):	46.35	Total Purged (gallons):	2.50
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/W541WBOD		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
7:48	1.0	26.16	7.24	2.65	0.3	1.58	18.39	-121
7:52	1.5	27.01	7.29	2.65	0.2	1.36	18.38	-131
7:54	1.75	27.29	7.31	2.65	0.2	1.31	18.39	-133
7:56	2.0	27.44	7.32	2.65	0.0	1.28	18.40	-135
7:58	2.25	27.58	7.33	2.65	0.0	1.26	18.39	-136
8:00	2.50	27.61	7.33	2.65	0.0	1.25	18.41	-138

Purge Sampling Rates: 40 psi ref.11 30 discharge 12

water is clear with a slight odor

Well condition: OK

Additional Info/Comments: some vegetation around the well and path to well
Hazy sunshine, warm, slight breeze

Name: Mike Campbell Signature: Mike Campbell

C-2

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: DW-2 Date: 9-22-20

Access:

Accessibility: Good: _____ Fair: ✓ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks: Some vegetation around the well and the path to the well

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: Mia Campbell (Signed) Field Tech (Title) 9-22-20 (Date)

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	**Project No.:**	5020.1006
Well I.D.:	DW-3	**Sampling Date:**	9-22-20
Collected By:	MC	**Purge start Time:**	8:52
Casing Diameter (inches):	4	**Purge Stop time:**	9:12
Starting Water Level:	156.52 ~~156.52~~ mc	**Sampling (Well Recovery) Time:**	9:25
Total Depth (feet):	248.65	**Ending Water Level (feet):**	160.09
Water column (feet):	92.13	**Total Purged (gallons):**	2.5
Screen Length (feet):		**Duplicate Sample:**	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/WSYIWBDD		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
9:00	1.0	158.12	7.25	2.10	2.0	1.82	20.36	-62
9:04	1.5	158.87	7.25	2.10	1.6	1.60	20.38	-69
9:06	1.75	159.25	7.25	2.10	1.9	1.51	20.42	-72
9:08	2.0	159.43	7.25	2.10	2.0	1.47	20.44	-74
9:10	2.25	159.76	7.25	2.10	1.5	1.44	20.45	-75
9:12	2.50	160.09	7.25	2.09	1.7	1.40	20.49	-77

Purge Sampling Rates: 120 psi ref. 11 40 discharge ~~17~~ 16 mc

Well condition: OK water is clear with no odor

Additional Info/Comments: Mostly clear, warm to hot, breezy

Name: Mike Campbell **Signature:** Mike Campbell

C-2

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: DW-3 Date: 9-22-20

Access:

Accessibility: Good: ✓ Fair: _____ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: ✓ No: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Concrete Pad:

Integrity: Good: ✓ Inadequate: _____

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: [signature] Field Tech 9-22-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine Cyn	Project No.:	5020.1006
Well I.D.:	DW-4	Sampling Date:	9-23-20
Collected By:	MC	Purge start Time:	10:21
Casing Diameter (inches):	4	Purge Stop time:	10:42
Starting Water Level:	32.24	Sampling (Well Recovery) Time:	10:50
Total Depth (feet):	134.60	Ending Water Level (feet):	35.18
Water column (feet):	102.36	Total Purged (gallons):	2.75
Screen Length (feet):		Duplicate Sample:	YES (NO)
Sample Method:	(Micro Purge) Low Flow		
Horiba Model S/N:	U-52/ WS41KBOD		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
10:28	1.0	33.52	7.22	3.37	0.0	6.52	21.71	-147
10:32	1.5	34.10	7.21	3.40	0.0	6.16	21.59	-143
10:36	2.0	34.50	7.21	3.40	0.0	5.64	21.51	-140
10:38	2.25	34.74	7.21	3.41	0.0	5.39	21.46	-139
10:40	2.50	34.97	7.21	3.41	0.0	5.33	21.43	-138
10:42	2.75	35.18	7.21	3.41	0.0	5.29	21.41	-138

Purge Sampling Rates: 75 psi refill 30 discharge 16

Water is clear with a blackish tint and moderate odor

Well condition: OK heavy vegetation and erosion around the well

Additional Info/Comments: Carried Sampling equipment and containers down a slope to well

Clear, hot, slight breeze

Name: Mike Campbell Signature: Mike Campbell

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Cyn Well ID: DW-4 Date: 9-23-20

Access:

Accessibility: Good: _____ Fair: _____ Poor: ✓

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Carried sampling equipment and containers down a slope through heavy vegetation to the well. Observed erosion in vicinity of the well.

Concrete Pad:

Integrity: Good: _____ Inadequate: ✓

Presence of depressions or standing water around well: Yes: ✓ No: _____

Remarks: Buried

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: ✓ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): NA Current (Hz): NA

Remarks:

Field Certification: Mike Caylor Field Tech 9-23-20

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name:	Sunshine canyon	**Project No.:**	S020.1006
Well I.D.:	DW-5	**Sampling Date:**	9-22-2020
Collected By:	CV	**Purge start Time:**	1100
Casing Diameter (inches):	4"	**Purge Stop time:**	1124
Starting Water Level:	13.23	**Sampling (Well Recovery) Time:**	1144
Total Depth (feet):	100.46	**Ending Water Level (feet):**	17.31
Water column (feet):	87.23	**Total Purged (gallons):**	2 1/2
Screen Length (feet):	~~[illegible]~~	**Duplicate Sample:**	YES NO
Sample Method:	Micro Purge Low Flow		
Horiba Model S/N:	4-52 [illegible]		

TIME	GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
1111	1	15.08	8.50	1.61	3.9	1.74	21.25	-164
1116	1 1/2	16.[illegible]	8.50	1.57	3.9	1.49	21.50	-177
1119	2	16.57	8.50	1.57	3.9	1.42	21.40	-184
1122	2 1/4	17.04	8.50	1.58	3.9	1.36	21.27	-188
1124	2 1/2	17.31	8.50	1.57	3.8	1.33	21.35	-190

Purge Sampling Rates: 65 PSI Refill (30) Dis (18)

Well condition: OK

Additional Info/Comments: Sunny, Clear, Slight Breeze

Name: Christian Valenzuela **Signature:**

GROUNDWATER MONITORING WELL INSPECTION REPORT

Facility: Sunshine Canyon Well ID: DW-5 Date: 9-22-2020

Access:

Accessibility: Good: ✓ Fair: _____ Poor: _____

Vicinity of well clear of weeds and/or debris: Yes: _____ No: ✓

Presence of depressions or standing water around well: Yes: _____ No: ✓

Remarks:

Concrete Pad:

Integrity: Good: _____ Inadequate: _____ N/A

Presence of depressions or standing water around well: Yes: _____ No: _____

Remarks: Not Visible

Protective Outer Casing: Material: Metal

Condition of Protective Casing: Good: ✓ Damaged: _____

Condition of Locking Cap: Good: ✓ Damaged: _____

Condition of Lock: Good: ✓ Damaged: _____

Condition of Weepholes: Good: _____ Damaged: _____

Remarks:

Well Riser: Material: PVC

Condition of Riser: Good: ✓ Damaged: _____

Condition of Riser Cap: Good: ✓ Damaged: _____

Measurment reference point: Yes: ✓ No: _____

Remarks:

Dedicated Pump: Type: Bladder

Condition: Good: ✓ Damaged: _____ Missing: _____

Pumping Rate (gpm): N/A Current (Hz): N/A

Remarks:

Field Certification: [signature] Field Tech 9-22-2020

Signed Title Date

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GROUNDWATER MONITORING PROGRAM
~~SURFACE~~ WATER DATA SHEET

SITE: Sunshine Cyn.

Station I.D.: Extraction Trench
Collected By: BJS
Horiba Model S/N: R8854944

Sampling Date: 9-22-20
Sampling Time: 0912
Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ~~µs/cm~~ mS/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Tint of yellow	Yes	6.26	5.32	42.8	1.43	23.41	-119

Surface water conditions (including stream flow rate, stream depth): Sample Taken @ Filter Units

Field Blank Taken

Additional Info/Comments: Sunny, cool

Bjt

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GROUNDWATER MONITORING PROGRAM
WELL DATA SHEET

Site Name.:	Sunshine	**Project No.:**	520.1006
Well I.D.:	LY-6	**Sampling Date:**	9-22-20
Collected By:	BS	**Purge start Time:**	
Casing Diameter (inches):	8"	**Purge Stop time:**	
Starting Water Level:		**Sampling Time:**	
Total Depth (feet):		**Ending Water Level (feet):**	
Water column (feet):		**Total Purged (gallons):**	
Screen Length (feet):		**PID/FID Reading:**	
Purge Volume (gallons):		**Duplicate Sample:**	YES NO
Horiba Model S/N:			

GALLONS PURGED	WATER LEVEL	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV

DRY

Purge Sampling Rates: Lysimeter appears to be dry. Kyle check with Mark Vincent.

Well condition: OK

Additional Info/Comments: Sunny, cool

Name: B. Salinas **Signature:**

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GROUNDWATER MONITORING PROGRAM
~~SURFACE~~ WATER DATA SHEET

SITE: Sunshine Cyn.

Station I.D.: LY-7
Collected By: RBS
Horiba Model S/N: R855494H

Sampling Date: 9-22-20
Sampling Time: 0718
Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ~~µs/cm~~ mS/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Tint of yellow	yes	6.52	5.53	3.2	4.02	29.19	-6

Surface water conditions (including stream flow rate, stream depth): Samples taken @ Eff. of 2" HDPE @ Lysimeter Sump.

Additional Info/Comments: Clear, Cool

RBS

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

SITE: Sunshine Cyn.

Station I.D.: Subdrain N
Collected By: BS
Horiba Model S/N: 128J549UH

Sampling Date: 9-21-20
Sampling Time: 1150
Duplicate Sample: YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ~~µs/cm~~ mS/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Rusty/dark	yes	6.44	4.46	OR	2.08	32.33	-179

Surface water conditions (including stream flow rate, stream depth): Collect Samples @ Subdrain location.

Additional Info/Comments: Sunny/warm

BS

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GROUNDWATER MONITORING PROGRAM
SURFACE WATER DATA SHEET

SITE: Sunshine Cyn.

Station I.D.: combined subdrains
Collected By: B. Salinas
Horiba Model S/N: R8JS494H

Sampling Date: 9-21-20
Sampling Time: 0940
Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY ~~µs/cm~~ mS/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Tint of Yellow	Yes	6.78	3.50	63.3	1.69	22.83	-29

Surface water conditions (including stream flow rate, stream depth): Collect samples @ Treatment area.

QCAB taken here.

Additional Info/Comments: sunny, cool

[signature]

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn. **PROJECT NAME / NUMBER** 5020.1006

Instrument Make/Model #	Horiba U-52 R8JJ5494H					
Date/Time 9/21/20 0808	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.31	4.57	0.6	13.02		
Calibration	4.00	4.49	6	8.58		
Calibration Successful? (Y/N)	Yes	→		→	enter YES or NO	
Satifies Protocol?	Yes	→		→	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[signature]	[signature]			Signature or initials	
Physical Condition of Unit		Good				

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn **PROJECT NAME / NUMBER** S020.1006

Instrument Make/Model # U-52/ W-5Y/WBDP

Date/Time 9-21-20 7.29	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.07	4.26	0.0	8.43		
Calibration	4.00	4.48	0.2	8.72		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit		Good				

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5020.1006

Instrument Make/Model # U-52 WQCP8GR5						
Date/Time 9-21-2020 0727	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.67	4.48	0.3	8.34		
Calibration	4.01	4.49	0.0	8.33		
Calibration Successful? (Y/N)	YES	~			enter YES or NO	
Satifies Protocol?	YES	~			Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CRV	~			Signature or initials	[signature]
Physical Condition of Unit	OK					

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Stringfellow **PROJECT NAME / NUMBER** S020-1006

Instrument Make/Model # U-52/W541WBDD

Date/Time 9-22-20 6:43	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	3.84	4.41	0.0	9.46		
Calibration	4.00	4.49	0.0	9.22		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit		Good				

GeoLogic Associates

Effective June 1, 2009

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn. **PROJECT NAME / NUMBER** 5020.1006

Instrument Make/Model #	Horiba U-52 RBJ5494H					
Date/Time 9/22/20 0643	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.94	4.53	0.5	12.34		
Calibration	4.01	4.50	←	8.62		
Calibration Successful? (Y/N)	Yes	→	→	→	enter YES or NO	
Satifies Protocol?	Yes	→	→	→	Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	Bert Jalen				Signature or initials	
Physical Condition of Unit	Good					

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Canyon **PROJECT NAME / NUMBER** 5020.1006

Instrument Make/Model # 4-52 WGGPSGR5						
Date/Time 9-22-2020 0636	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	4.25	4.53	0.2	8.83		
Calibration	4.00	4.49	0.0	9.01		
Calibration Successful? (Y/N)	YES				enter YES or NO	
Satifies Protocol?	YES				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	CRV				Signature or initials	
Physical Condition of Unit	OK					

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FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn **PROJECT NAME / NUMBER** SOZE - 1006

Instrument Make/Model # 4-52/W5Y1MBDC

Date/Time 9-23-20 6:25	pH	Electrical Conductivity (µMhos/cm) (4.49 mg/Kg)	Turbidity (NTU) (0)	DO (mg/L or %)	Guidance Remarks	Comments
Pre. Cal	4.11	4.52	0.4	10.03		
Calibration	4.00	4.49	0.0	9.38		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[illegible]				Signature or initials	[illegible]
Physical Condition of Unit		Good				

GeoLogic Associates

Effective June 1, 2009

Chain of Custody Record 316176

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Kyle Nicholas	Site Contact: J. Mills	Date: 9-23-20	COC No:
Company Name: Geo-Logic Assoc.	Tel/Fax: 858-451-1131	Lab Contact: R. Tomova	Carrier: T/A	1 of 1 COCs
Address: 11411 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: MC
City/State/Zip: S.D., CA. 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below _____			Walk-in Client:
Fax: 858-451-1087	☐ 2 weeks			Lab Sampling:
Project Name: Republic Services	☐ 1 week			
Site: Sunshine Cyn. L/F	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC's 8260B	SVOC's 8270D 1,4-Dioxane	Total Alkalinity as CaCO3	Ammonia as N (350.1)	COD (410.4)	Chloride (300.0)	Perchlorate (6850B)	TDS (160.1)	TSS (160.2)	Sample Specific Notes:
MW-2A	9/23/20	0845	G	GW	12			X	X	X	X	X	X	X	X	X	
MW-2B		0945		GW	12			X	X	X	X	X	X	X	X	X	
DW-4		10:50		GW	12			X	X	X	X	X	X	X	X	X	
Field Blank		—		DI H2O	4			X									
Trip Blank	↓	—	↓	"	4			X									

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☑ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Michael Campbell	Geo-Logic Assoc.	9-23-20 15:15		FEDEX	9/23/20 1515
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kyle Welchem	Site Contact: S. Mills	Date: 9-22-20	COC No: 1 of 1 COCs
Company Name: GLA Geosciences	Tel/Email: 858-451-1136	Lab Contact: R. Tamayo	Carrier: T A	Sampler: BS, CV, MC
Address: 11415 W. Bernardo Ct	**Analysis Turnaround Time**			**For Lab Use Only:**
City/State/Zip: S.D., CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
Phone: 858-451-1136	TAT if different from Below _____			Lab Sampling:
Fax: 858-451-1087	☐ 2 weeks			Job / SDG No.:
Project Name: Geologic Services	☐ 1 week			
Site: Sunshine Sqr. LF	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260B	SVOC's 8270D	1,4-Dioxane	TPH (C10-C28) (GC)	TPH (C6-C10) (GC/MS)	TDS	Alkalinity (310.1)	Ammonia as N (350.1)	COD (410.4)	Cyanide (335.2)	Perchlorate (331.0)	Sample Specific Notes:
DW-2	9/22/20	0815	G	GW	12			X	X	X	X	X	X	X	X	X	X	X	
DW-3		0925			12			X	X	X	X	X	X	X	X	X	X	X	
DW-5		1144			12			X	X	X	X	X	X	X	X	X	X	X	
PZ-2		0818			12			X	X	X	X	X	X	X	X	X	X	X	
MW-5		1007			12			X	X	X	X	X	X	X	X	X	X	X	
MW-9		1115			12			X	X	X	X	X	X	X	X	X	X	X	
MW-1		1145	G	GW	12			X	X	X	X	X	X	X	X	X	X	X	
Extraction Travel		0912	G	WG	12			X	X	X	X	X	X	X	X	X	X	X	
LY-7		0718	G	GW	12			X	X	X	X	X	X	X	X	X	X	X	
Field Blank	↓	—	G	WG	4			X											
Trip Blank	9/22/20	—	G	"	4			X											

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Geo-Logic	9-22-20 1500		EC-IRV	9/22/20 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kyle Wetchaus	Site Contact: S. Mills	Date: 9-21-20	COC No:
Company Name: GLA / Republic	Tel/Email: 858-451-1156	Lab Contact: R. Tamera	Carrier: T/A	1 of 2 COCs
Address: 11415 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: BS, MC, CV
City/State/Zip: S.D., Ca. 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below _____			Walk-in Client:
Fax: 858-451-1087	☐ 2 weeks			Lab Sampling:
Project Name: Republic Services, Inc	☐ 1 week			
Site: Sunshine Cyn. 4F	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOC's 8260B	SVOC's 8270 1,4-	Dioxane	T.O.C. (415.1)	TDS (160.1)	Total Alkalinity (310.1)	Ammonia as N (350.2)	COD (410.4)	Chloride (300.0)	Total Potassium (6010B)	Sample Specific Notes:
CM-9R3	9/21/20	1020	G	GW	12			X	X	X	X	X	X	X	X	X	X	
CM-10R	↓	1130	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
CM-11R	↓	0915	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
DW-1	↓	1115	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
Combined Subdrains	↓	0940	↓	WW	12			X	X	X	X	X	X	X	X	X	X	
Subdrain N	↓	1150	↓	WW	12			X	X	X	X	X	X	X	X	X	X	
Duplicate	↓	—	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-6	↓	1032	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-13R	↓	1249	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-14	↓	0847	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
PZ-4	↓	1306	↓	GW	12			X	X	X	X	X	X	X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

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Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geo-Logic	9-21-20 1507	[signature]	EHRC	9/21/20 1507
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

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Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kyle Wetherby	Site Contact: J. Mills	Date: 9-21-20	COC No:
Company Name: GLA / Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tomara	Carrier: T/A	2 of 2 COCs
Address: 11415 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: RS
City/State/Zip: S.D. Ca. 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below _____			Walk-in Client:
Fax: 858-451-1087	☐ 2 weeks			Lab Sampling:
Project Name: Republic Services	☐ 1 week			
Site: Sunshine Gen. 4F	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	NOCs 8260B	Sample Specific Notes:
Field Blank	9/21/20	—	G	LAB H2O	4			X	
Trip Blank	9/21/20	—	G	"	4			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geo-Logic	9-21-20 1507	[signature]	FCI-1800	9/21/20 1507
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-272100-1
Client Project/Site: Republic Sunshine Canyon

For:
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Attn: Kyle Welchans

Authorized for release by:
10/6/2020 9:34:12 AM

Rossina Tomova, Project Manager I
(949)260-3276
Rossina.Tomova@Eurofinset.com

LINKS

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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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Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-272100-1	CM-9R3	Water	09/21/20 10:20	09/21/20 15:07	
440-272100-2	CM-10R	Water	09/21/20 11:30	09/21/20 15:07	
440-272100-3	CM-11R	Water	09/21/20 09:15	09/21/20 15:07	
440-272100-4	DW-1	Water	09/21/20 11:15	09/21/20 15:07	
440-272100-5	Combined Subdrains	Water	09/21/20 09:40	09/21/20 15:07	
440-272100-6	Subdrain N	Water	09/21/20 11:50	09/21/20 15:07	
440-272100-7	Duplicate	Water	09/21/20 00:01	09/21/20 15:07	
440-272100-8	MW-6	Water	09/21/20 10:32	09/21/20 15:07	
440-272100-9	MW-13R	Water	09/21/20 12:49	09/21/20 15:07	
440-272100-10	MW-14	Water	09/21/20 08:47	09/21/20 15:07	
440-272100-11	PZ-4	Water	09/21/20 13:06	09/21/20 15:07	
440-272100-12	Field Blank	Water	09/21/20 00:01	09/21/20 15:07	
440-272100-13	Trip Blank	Water	09/21/20 00:01	09/21/20 15:07	

Job ID: 440-272100-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-272100-1

Comments
No additional comments.

Receipt
The samples were received on 9/21/2020 3:07 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.5º C, 0.7º C, 1.0º C and 1.0º C.

GC/MS VOA
Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-97037.

Method 8260B: The following sample was diluted due to the nature of the sample matrix: MW-13R (440-272100-9). Elevated reporting limits (RLs) are provided.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 570-97365 recovered outside control limits for the following analytes: Isobutyl Alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-97365 were outside control limits: (440-272125-A-9 MS) and (440-272125-A-9 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The method blank for analytical batch 570-97477 contained Chloroform, Bromodichloromethane above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-97477.

Method 8260B: The lot test of the laboratory trip blank water associated with 440-272100-C-13 indicated a detection above, the method detection limit (MDL) for the following analyte(s): Methylene Chloride.

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

GC/MS Semi VOA
Method 8270C SIM ID: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-96835 and analytical batch 570-97808 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Metals
Method 3005A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 6: Subdrain (440-272100-6). The sample(s) was preserved to the appropriate pH in the laboratory. Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

2.0mL of 1:1 HNO3 was added on 09/22/20
1:1 HNO3 Reagent # 6330508

Job ID: 440-272100-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

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

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

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

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

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: CM-9R3
Date Collected: 09/21/20 10:20
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 20:58	1
Acrolein	ND		10	0.59	ug/L			09/24/20 20:58	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 20:58	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 20:58	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 20:58	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 20:58	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 20:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 20:58	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 20:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 20:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 20:58	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 20:58	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 20:58	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 20:58	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 20:58	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 20:58	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 20:58	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 20:58	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 20:58	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 20:58	1
Acetone	ND		10	4.0	ug/L			09/24/20 20:58	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 20:58	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 20:58	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 20:58	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 20:58	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 20:58	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 20:58	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 20:58	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 20:58	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 20:58	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 20:58	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 20:58	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 20:58	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 20:58	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 20:58	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 20:58	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 20:58	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 20:58	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 20:58	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 20:58	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 20:58	1
Iodomethane	ND		25	14	ug/L			09/24/20 20:58	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 20:58	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 20:58	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 20:58	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 20:58	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 20:58	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 20:58	1

Client Sample ID: CM-9R3

Date Collected: 09/21/20 10:20
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 20:58	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 20:58	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 20:58	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 20:58	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 20:58	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 20:58	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 20:58	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 20:58	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 20:58	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 20:58	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 20:58	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 20:58	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 20:58	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 20:58	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 20:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 20:58	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 20:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*1.66*			*09/24/20 20:58*	*1*
Unknown	*81*	*T J*	*ug/L*		*1.70*			*09/24/20 20:58*	*1*
Unknown	*13*	*T J*	*ug/L*		*2.09*			*09/24/20 20:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/24/20 20:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 20:58*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/24/20 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 128*		*09/24/20 20:58*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/24/20 20:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 20:58*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/24/20 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 128*		*09/24/20 20:58*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 10:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*47*		*15 - 150*	*09/24/20 08:07*	*09/29/20 10:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*46 - 128*	*09/24/20 08:07*	*09/29/20 10:24*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		5.0	2.5	mg/L			09/25/20 20:22	10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**12**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:21	1

Client Sample ID: CM-9R3

Date Collected: 09/21/20 10:20
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-1

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**6.3**		0.20	0.10	mg/L			09/23/20 14:02	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/27/20 14:51	1
Total Dissolved Solids	**4000**		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	**7.1**		0.10	0.050	mg/L			09/23/20 07:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**250**		4.0	4.0	mg/L			09/22/20 05:27	1

Client Sample ID: CM-10R

Date Collected: 09/21/20 11:30
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 21:26	1
Acrolein	ND		10	0.59	ug/L			09/24/20 21:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 21:26	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 21:26	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 21:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 21:26	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 21:26	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 21:26	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 21:26	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 21:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 21:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 21:26	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 21:26	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 21:26	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 21:26	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 21:26	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 21:26	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 21:26	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 21:26	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 21:26	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 21:26	1
Acetone	ND		10	4.0	ug/L			09/24/20 21:26	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 21:26	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 21:26	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 21:26	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 21:26	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 21:26	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 21:26	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 21:26	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 21:26	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 21:26	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 21:26	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 21:26	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 21:26	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 21:26	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 21:26	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 21:26	1

Client Sample ID: CM-10R
Date Collected: 09/21/20 11:30
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 21:26	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 21:26	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 21:26	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 21:26	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 21:26	1
Iodomethane	ND		25	14	ug/L			09/24/20 21:26	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 21:26	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 21:26	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 21:26	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 21:26	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 21:26	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 21:26	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 21:26	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 21:26	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 21:26	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 21:26	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 21:26	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 21:26	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 21:26	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 21:26	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 21:26	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 21:26	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 21:26	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 21:26	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 21:26	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 21:26	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 21:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 21:26	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 21:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 21:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*15*	*T J*	*ug/L*		*1.51*			*09/24/20 21:26*	*1*
Unknown	*16*	*T J*	*ug/L*		*1.63*			*09/24/20 21:26*	*1*
Unknown	*44*	*T J*	*ug/L*		*1.69*			*09/24/20 21:26*	*1*
Unknown	*15*	*T J*	*ug/L*		*1.88*			*09/24/20 21:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 21:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 21:26*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 127*		*09/24/20 21:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 128*		*09/24/20 21:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 21:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 21:26*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 127*		*09/24/20 21:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 128*		*09/24/20 21:26*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 10:40	1

Client Sample ID: CM-10R

Date Collected: 09/21/20 11:30
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-2

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	45		15 - 150	09/24/20 08:07	09/29/20 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	71		46 - 128	09/24/20 08:07	09/29/20 10:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		2.5	1.3	mg/L			09/25/20 20:38	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	11		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	10		0.20	0.10	mg/L			09/23/20 14:07	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/27/20 14:51	1
Total Dissolved Solids	2600		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	4.3		0.10	0.050	mg/L			09/23/20 07:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	470		4.0	4.0	mg/L			09/22/20 05:47	1

Client Sample ID: CM-11R

Date Collected: 09/21/20 09:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 21:53	1
Acrolein	ND		10	0.59	ug/L			09/24/20 21:53	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 21:53	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 21:53	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 21:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 21:53	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 21:53	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 21:53	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 21:53	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 21:53	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 21:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 21:53	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 21:53	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 21:53	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 21:53	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 21:53	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 21:53	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 21:53	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 21:53	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 21:53	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 21:53	1
Acetone	ND		10	4.0	ug/L			09/24/20 21:53	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 21:53	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 21:53	1

Client Sample ID: CM-11R
Date Collected: 09/21/20 09:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 21:53	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 21:53	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 21:53	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 21:53	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 21:53	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 21:53	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 21:53	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 21:53	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 21:53	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 21:53	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 21:53	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 21:53	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 21:53	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 21:53	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 21:53	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 21:53	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 21:53	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 21:53	1
Iodomethane	ND		25	14	ug/L			09/24/20 21:53	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 21:53	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 21:53	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 21:53	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 21:53	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 21:53	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 21:53	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 21:53	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 21:53	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 21:53	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 21:53	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 21:53	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 21:53	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 21:53	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 21:53	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 21:53	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 21:53	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 21:53	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 21:53	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 21:53	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 21:53	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 21:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 21:53	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 21:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 21:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*78*	*T J*	*ug/L*		*1.70*			*09/24/20 21:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 21:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*09/24/20 21:53*	*1*

Client Sample ID: CM-11R

Date Collected: 09/21/20 09:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-3

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*107*		*80 - 127*		*09/24/20 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*80 - 128*		*09/24/20 21:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 21:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*09/24/20 21:53*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 127*		*09/24/20 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*80 - 128*		*09/24/20 21:53*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 10:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*50*		*15 - 150*	*09/24/20 08:07*	*09/29/20 10:56*	*1*

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*63*		*46 - 128*	*09/24/20 08:07*	*09/29/20 10:56*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	2.5	mg/L			09/25/20 20:54	10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**10**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.4**		0.20	0.10	mg/L			09/23/20 14:13	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/27/20 14:51	1
Total Dissolved Solids	**3500**		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	**5.4**		0.10	0.050	mg/L			09/23/20 07:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**49**		4.0	4.0	mg/L			09/22/20 05:53	1

Client Sample ID: DW-1

Date Collected: 09/21/20 11:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 22:20	1
Acrolein	ND		10	0.59	ug/L			09/24/20 22:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 22:20	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 22:20	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 22:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 22:20	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 22:20	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 22:20	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 22:20	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 22:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 22:20	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: DW-1
Date Collected: 09/21/20 11:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 22:20	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 22:20	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 22:20	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 22:20	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 22:20	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 22:20	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 22:20	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 22:20	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 22:20	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 22:20	1
Acetone	ND		10	4.0	ug/L			09/24/20 22:20	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 22:20	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 22:20	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 22:20	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 22:20	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 22:20	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 22:20	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 22:20	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 22:20	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 22:20	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 22:20	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 22:20	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 22:20	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 22:20	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 22:20	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 22:20	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 22:20	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 22:20	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 22:20	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 22:20	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 22:20	1
Iodomethane	ND		25	14	ug/L			09/24/20 22:20	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 22:20	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 22:20	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 22:20	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 22:20	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 22:20	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 22:20	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 22:20	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 22:20	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 22:20	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 22:20	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 22:20	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 22:20	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 22:20	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 22:20	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 22:20	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 22:20	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 22:20	1

Client Sample ID: DW-1

Date Collected: 09/21/20 11:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 22:20	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 22:20	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 22:20	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 22:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 22:20	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 22:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 22:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*25*	*T J*	*ug/L*		*1.60*			*09/24/20 22:20*	*1*
Cyclopropane	*70*	*T J N*	*ug/L*		*1.70*	*75-19-4*		*09/24/20 22:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 22:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*09/24/20 22:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/24/20 22:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 22:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*09/24/20 22:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 22:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/24/20 22:20*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 11:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*53*		*15 - 150*	*09/24/20 08:07*	*09/29/20 11:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*95*		*46 - 128*	*09/24/20 08:07*	*09/29/20 11:11*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		5.0	2.5	mg/L			09/25/20 21:10	10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.6**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.0**		0.20	0.10	mg/L			09/23/20 14:18	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/27/20 14:52	1
Total Dissolved Solids	**3200**		50	25	mg/L			09/23/20 09:22	1
Total Organic Carbon	**3.8**		0.10	0.050	mg/L			09/23/20 08:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**530**		4.0	4.0	mg/L			09/22/20 06:06	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: Combined Subdrains
Date Collected: 09/21/20 09:40
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 20:18	1
Acrolein	ND		10	0.59	ug/L			09/26/20 03:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 20:18	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 03:00	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 20:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 20:18	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 20:18	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 20:18	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 20:18	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 20:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 20:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 20:18	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 20:18	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 20:18	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 20:18	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 20:18	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 20:18	1
1,4-Dichlorobenzene	**1.1**		0.50	0.073	ug/L			09/26/20 20:18	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 20:18	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 20:18	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 20:18	1
Acetone	**23**		10	4.0	ug/L			09/26/20 20:18	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 20:18	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 20:18	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 20:18	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 20:18	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 20:18	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 20:18	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 20:18	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 20:18	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 20:18	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 20:18	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 20:18	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 20:18	1
cis-1,2-Dichloroethene	**2.3**		0.50	0.11	ug/L			09/26/20 20:18	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 20:18	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 20:18	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 20:18	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 20:18	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 20:18	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 20:18	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 20:18	1
Iodomethane	ND		25	14	ug/L			09/26/20 20:18	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 20:18	1
m,p-Xylene	**0.30**	**J**	1.0	0.15	ug/L			09/26/20 20:18	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 20:18	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 20:18	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 20:18	1
Methyl tert-butyl ether	**0.074**	**J**	0.50	0.067	ug/L			09/26/20 20:18	1

Client Sample ID: Combined Subdrains

Date Collected: 09/21/20 09:40
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.54**	**J**	1.0	0.097	ug/L			09/26/20 20:18	1
o-Xylene	**0.16**	**J**	0.50	0.086	ug/L			09/26/20 20:18	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 20:18	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 20:18	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 20:18	1
Tetrachloroethene	**0.38**	**J**	0.50	0.24	ug/L			09/26/20 20:18	1
Tetrahydrofuran	**2.7**		2.0	0.57	ug/L			09/26/20 20:18	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 20:18	1
trans-1,2-Dichloroethene	**0.32**	**J**	0.50	0.082	ug/L			09/26/20 20:18	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 20:18	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 20:18	1
Trichloroethene	**0.52**		0.50	0.10	ug/L			09/26/20 20:18	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 20:18	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 20:18	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 20:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 20:18	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 20:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 20:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*87*	*T J*	*ug/L*		*1.43*			*09/26/20 20:18*	*1*
Unknown	*50*	*T J*	*ug/L*		*1.45*			*09/26/20 20:18*	*1*
Unknown	*1400*	*T J*	*ug/L*		*1.49*			*09/26/20 20:18*	*1*
Unknown	*24*	*T J*	*ug/L*		*1.62*			*09/26/20 20:18*	*1*
Unknown	*24*	*T J*	*ug/L*		*1.66*			*09/26/20 20:18*	*1*
Sulfur dioxide	*26*	*T J N*	*ug/L*		*1.76*	*7446-09-5*		*09/26/20 20:18*	*1*
Unknown	*23*	*T J*	*ug/L*		*1.92*			*09/26/20 20:18*	*1*
Ethyl ether	*110*	*T J N*	*ug/L*		*3.02*	*60-29-7*		*09/26/20 20:18*	*1*
Unknown	*41*	*T J*	*ug/L*		*4.18*			*09/26/20 20:18*	*1*
3-Carene	*1.4*	*T J N*	*ug/L*		*13.55*	*13466-78-9*		*09/26/20 20:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/20 03:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 03:00*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 127*		*09/26/20 03:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*09/26/20 03:00*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/20 20:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*09/26/20 20:18*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 127*		*09/26/20 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*09/26/20 20:18*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**26**		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 11:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/24/20 08:07*	*09/29/20 11:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*46 - 128*	*09/24/20 08:07*	*09/29/20 11:27*	*1*

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-272100-5

Date Collected: 09/21/20 09:40
Matrix: Water
Date Received: 09/21/20 15:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		25	13	mg/L			09/26/20 04:44	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	17		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	8.4		0.20	0.10	mg/L			09/23/20 14:48	1
Chemical Oxygen Demand	18	J	20	10	mg/L			09/27/20 14:52	1
Total Dissolved Solids	3300		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	28		0.50	0.25	mg/L			09/23/20 11:53	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	460		4.0	4.0	mg/L			09/22/20 06:16	1

Client Sample ID: Subdrain N

Lab Sample ID: 440-272100-6

Date Collected: 09/21/20 11:50
Matrix: Water
Date Received: 09/21/20 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 20:44	1
Acrolein	ND		10	0.59	ug/L			09/26/20 03:26	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 20:44	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 03:26	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 20:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 20:44	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 20:44	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 20:44	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 20:44	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 20:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 20:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 20:44	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 20:44	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 20:44	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 20:44	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 20:44	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 20:44	1
1,4-Dichlorobenzene	1.3		0.50	0.073	ug/L			09/26/20 20:44	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 20:44	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 20:44	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 20:44	1
Acetone	ND		10	4.0	ug/L			09/26/20 20:44	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 20:44	1
Benzene	0.35	J	0.50	0.072	ug/L			09/26/20 20:44	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 20:44	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 20:44	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 20:44	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 20:44	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 20:44	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: Subdrain N
Date Collected: 09/21/20 11:50
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 20:44	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 20:44	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 20:44	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 20:44	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 20:44	1
cis-1,2-Dichloroethene	**0.52**		0.50	0.11	ug/L			09/26/20 20:44	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 20:44	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 20:44	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 20:44	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 20:44	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 20:44	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 20:44	1
Ethylbenzene	**0.16**	**J**	0.50	0.087	ug/L			09/26/20 20:44	1
Iodomethane	ND		25	14	ug/L			09/26/20 20:44	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 20:44	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 20:44	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 20:44	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 20:44	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 20:44	1
Methyl tert-butyl ether	**0.71**		0.50	0.067	ug/L			09/26/20 20:44	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 20:44	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 20:44	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 20:44	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 20:44	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 20:44	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 20:44	1
Tetrahydrofuran	**9.7**		2.0	0.57	ug/L			09/26/20 20:44	1
Toluene	**0.098**	**J**	0.50	0.093	ug/L			09/26/20 20:44	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 20:44	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 20:44	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 20:44	1
Trichloroethene	**0.11**	**J**	0.50	0.10	ug/L			09/26/20 20:44	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 20:44	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 20:44	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 20:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 20:44	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 20:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 20:44	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
N(1,1-Difluoro-2,2-bis-trifluor-methyl ethyl)-aziridine	*80*	*T J N*	*ug/L*		*1.43*	*1000143-33-6*		*09/26/20 20:44*	*1*
2H-Pyran-2-acetic acid, tetrahydro-6-methyl-, cis-	*71*	*T J N*	*ug/L*		*1.44*	*69493-11-4*		*09/26/20 20:44*	*1*
Unknown	*2000*	*T J*	*ug/L*		*1.49*			*09/26/20 20:44*	*1*
Unknown	*46*	*T J*	*ug/L*		*1.57*			*09/26/20 20:44*	*1*
Unknown	*71*	*T J*	*ug/L*		*1.62*			*09/26/20 20:44*	*1*
Unknown	*28*	*T J*	*ug/L*		*1.67*			*09/26/20 20:44*	*1*
1-Propene, 2-methyl-	*190*	*T J N*	*ug/L*		*1.92*	*115-11-7*		*09/26/20 20:44*	*1*

Client Sample ID: Subdrain N

Date Collected: 09/21/20 11:50
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-6

Matrix: Water

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethene, ethyloxy-	84	T J N	ug/L		3.02	1000221-95-9		09/26/20 20:44	1
Silane, methoxytrimethyl-	250	T J N	ug/L		4.18	1825-61-2		09/26/20 20:44	1
Benzene, 1-chloro-4-(trifluoromethyl)-	8.4	T J N	ug/L		11.14	98-56-6		09/26/20 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/26/20 03:26	1
4-Bromofluorobenzene (Surr)	94		68 - 120		09/26/20 03:26	1
Dibromofluoromethane (Surr)	104		80 - 127		09/26/20 03:26	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 128		09/26/20 03:26	1
Toluene-d8 (Surr)	102		80 - 120		09/26/20 20:44	1
4-Bromofluorobenzene (Surr)	93		68 - 120		09/26/20 20:44	1
Dibromofluoromethane (Surr)	102		80 - 127		09/26/20 20:44	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 128		09/26/20 20:44	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	36		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 11:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	37		15 - 150	09/24/20 08:07	09/29/20 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	56		46 - 128	09/24/20 08:07	09/29/20 11:43	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		25	13	mg/L			09/26/20 05:00	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	32		13	6.3	mg/L		09/24/20 08:57	09/24/20 15:01	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	32		2.0	1.0	mg/L			09/23/20 15:35	10
Chemical Oxygen Demand	510		200	100	mg/L			09/27/20 14:52	10
Total Dissolved Solids	4100		50	25	mg/L			09/23/20 09:22	1
Total Organic Carbon	570		10	5.0	mg/L			09/23/20 05:41	100

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	960		4.0	4.0	mg/L			09/22/20 07:42	1

Client Sample ID: Duplicate

Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 22:47	1
Acrolein	ND		10	0.59	ug/L			09/24/20 22:47	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 22:47	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: Duplicate
Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 22:47	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 22:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 22:47	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 22:47	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 22:47	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 22:47	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 22:47	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 22:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 22:47	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 22:47	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 22:47	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 22:47	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 22:47	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 22:47	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 22:47	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 22:47	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 22:47	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 22:47	1
Acetone	ND		10	4.0	ug/L			09/24/20 22:47	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 22:47	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 22:47	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 22:47	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 22:47	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 22:47	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 22:47	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 22:47	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 22:47	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 22:47	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 22:47	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 22:47	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 22:47	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 22:47	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 22:47	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 22:47	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 22:47	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 22:47	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 22:47	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 22:47	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 22:47	1
Iodomethane	ND		25	14	ug/L			09/24/20 22:47	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 22:47	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 22:47	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 22:47	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 22:47	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 22:47	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 22:47	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 22:47	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 22:47	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 22:47	1

Client Sample ID: Duplicate

Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.059	ug/L			09/24/20 22:47	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 22:47	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 22:47	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 22:47	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 22:47	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 22:47	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 22:47	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 22:47	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 22:47	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 22:47	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 22:47	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 22:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 22:47	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 22:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 22:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*12*	*T J*	*ug/L*		*1.65*			*09/24/20 22:47*	*1*
Unknown	*35*	*T J*	*ug/L*		*1.71*			*09/24/20 22:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 22:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*09/24/20 22:47*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 127*		*09/24/20 22:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 128*		*09/24/20 22:47*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 22:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*09/24/20 22:47*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 127*		*09/24/20 22:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 128*		*09/24/20 22:47*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:18	09/25/20 08:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*51*		*15 - 150*	*09/24/20 08:18*	*09/25/20 08:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*79*		*46 - 128*	*09/24/20 08:18*	*09/25/20 08:32*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		5.0	2.5	mg/L			09/25/20 21:58	10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**13**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**6.4**		0.20	0.10	mg/L			09/23/20 14:54	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:28	1

Client Sample ID: Duplicate

Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-7
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4000		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	6.8		0.10	0.050	mg/L			09/23/20 05:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	250		4.0	4.0	mg/L			09/22/20 06:24	1

Client Sample ID: MW-6

Date Collected: 09/21/20 10:32
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 23:14	1
Acrolein	ND		10	0.59	ug/L			09/24/20 23:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 23:14	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 23:14	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 23:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 23:14	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 23:14	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 23:14	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 23:14	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 23:14	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 23:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 23:14	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 23:14	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 23:14	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 23:14	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 23:14	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 23:14	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 23:14	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 23:14	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 23:14	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 23:14	1
Acetone	ND		10	4.0	ug/L			09/24/20 23:14	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 23:14	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 23:14	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 23:14	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 23:14	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 23:14	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 23:14	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 23:14	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 23:14	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 23:14	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 23:14	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 23:14	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 23:14	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 23:14	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 23:14	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 23:14	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 23:14	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 23:14	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: MW-6
Date Collected: 09/21/20 10:32
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 23:14	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 23:14	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 23:14	1
Iodomethane	ND		25	14	ug/L			09/24/20 23:14	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 23:14	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 23:14	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 23:14	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 23:14	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 23:14	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 23:14	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 23:14	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 23:14	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 23:14	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 23:14	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 23:14	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 23:14	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 23:14	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 23:14	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 23:14	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 23:14	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 23:14	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 23:14	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 23:14	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 23:14	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 23:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 23:14	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 23:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 23:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*43*	*T J*	*ug/L*		*1.69*			*09/24/20 23:14*	*1*
Unknown	*12*	*T J*	*ug/L*		*1.97*			*09/24/20 23:14*	*1*
Unknown	*100*	*T J*	*ug/L*		*2.21*			*09/24/20 23:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/24/20 23:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/24/20 23:14*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 23:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/24/20 23:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/24/20 23:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/24/20 23:14*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 23:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/24/20 23:14*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:18	09/26/20 10:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/24/20 08:18*	*09/26/20 10:08*	*1*

Client Sample ID: MW-6

Lab Sample ID: 440-272100-8

Date Collected: 09/21/20 10:32

Matrix: Water

Date Received: 09/21/20 15:07

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*113*		*46 - 128*	*09/24/20 08:18*	*09/26/20 10:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40**		2.5	1.3	mg/L			09/25/20 22:14	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.4**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.85**		0.20	0.10	mg/L			09/23/20 14:59	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:29	1
Total Dissolved Solids	**3600**		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	**6.2**		0.10	0.050	mg/L			09/23/20 08:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**450**		4.0	4.0	mg/L			09/22/20 06:36	1

Client Sample ID: MW-13R

Lab Sample ID: 440-272100-9

Date Collected: 09/21/20 12:49

Matrix: Water

Date Received: 09/21/20 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		4.0	0.31	ug/L			09/26/20 05:40	4
Acrolein	ND		40	2.4	ug/L			09/26/20 05:40	4
1,1,1,2-Tetrachloroethane	ND		2.0	0.28	ug/L			09/26/20 05:40	4
Acrylonitrile	ND		20	2.3	ug/L			09/26/20 05:40	4
1,1,1-Trichloroethane	ND		2.0	0.34	ug/L			09/26/20 05:40	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.35	ug/L			09/26/20 05:40	4
1,1,2-Trichloroethane	ND		2.0	0.28	ug/L			09/26/20 05:40	4
1,1-Dichloroethane	ND		2.0	0.24	ug/L			09/26/20 05:40	4
1,1-Dichloroethene	ND		2.0	0.41	ug/L			09/26/20 05:40	4
1,1-Dichloropropene	ND		2.0	0.28	ug/L			09/26/20 05:40	4
1,2,4-Trichlorobenzene	ND		2.0	0.36	ug/L			09/26/20 05:40	4
1,2-Dibromo-3-Chloropropane	ND		20	2.1	ug/L			09/26/20 05:40	4
1,2-Dichlorobenzene	ND		2.0	0.33	ug/L			09/26/20 05:40	4
1,2-Dichloroethane	ND		2.0	0.30	ug/L			09/26/20 05:40	4
1,2-Dichloropropane	ND		2.0	0.39	ug/L			09/26/20 05:40	4
1,3-Dichlorobenzene	ND		2.0	0.39	ug/L			09/26/20 05:40	4
1,3-Dichloropropane	ND		4.0	0.33	ug/L			09/26/20 05:40	4
1,4-Dichlorobenzene	ND		2.0	0.29	ug/L			09/26/20 05:40	4
2,2-Dichloropropane	ND		4.0	1.5	ug/L			09/26/20 05:40	4
2-Chloro-1,3-butadiene	ND		40	0.38	ug/L			09/26/20 05:40	4
2-Hexanone	ND		40	2.0	ug/L			09/26/20 05:40	4
Acetone	ND		40	16	ug/L			09/26/20 05:40	4
Acetonitrile	ND		40	8.0	ug/L			09/26/20 05:40	4
Benzene	ND		2.0	0.29	ug/L			09/26/20 05:40	4
Allyl chloride	ND		8.0	2.2	ug/L			09/26/20 05:40	4
Bromoform	ND		2.0	0.39	ug/L			09/26/20 05:40	4

Client Sample ID: MW-13R
Date Collected: 09/21/20 12:49
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		8.0	4.0	ug/L			09/26/20 05:40	4
Carbon disulfide	ND		40	1.5	ug/L			09/26/20 05:40	4
Carbon tetrachloride	ND		2.0	0.23	ug/L			09/26/20 05:40	4
Chlorobenzene	ND		2.0	0.35	ug/L			09/26/20 05:40	4
Bromochloromethane	ND		4.0	0.33	ug/L			09/26/20 05:40	4
Chloroethane	ND		2.0	0.47	ug/L			09/26/20 05:40	4
Chloroform	ND		2.0	0.25	ug/L			09/26/20 05:40	4
Chloromethane	ND		20	7.8	ug/L			09/26/20 05:40	4
cis-1,2-Dichloroethene	ND		2.0	0.43	ug/L			09/26/20 05:40	4
cis-1,3-Dichloropropene	ND		2.0	0.38	ug/L			09/26/20 05:40	4
Dibromochloromethane	ND		2.0	0.25	ug/L			09/26/20 05:40	4
Dibromomethane	ND		2.0	0.50	ug/L			09/26/20 05:40	4
Bromodichloromethane	ND		2.0	0.21	ug/L			09/26/20 05:40	4
Dichlorodifluoromethane	ND		4.0	0.40	ug/L			09/26/20 05:40	4
Ethyl methacrylate	ND		8.0	0.22	ug/L			09/26/20 05:40	4
Ethylbenzene	ND		2.0	0.35	ug/L			09/26/20 05:40	4
Iodomethane	ND		100	57	ug/L			09/26/20 05:40	4
Isobutyl alcohol	ND	*	40	7.5	ug/L			09/26/20 05:40	4
m,p-Xylene	ND		4.0	0.59	ug/L			09/26/20 05:40	4
Methylacrylonitrile	ND		8.0	1.7	ug/L			09/26/20 05:40	4
Methyl methacrylate	ND		8.0	1.9	ug/L			09/26/20 05:40	4
Methylene Chloride	ND		4.0	0.17	ug/L			09/26/20 05:40	4
Methyl tert-butyl ether	ND		2.0	0.27	ug/L			09/26/20 05:40	4
Naphthalene	ND		4.0	0.39	ug/L			09/26/20 05:40	4
o-Xylene	ND		2.0	0.34	ug/L			09/26/20 05:40	4
Propionitrile	ND		20	4.1	ug/L			09/26/20 05:40	4
Styrene	ND		2.0	0.23	ug/L			09/26/20 05:40	4
t-Butanol	ND		40	16	ug/L			09/26/20 05:40	4
Tetrachloroethene	ND		2.0	0.97	ug/L			09/26/20 05:40	4
Tetrahydrofuran	ND		8.0	2.3	ug/L			09/26/20 05:40	4
Toluene	ND		2.0	0.37	ug/L			09/26/20 05:40	4
trans-1,2-Dichloroethene	ND		2.0	0.33	ug/L			09/26/20 05:40	4
trans-1,3-Dichloropropene	ND		2.0	0.21	ug/L			09/26/20 05:40	4
trans-1,4-Dichloro-2-butene	ND		8.0	0.55	ug/L			09/26/20 05:40	4
Trichloroethene	ND		2.0	0.41	ug/L			09/26/20 05:40	4
Trichlorofluoromethane	ND		2.0	0.41	ug/L			09/26/20 05:40	4
Vinyl acetate	ND		20	2.8	ug/L			09/26/20 05:40	4
Vinyl chloride	ND		2.0	0.31	ug/L			09/26/20 05:40	4
1,2-Dibromoethane (EDB)	ND		2.0	0.24	ug/L			09/26/20 05:40	4
2-Butanone (MEK)	ND		20	1.8	ug/L			09/26/20 05:40	4
4-Methyl-2-pentanone (MIBK)	ND		20	1.7	ug/L			09/26/20 05:40	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*33*	*T J*	*ug/L*		*1.49*			*09/26/20 05:40*	*4*
Sulfur dioxide	*210*	*T J N*	*ug/L*		*1.80*	*7446-09-5*		*09/26/20 05:40*	*4*
Sulfur dioxide	*30*	*T J N*	*ug/L*		*1.89*	*7446-09-5*		*09/26/20 05:40*	*4*
Sulfur dioxide	*110*	*T J N*	*ug/L*		*1.96*	*7446-09-5*		*09/26/20 05:40*	*4*
Sulfur dioxide	*130*	*T J N*	*ug/L*		*2.00*	*7446-09-5*		*09/26/20 05:40*	*4*
Sulfur dioxide	*46*	*T J N*	*ug/L*		*2.13*	*7446-09-5*		*09/26/20 05:40*	*4*
Sulfur dioxide	*92*	*T J N*	*ug/L*		*2.19*	*7446-09-5*		*09/26/20 05:40*	*4*

Client Sample ID: MW-13R

Date Collected: 09/21/20 12:49
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-9

Matrix: Water

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Sulfur dioxide	22	T J N	ug/L		2.30	7446-09-5		09/26/20 05:40	4
Sulfur dioxide	38	T J N	ug/L		2.39	7446-09-5		09/26/20 05:40	4
Sulfur dioxide	43	T J N	ug/L		2.55	7446-09-5		09/26/20 05:40	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 05:40	4
4-Bromofluorobenzene (Surr)	90		68 - 120		09/26/20 05:40	4
Dibromofluoromethane (Surr)	106		80 - 127		09/26/20 05:40	4
1,2-Dichloroethane-d4 (Surr)	104		80 - 128		09/26/20 05:40	4
Toluene-d8 (Surr)	100		80 - 120		09/26/20 05:40	4
4-Bromofluorobenzene (Surr)	90		68 - 120		09/26/20 05:40	4
Dibromofluoromethane (Surr)	106		80 - 127		09/26/20 05:40	4
1,2-Dichloroethane-d4 (Surr)	104		80 - 128		09/26/20 05:40	4

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11		0.50	0.18	ug/L		09/24/20 08:18	09/26/20 10:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	48		15 - 150	09/24/20 08:18	09/26/20 10:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	94		46 - 128	09/24/20 08:18	09/26/20 10:24	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		10	5.0	mg/L			09/28/20 16:59	20

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	21		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	6.5		0.20	0.10	mg/L			09/23/20 15:04	1
Chemical Oxygen Demand	230		20	10	mg/L			09/29/20 15:29	1
Total Dissolved Solids	1100		10	5.0	mg/L			09/23/20 09:22	1
Total Organic Carbon	26		0.50	0.25	mg/L			09/23/20 10:13	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	710		4.0	4.0	mg/L			09/22/20 06:53	1

Client Sample ID: MW-14

Date Collected: 09/21/20 08:47
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 23:41	1
Acrolein	ND		10	0.59	ug/L			09/24/20 23:41	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 23:41	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 23:41	1

Client Sample ID: MW-14
Date Collected: 09/21/20 08:47
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 23:41	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 23:41	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 23:41	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 23:41	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 23:41	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 23:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 23:41	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 23:41	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 23:41	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 23:41	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 23:41	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 23:41	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 23:41	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 23:41	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 23:41	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 23:41	1
Acetone	ND		10	4.0	ug/L			09/24/20 23:41	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 23:41	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 23:41	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 23:41	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 23:41	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 23:41	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 23:41	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 23:41	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 23:41	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 23:41	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 23:41	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 23:41	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 23:41	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 23:41	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 23:41	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 23:41	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 23:41	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 23:41	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 23:41	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 23:41	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 23:41	1
Iodomethane	ND		25	14	ug/L			09/24/20 23:41	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 23:41	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 23:41	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 23:41	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 23:41	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 23:41	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 23:41	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 23:41	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 23:41	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 23:41	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 23:41	1

Client Sample ID: MW-14
Date Collected: 09/21/20 08:47
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		10	4.0	ug/L			09/24/20 23:41	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 23:41	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 23:41	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 23:41	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 23:41	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 23:41	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 23:41	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 23:41	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 23:41	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 23:41	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 23:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 23:41	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 23:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*19*	*T J*	*ug/L*		*1.64*			*09/24/20 23:41*	*1*
Unknown	*24*	*T J*	*ug/L*		*1.70*			*09/24/20 23:41*	*1*
Unknown	*19*	*T J*	*ug/L*		*1.84*			*09/24/20 23:41*	*1*
Unknown	*140*	*T J*	*ug/L*		*2.21*			*09/24/20 23:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 23:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*09/24/20 23:41*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 23:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 128*		*09/24/20 23:41*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 23:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*		*09/24/20 23:41*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/24/20 23:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 128*		*09/24/20 23:41*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:18	09/26/20 10:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*55*		*15 - 150*	*09/24/20 08:18*	*09/26/20 10:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*93*		*46 - 128*	*09/24/20 08:18*	*09/26/20 10:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60**		2.5	1.3	mg/L			09/26/20 00:34	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**8.3**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			09/23/20 15:10	1

Client Sample ID: MW-14

Lab Sample ID: 440-272100-10

Date Collected: 09/21/20 08:47

Matrix: Water

Date Received: 09/21/20 15:07

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:29	1
Total Dissolved Solids	**3500**		20	10	mg/L			09/23/20 09:22	1
Total Organic Carbon	**5.0**		0.10	0.050	mg/L			09/23/20 06:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**310**		4.0	4.0	mg/L			09/22/20 07:16	1

Client Sample ID: PZ-4

Lab Sample ID: 440-272100-11

Date Collected: 09/21/20 13:06

Matrix: Water

Date Received: 09/21/20 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/25/20 00:08	1
Acrolein	ND		10	0.59	ug/L			09/25/20 00:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/25/20 00:08	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 00:08	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/25/20 00:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/25/20 00:08	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/25/20 00:08	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/25/20 00:08	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/25/20 00:08	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/25/20 00:08	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/25/20 00:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/25/20 00:08	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/25/20 00:08	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/25/20 00:08	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/25/20 00:08	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/25/20 00:08	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/25/20 00:08	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/25/20 00:08	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/25/20 00:08	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/25/20 00:08	1
2-Hexanone	ND		10	0.50	ug/L			09/25/20 00:08	1
Acetone	ND		10	4.0	ug/L			09/25/20 00:08	1
Acetonitrile	ND		10	2.0	ug/L			09/25/20 00:08	1
Benzene	ND		0.50	0.072	ug/L			09/25/20 00:08	1
Allyl chloride	ND		2.0	0.55	ug/L			09/25/20 00:08	1
Bromoform	ND		0.50	0.096	ug/L			09/25/20 00:08	1
Bromomethane	ND		2.0	0.99	ug/L			09/25/20 00:08	1
Carbon disulfide	ND		10	0.39	ug/L			09/25/20 00:08	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/25/20 00:08	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/25/20 00:08	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/25/20 00:08	1
Chloroethane	ND		0.50	0.12	ug/L			09/25/20 00:08	1
Chloroform	ND		0.50	0.062	ug/L			09/25/20 00:08	1
Chloromethane	ND		5.0	2.0	ug/L			09/25/20 00:08	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/25/20 00:08	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/25/20 00:08	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/25/20 00:08	1
Dibromomethane	ND		0.50	0.13	ug/L			09/25/20 00:08	1

Client Sample ID: PZ-4

Date Collected: 09/21/20 13:06
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.053	ug/L			09/25/20 00:08	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/25/20 00:08	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/25/20 00:08	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/25/20 00:08	1
Iodomethane	ND		25	14	ug/L			09/25/20 00:08	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/25/20 00:08	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/25/20 00:08	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/25/20 00:08	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/25/20 00:08	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/25/20 00:08	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/25/20 00:08	1
Naphthalene	ND		1.0	0.097	ug/L			09/25/20 00:08	1
o-Xylene	ND		0.50	0.086	ug/L			09/25/20 00:08	1
Propionitrile	ND		5.0	1.0	ug/L			09/25/20 00:08	1
Styrene	ND		0.50	0.059	ug/L			09/25/20 00:08	1
t-Butanol	ND		10	4.0	ug/L			09/25/20 00:08	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/25/20 00:08	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/25/20 00:08	1
Toluene	ND		0.50	0.093	ug/L			09/25/20 00:08	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/25/20 00:08	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/25/20 00:08	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/25/20 00:08	1
Trichloroethene	ND		0.50	0.10	ug/L			09/25/20 00:08	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/25/20 00:08	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/25/20 00:08	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/25/20 00:08	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/25/20 00:08	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/25/20 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/25/20 00:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*1.67*			*09/25/20 00:08*	*1*
Unknown	*26*	*T J*	*ug/L*		*1.70*			*09/25/20 00:08*	*1*
Unknown	*21*	*T J*	*ug/L*		*1.90*			*09/25/20 00:08*	*1*
Unknown	*17*	*T J*	*ug/L*		*2.09*			*09/25/20 00:08*	*1*
Unknown	*17*	*T J*	*ug/L*		*2.17*			*09/25/20 00:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/25/20 00:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/25/20 00:08*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 127*		*09/25/20 00:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/25/20 00:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/25/20 00:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/25/20 00:08*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 127*		*09/25/20 00:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*80 - 128*		*09/25/20 00:08*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:18	09/26/20 10:55	1

Client Sample ID: PZ-4

Lab Sample ID: 440-272100-11

Date Collected: 09/21/20 13:06

Matrix: Water

Date Received: 09/21/20 15:07

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	42		15 - 150	09/24/20 08:18	09/26/20 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	107		46 - 128	09/24/20 08:18	09/26/20 10:55	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.1**		2.5	1.3	mg/L			09/26/20 00:50	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.1**		0.50	0.25	mg/L		09/22/20 14:40	09/24/20 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.5**		0.20	0.10	mg/L			09/23/20 15:15	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:29	1
Total Dissolved Solids	**1200**		10	5.0	mg/L			09/23/20 09:22	1
Total Organic Carbon	**1.6**		0.10	0.050	mg/L			09/23/20 05:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**330**		4.0	4.0	mg/L			09/22/20 07:25	1

Client Sample ID: Field Blank

Lab Sample ID: 440-272100-12

Date Collected: 09/21/20 00:01

Matrix: Water

Date Received: 09/21/20 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 19:37	1
Acrolein	ND		10	0.59	ug/L			09/24/20 19:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 19:37	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 19:37	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 19:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 19:37	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 19:37	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 19:37	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 19:37	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 19:37	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 19:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 19:37	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 19:37	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 19:37	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 19:37	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 19:37	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 19:37	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 19:37	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 19:37	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 19:37	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 19:37	1
Acetone	**4.2**	**J**	10	4.0	ug/L			09/24/20 19:37	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 19:37	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 19:37	1

Client Sample ID: Field Blank

Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 19:37	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 19:37	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 19:37	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 19:37	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 19:37	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 19:37	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 19:37	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 19:37	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 19:37	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 19:37	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 19:37	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 19:37	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 19:37	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 19:37	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 19:37	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 19:37	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 19:37	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 19:37	1
Iodomethane	ND		25	14	ug/L			09/24/20 19:37	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 19:37	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 19:37	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 19:37	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 19:37	1
Methylene Chloride	**0.27**	**J**	1.0	0.043	ug/L			09/24/20 19:37	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 19:37	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 19:37	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 19:37	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 19:37	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 19:37	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 19:37	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 19:37	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 19:37	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 19:37	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 19:37	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 19:37	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 19:37	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 19:37	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 19:37	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 19:37	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 19:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 19:37	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 19:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 19:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*24*	*T J*	*ug/L*		*1.67*			*09/24/20 19:37*	*1*
Unknown	*37*	*T J*	*ug/L*		*1.69*			*09/24/20 19:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 19:37*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-272100-12

Date Collected: 09/21/20 00:01

Matrix: Water

Date Received: 09/21/20 15:07

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 19:37*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/24/20 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 128*		*09/24/20 19:37*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/24/20 19:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 19:37*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/24/20 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 128*		*09/24/20 19:37*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-272100-13

Date Collected: 09/21/20 00:01

Matrix: Water

Date Received: 09/21/20 15:07

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 20:04	1
Acrolein	ND		10	0.59	ug/L			09/24/20 20:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 20:04	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 20:04	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 20:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 20:04	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 20:04	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 20:04	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 20:04	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 20:04	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 20:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 20:04	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 20:04	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 20:04	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 20:04	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 20:04	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 20:04	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 20:04	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 20:04	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 20:04	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 20:04	1
Acetone	ND		10	4.0	ug/L			09/24/20 20:04	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 20:04	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 20:04	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 20:04	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 20:04	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 20:04	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 20:04	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 20:04	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 20:04	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 20:04	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 20:04	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 20:04	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 20:04	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 20:04	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: Trip Blank
Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 20:04	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 20:04	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 20:04	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 20:04	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 20:04	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 20:04	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 20:04	1
Iodomethane	ND		25	14	ug/L			09/24/20 20:04	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 20:04	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 20:04	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 20:04	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 20:04	1
Methylene Chloride	**0.16**	**J**	1.0	0.043	ug/L			09/24/20 20:04	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 20:04	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 20:04	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 20:04	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 20:04	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 20:04	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 20:04	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 20:04	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 20:04	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 20:04	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 20:04	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 20:04	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 20:04	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 20:04	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 20:04	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 20:04	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 20:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 20:04	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 20:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 20:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*36*	*T J*	*ug/L*		*1.63*			*09/24/20 20:04*	*1*
Unknown	*29*	*T J*	*ug/L*		*1.69*			*09/24/20 20:04*	*1*
Unknown	*19*	*T J*	*ug/L*		*1.90*			*09/24/20 20:04*	*1*
Unknown	*15*	*T J*	*ug/L*		*2.16*			*09/24/20 20:04*	*1*
Unknown	*15*	*T J*	*ug/L*		*3.25*			*09/24/20 20:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/24/20 20:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 20:04*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/24/20 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*		*09/24/20 20:04*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*09/24/20 20:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*		*09/24/20 20:04*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/24/20 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*		*09/24/20 20:04*	*1*

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 1
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
350.1	Nitrogen, Ammonia	MCAWW	TAL IRV
410.4	COD	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: CM-9R3

Date Collected: 09/21/20 10:20
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 20:58	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 10:24	AJ2Q	ECL 1
Total/NA	Analysis	300.0		10			625694	09/25/20 20:22	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:21	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:02	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	625852	09/27/20 14:51	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 05:27	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 07:54	YZ	TAL IRV

Client Sample ID: CM-10R

Date Collected: 09/21/20 11:30
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 21:26	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 10:40	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625694	09/25/20 20:38	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:24	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:07	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	625852	09/27/20 14:51	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 05:47	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 07:23	YZ	TAL IRV

Client Sample ID: CM-11R

Date Collected: 09/21/20 09:15
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 21:53	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 10:56	AJ2Q	ECL 1
Total/NA	Analysis	300.0		10			625694	09/25/20 20:54	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:27	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:13	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	625852	09/27/20 14:51	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 05:53	YZ	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: CM-11R

Lab Sample ID: 440-272100-3

Date Collected: 09/21/20 09:15

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 07:37	YZ	TAL IRV

Client Sample ID: DW-1

Lab Sample ID: 440-272100-4

Date Collected: 09/21/20 11:15

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 22:20	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 11:11	AJ2Q	ECL 1
Total/NA	Analysis	300.0		10			625694	09/25/20 21:10	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:30	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:18	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	625852	09/27/20 14:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 06:06	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 08:09	YZ	TAL IRV

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-272100-5

Date Collected: 09/21/20 09:40

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97365	09/26/20 03:00	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 20:18	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 11:27	AJ2Q	ECL 1
Total/NA	Analysis	300.0		50			625694	09/26/20 04:44	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:33	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:48	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	625852	09/27/20 14:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 06:16	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	625496	09/23/20 11:53	YZ	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: Subdrain N

Date Collected: 09/21/20 11:50
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97365	09/26/20 03:26	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 20:44	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	96835	09/24/20 08:07	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97808	09/29/20 11:43	AJ2Q	ECL 1
Total/NA	Analysis	300.0		50			625694	09/26/20 05:00	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625540	09/24/20 08:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		25			625624	09/24/20 15:01	KE	TAL IRV
Total/NA	Analysis	350.1		10	0.8 mL	8 mL	625470	09/23/20 15:35	KMY	TAL IRV
Total/NA	Analysis	410.4		10	2 mL	2 mL	625852	09/27/20 14:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 07:42	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		100	100 mL	100 mL	625496	09/23/20 05:41	YZ	TAL IRV

Client Sample ID: Duplicate

Date Collected: 09/21/20 00:01
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 22:47	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96842	09/24/20 08:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97046	09/25/20 08:32	AJ2Q	ECL 1
Total/NA	Analysis	300.0		10			625694	09/25/20 21:58	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:36	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:54	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:28	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 06:24	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 05:56	YZ	TAL IRV

Client Sample ID: MW-6

Date Collected: 09/21/20 10:32
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 23:14	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96842	09/24/20 08:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97341	09/26/20 10:08	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625694	09/25/20 22:14	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:39	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 14:59	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:29	KMY	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: MW-6

Date Collected: 09/21/20 10:32
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 06:36	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 08:42	YZ	TAL IRV

Client Sample ID: MW-13R

Date Collected: 09/21/20 12:49
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4			97365	09/26/20 05:40	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96842	09/24/20 08:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97341	09/26/20 10:24	AJ2Q	ECL 1
Total/NA	Analysis	300.0		20			625886	09/28/20 16:59	OH1	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:42	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:04	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:29	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 06:53	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	625496	09/23/20 10:13	YZ	TAL IRV

Client Sample ID: MW-14

Date Collected: 09/21/20 08:47
Date Received: 09/21/20 15:07

Lab Sample ID: 440-272100-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 23:41	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96842	09/24/20 08:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97341	09/26/20 10:39	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625694	09/26/20 00:34	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:44	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:10	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:29	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 07:16	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 06:13	YZ	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Client Sample ID: PZ-4

Lab Sample ID: 440-272100-11

Date Collected: 09/21/20 13:06

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/25/20 00:08	UJHB	ECL
Total/NA	Prep	3510C			100 mL	10 mL	96842	09/24/20 08:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97341	09/26/20 10:55	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625694	09/26/20 00:50	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625299	09/22/20 14:40	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			625725	09/24/20 19:47	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:15	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:29	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625234	09/22/20 07:25	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625388	09/23/20 09:22	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625496	09/23/20 05:28	YZ	TAL IRV

Client Sample ID: Field Blank

Lab Sample ID: 440-272100-12

Date Collected: 09/21/20 00:01

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 19:37	UJHB	ECL

Client Sample ID: Trip Blank

Lab Sample ID: 440-272100-13

Date Collected: 09/21/20 00:01

Matrix: Water

Date Received: 09/21/20 15:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97037	09/24/20 20:04	UJHB	ECL

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 570-97037/6
Matrix: Water
Analysis Batch: 97037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/24/20 19:10	1
Acrolein	ND		10	0.59	ug/L			09/24/20 19:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/24/20 19:10	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/24/20 19:10	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/24/20 19:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/24/20 19:10	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/24/20 19:10	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/24/20 19:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/24/20 19:10	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/24/20 19:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/24/20 19:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/24/20 19:10	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/24/20 19:10	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/24/20 19:10	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/24/20 19:10	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/24/20 19:10	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/24/20 19:10	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/24/20 19:10	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/24/20 19:10	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/24/20 19:10	1
2-Hexanone	ND		10	0.50	ug/L			09/24/20 19:10	1
Acetone	ND		10	4.0	ug/L			09/24/20 19:10	1
Acetonitrile	ND		10	2.0	ug/L			09/24/20 19:10	1
Benzene	ND		0.50	0.072	ug/L			09/24/20 19:10	1
Allyl chloride	ND		2.0	0.55	ug/L			09/24/20 19:10	1
Bromoform	ND		0.50	0.096	ug/L			09/24/20 19:10	1
Bromomethane	ND		2.0	0.99	ug/L			09/24/20 19:10	1
Carbon disulfide	ND		10	0.39	ug/L			09/24/20 19:10	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/24/20 19:10	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/24/20 19:10	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/24/20 19:10	1
Chloroethane	ND		0.50	0.12	ug/L			09/24/20 19:10	1
Chloroform	ND		0.50	0.062	ug/L			09/24/20 19:10	1
Chloromethane	ND		5.0	2.0	ug/L			09/24/20 19:10	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/24/20 19:10	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/24/20 19:10	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/24/20 19:10	1
Dibromomethane	ND		0.50	0.13	ug/L			09/24/20 19:10	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/24/20 19:10	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/24/20 19:10	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/24/20 19:10	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/24/20 19:10	1
Iodomethane	ND		25	14	ug/L			09/24/20 19:10	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/24/20 19:10	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/24/20 19:10	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/24/20 19:10	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/24/20 19:10	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/24/20 19:10	1

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

Lab Sample ID: MB 570-97037/6
Matrix: Water
Analysis Batch: 97037

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/24/20 19:10	1
Naphthalene	ND		1.0	0.097	ug/L			09/24/20 19:10	1
o-Xylene	ND		0.50	0.086	ug/L			09/24/20 19:10	1
Propionitrile	ND		5.0	1.0	ug/L			09/24/20 19:10	1
Styrene	ND		0.50	0.059	ug/L			09/24/20 19:10	1
t-Butanol	ND		10	4.0	ug/L			09/24/20 19:10	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/24/20 19:10	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/24/20 19:10	1
Toluene	ND		0.50	0.093	ug/L			09/24/20 19:10	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/24/20 19:10	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/24/20 19:10	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/24/20 19:10	1
Trichloroethene	ND		0.50	0.10	ug/L			09/24/20 19:10	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/24/20 19:10	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/24/20 19:10	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/24/20 19:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/24/20 19:10	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/24/20 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/24/20 19:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/24/20 19:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/24/20 19:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*09/24/20 19:10*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 127*		*09/24/20 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*09/24/20 19:10*	*1*

Lab Sample ID: LCS 570-97037/3
Matrix: Water
Analysis Batch: 97037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	11.5		ug/L		115	80 - 120
Acrolein	20.0	20.8		ug/L		104	61 - 144
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 126
Acrylonitrile	10.0	9.85		ug/L		99	53 - 130
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	80 - 125
1,1,2,2-Tetrachloroethane	10.0	9.71		ug/L		97	80 - 120
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 120
1,1-Dichloroethane	10.0	9.32		ug/L		93	77 - 120
1,1-Dichloroethene	10.0	9.55		ug/L		96	74 - 128
1,1-Dichloropropene	10.0	10.2		ug/L		102	79 - 125
1,2,4-Trichlorobenzene	10.0	9.64		ug/L		96	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.63		ug/L		96	67 - 120
1,2-Dichlorobenzene	10.0	9.47		ug/L		95	80 - 120
1,2-Dichloroethane	10.0	11.2		ug/L		112	80 - 123

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

Lab Sample ID: LCS 570-97037/3
Matrix: Water
Analysis Batch: 97037

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	10.1		ug/L		101	80 - 120
1,3-Dichlorobenzene	10.0	9.40		ug/L		94	80 - 120
1,3-Dichloropropane	10.0	10.7		ug/L		107	80 - 120
1,4-Dichlorobenzene	10.0	9.19		ug/L		92	80 - 120
2,2-Dichloropropane	10.0	11.8		ug/L		118	77 - 139
2-Hexanone	10.0	9.06	J	ug/L		91	66 - 129
Acetone	10.0	7.85	J	ug/L		78	58 - 131
Benzene	10.0	10.5		ug/L		105	80 - 120
Bromoform	10.0	10.9		ug/L		109	70 - 141
Bromomethane	10.0	9.71		ug/L		97	50 - 150
Carbon disulfide	10.0	9.33	J	ug/L		93	65 - 136
Carbon tetrachloride	10.0	10.6		ug/L		106	75 - 142
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Bromochloromethane	10.0	9.24		ug/L		92	80 - 120
Chloroethane	10.0	9.14		ug/L		91	74 - 123
Chloroform	10.0	10.2		ug/L		102	80 - 120
Chloromethane	10.0	9.31		ug/L		93	54 - 140
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	80 - 121
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	80 - 120
Dibromochloromethane	10.0	10.6		ug/L		106	80 - 128
Dibromomethane	10.0	11.2		ug/L		112	80 - 120
Bromodichloromethane	10.0	11.6		ug/L		116	80 - 126
Dichlorodifluoromethane	10.0	9.78		ug/L		98	63 - 135
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
m,p-Xylene	20.0	22.3		ug/L		111	80 - 120
Methylene Chloride	10.0	8.77		ug/L		88	71 - 125
Methyl tert-butyl ether	10.0	9.90		ug/L		99	70 - 121
Naphthalene	10.0	9.69		ug/L		97	80 - 125
o-Xylene	10.0	10.9		ug/L		109	80 - 120
Styrene	10.0	10.9		ug/L		109	80 - 120
t-Butanol	50.0	45.5		ug/L		91	77 - 124
Tetrachloroethene	10.0	10.1		ug/L		101	80 - 126
Toluene	10.0	10.5		ug/L		105	80 - 120
trans-1,2-Dichloroethene	10.0	9.07		ug/L		91	74 - 121
trans-1,3-Dichloropropene	10.0	11.5		ug/L		115	80 - 123
Trichloroethene	10.0	10.5		ug/L		105	80 - 120
Trichlorofluoromethane	10.0	10.8		ug/L		108	74 - 137
Vinyl acetate	10.0	11.0		ug/L		110	50 - 150
Vinyl chloride	10.0	9.39		ug/L		94	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.0		ug/L		100	80 - 120
2-Butanone (MEK)	10.0	8.19		ug/L		82	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.93		ug/L		99	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*107*		*68 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*

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

Lab Sample ID: LCSD 570-97037/4
Matrix: Water
Analysis Batch: 97037

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	11.9		ug/L		119	80 - 120	3	14
Acrolein	20.0	21.8		ug/L		109	61 - 144	5	30
1,1,1,2-Tetrachloroethane	10.0	10.8		ug/L		108	80 - 126	2	11
Acrylonitrile	10.0	10.5		ug/L		105	53 - 130	6	30
1,1,1-Trichloroethane	10.0	10.5		ug/L		105	80 - 125	2	14
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	80 - 120	11	16
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 120	2	13
1,1-Dichloroethane	10.0	9.41		ug/L		94	77 - 120	1	14
1,1-Dichloroethene	10.0	9.55		ug/L		95	74 - 128	0	17
1,1-Dichloropropene	10.0	10.0		ug/L		100	79 - 125	1	14
1,2,4-Trichlorobenzene	10.0	9.95		ug/L		100	80 - 120	3	16
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	67 - 120	10	20
1,2-Dichlorobenzene	10.0	9.71		ug/L		97	80 - 120	2	14
1,2-Dichloroethane	10.0	11.9		ug/L		119	80 - 123	5	10
1,2-Dichloropropane	10.0	10.1		ug/L		101	80 - 120	0	11
1,3-Dichlorobenzene	10.0	9.56		ug/L		96	80 - 120	2	15
1,3-Dichloropropane	10.0	11.0		ug/L		110	80 - 120	3	13
1,4-Dichlorobenzene	10.0	9.62		ug/L		96	80 - 120	5	15
2,2-Dichloropropane	10.0	11.3		ug/L		113	77 - 139	4	16
2-Hexanone	10.0	8.03	J	ug/L		80	66 - 129	12	21
Acetone	10.0	8.86	J	ug/L		89	58 - 131	12	30
Benzene	10.0	10.3		ug/L		103	80 - 120	2	12
Bromoform	10.0	11.2		ug/L		112	70 - 141	3	15
Bromomethane	10.0	9.52		ug/L		95	50 - 150	2	22
Carbon disulfide	10.0	9.54	J	ug/L		95	65 - 136	2	17
Carbon tetrachloride	10.0	10.6		ug/L		106	75 - 142	0	15
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120	1	12
Bromochloromethane	10.0	10.1		ug/L		101	80 - 120	8	12
Chloroethane	10.0	9.35		ug/L		93	74 - 123	2	17
Chloroform	10.0	10.5		ug/L		105	80 - 120	3	12
Chloromethane	10.0	9.46		ug/L		95	54 - 140	2	19
cis-1,2-Dichloroethene	10.0	9.95		ug/L		99	80 - 121	2	13
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	80 - 120	1	12
Dibromochloromethane	10.0	10.9		ug/L		109	80 - 128	3	11
Dibromomethane	10.0	11.7		ug/L		117	80 - 120	4	11
Bromodichloromethane	10.0	11.6		ug/L		116	80 - 126	0	11
Dichlorodifluoromethane	10.0	9.48		ug/L		95	63 - 135	3	17
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120	1	13
m,p-Xylene	20.0	21.5		ug/L		107	80 - 120	4	13
Methylene Chloride	10.0	9.02		ug/L		90	71 - 125	3	19
Methyl tert-butyl ether	10.0	10.2		ug/L		102	70 - 121	3	11
Naphthalene	10.0	10.5		ug/L		105	80 - 125	8	16
o-Xylene	10.0	10.9		ug/L		109	80 - 120	0	12
Styrene	10.0	10.9		ug/L		109	80 - 120	0	12
t-Butanol	50.0	47.8		ug/L		96	77 - 124	5	23
Tetrachloroethene	10.0	9.81		ug/L		98	80 - 126	3	15
Toluene	10.0	10.4		ug/L		104	80 - 120	0	13
trans-1,2-Dichloroethene	10.0	9.54		ug/L		95	74 - 121	5	14

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

Lab Sample ID: LCSD 570-97037/4
Matrix: Water
Analysis Batch: 97037

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			10.0	11.9		ug/L		119	80 - 123	4	13
Trichloroethene			10.0	10.4		ug/L		104	80 - 120	1	14
Trichlorofluoromethane			10.0	10.2		ug/L		102	74 - 137	5	16
Vinyl acetate			10.0	11.4		ug/L		114	50 - 150	4	28
Vinyl chloride			10.0	9.17		ug/L		92	72 - 126	2	17
1,2-Dibromoethane (EDB)			10.0	10.2		ug/L		102	80 - 120	1	12
2-Butanone (MEK)			10.0	10.3		ug/L		103	50 - 127	22	26
4-Methyl-2-pentanone (MIBK)			10.0	10.1		ug/L		101	72 - 120	2	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*68 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*

Lab Sample ID: MB 570-97365/7
Matrix: Water
Analysis Batch: 97365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/25/20 22:32	1
Acrolein	ND		10	0.59	ug/L			09/25/20 22:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/25/20 22:32	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/25/20 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/25/20 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/25/20 22:32	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/25/20 22:32	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:32	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/25/20 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/25/20 22:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/25/20 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/25/20 22:32	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/25/20 22:32	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/25/20 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/25/20 22:32	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/25/20 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/25/20 22:32	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/25/20 22:32	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/25/20 22:32	1
2-Hexanone	ND		10	0.50	ug/L			09/25/20 22:32	1
Acetone	ND		10	4.0	ug/L			09/25/20 22:32	1
Acetonitrile	ND		10	2.0	ug/L			09/25/20 22:32	1
Benzene	ND		0.50	0.072	ug/L			09/25/20 22:32	1
Allyl chloride	ND		2.0	0.55	ug/L			09/25/20 22:32	1
Bromoform	ND		0.50	0.096	ug/L			09/25/20 22:32	1
Bromomethane	ND		2.0	0.99	ug/L			09/25/20 22:32	1
Carbon disulfide	ND		10	0.39	ug/L			09/25/20 22:32	1

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

Lab Sample ID: MB 570-97365/7
Matrix: Water
Analysis Batch: 97365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/25/20 22:32	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/25/20 22:32	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/25/20 22:32	1
Chloroethane	ND		0.50	0.12	ug/L			09/25/20 22:32	1
Chloroform	ND		0.50	0.062	ug/L			09/25/20 22:32	1
Chloromethane	ND		5.0	2.0	ug/L			09/25/20 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/25/20 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/25/20 22:32	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/25/20 22:32	1
Dibromomethane	ND		0.50	0.13	ug/L			09/25/20 22:32	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/25/20 22:32	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/25/20 22:32	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/25/20 22:32	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/25/20 22:32	1
Iodomethane	ND		25	14	ug/L			09/25/20 22:32	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/25/20 22:32	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/25/20 22:32	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/25/20 22:32	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/25/20 22:32	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/25/20 22:32	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/25/20 22:32	1
Naphthalene	ND		1.0	0.097	ug/L			09/25/20 22:32	1
o-Xylene	ND		0.50	0.086	ug/L			09/25/20 22:32	1
Propionitrile	ND		5.0	1.0	ug/L			09/25/20 22:32	1
Styrene	ND		0.50	0.059	ug/L			09/25/20 22:32	1
t-Butanol	ND		10	4.0	ug/L			09/25/20 22:32	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/25/20 22:32	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/25/20 22:32	1
Toluene	ND		0.50	0.093	ug/L			09/25/20 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/25/20 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/25/20 22:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/25/20 22:32	1
Trichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:32	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/25/20 22:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/25/20 22:32	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/25/20 22:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/25/20 22:32	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/25/20 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/25/20 22:32	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/25/20 22:32*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/20 22:32*	*1*
4-Bromofluorobenzene (Surr)	*87*		*68 - 120*		*09/25/20 22:32*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/25/20 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*09/25/20 22:32*	*1*

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

Lab Sample ID: LCS 570-97365/4
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120
Acrolein	20.0	16.9		ug/L		85	61 - 144
1,1,1,2-Tetrachloroethane	10.0	12.3		ug/L		123	80 - 126
Acrylonitrile	10.0	11.4		ug/L		114	53 - 130
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	80 - 125
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	80 - 120
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 120
1,1-Dichloroethane	10.0	11.3		ug/L		113	77 - 120
1,1-Dichloroethene	10.0	10.5		ug/L		105	74 - 128
1,1-Dichloropropene	10.0	11.5		ug/L		115	79 - 125
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	67 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123
1,2-Dichloropropane	10.0	11.4		ug/L		114	80 - 120
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,3-Dichloropropane	10.0	11.4		ug/L		114	80 - 120
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	10.8		ug/L		108	77 - 139
2-Hexanone	10.0	8.25	J	ug/L		83	66 - 129
Acetone	10.0	10.1		ug/L		101	58 - 131
Benzene	10.0	10.9		ug/L		109	80 - 120
Bromoform	10.0	13.0		ug/L		130	70 - 141
Bromomethane	10.0	13.4		ug/L		134	50 - 150
Carbon disulfide	10.0	11.6		ug/L		116	65 - 136
Carbon tetrachloride	10.0	12.7		ug/L		127	75 - 142
Chlorobenzene	10.0	11.2		ug/L		112	80 - 120
Bromochloromethane	10.0	11.4		ug/L		114	80 - 120
Chloroethane	10.0	12.0		ug/L		120	74 - 123
Chloroform	10.0	11.5		ug/L		115	80 - 120
Chloromethane	10.0	12.0		ug/L		120	54 - 140
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	80 - 121
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	80 - 120
Dibromochloromethane	10.0	11.9		ug/L		119	80 - 128
Dibromomethane	10.0	11.3		ug/L		113	80 - 120
Bromodichloromethane	10.0	12.2		ug/L		122	80 - 126
Dichlorodifluoromethane	10.0	10.1		ug/L		101	63 - 135
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
m,p-Xylene	20.0	21.2		ug/L		106	80 - 120
Methylene Chloride	10.0	11.7		ug/L		117	71 - 125
Methyl tert-butyl ether	10.0	10.1		ug/L		101	70 - 121
Naphthalene	10.0	9.38		ug/L		94	80 - 125
o-Xylene	10.0	11.1		ug/L		111	80 - 120
Styrene	10.0	10.9		ug/L		109	80 - 120
t-Butanol	50.0	59.6		ug/L		119	77 - 124
Tetrachloroethene	10.0	11.6		ug/L		116	80 - 126
Toluene	10.0	11.3		ug/L		113	80 - 120
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	74 - 121

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

Lab Sample ID: LCS 570-97365/4
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	80 - 123
Trichloroethene	10.0	11.7		ug/L		117	80 - 120
Trichlorofluoromethane	10.0	11.9		ug/L		119	74 - 137
Vinyl acetate	10.0	10.6		ug/L		106	50 - 150
Vinyl chloride	10.0	11.7		ug/L		117	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.8		ug/L		108	80 - 120
2-Butanone (MEK)	10.0	6.78		ug/L		68	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.61		ug/L		96	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Lab Sample ID: LCSD 570-97365/5
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	10.6		ug/L		106	80 - 120	3	14
Acrolein	20.0	19.7		ug/L		99	61 - 144	15	30
1,1,1,2-Tetrachloroethane	10.0	12.3		ug/L		123	80 - 126	0	11
Acrylonitrile	10.0	11.4		ug/L		114	53 - 130	0	30
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125	1	14
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	80 - 120	2	16
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 120	0	13
1,1-Dichloroethane	10.0	11.2		ug/L		112	77 - 120	1	14
1,1-Dichloroethene	10.0	10.3		ug/L		103	74 - 128	2	17
1,1-Dichloropropene	10.0	11.2		ug/L		112	79 - 125	2	14
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	67 - 120	1	20
1,2-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	0	14
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123	0	10
1,2-Dichloropropane	10.0	11.4		ug/L		114	80 - 120	0	11
1,3-Dichlorobenzene	10.0	11.2		ug/L		112	80 - 120	2	15
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	2	13
1,4-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120	1	15
2,2-Dichloropropane	10.0	10.5		ug/L		105	77 - 139	3	16
2-Hexanone	10.0	9.55	J	ug/L		95	66 - 129	15	21
Acetone	10.0	9.44	J	ug/L		94	58 - 131	7	30
Benzene	10.0	10.7		ug/L		107	80 - 120	2	12
Bromoform	10.0	13.4		ug/L		134	70 - 141	3	15
Bromomethane	10.0	12.7		ug/L		127	50 - 150	5	22
Carbon disulfide	10.0	11.3		ug/L		113	65 - 136	2	17
Carbon tetrachloride	10.0	12.5		ug/L		125	75 - 142	1	15
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120	2	12
Bromochloromethane	10.0	11.5		ug/L		115	80 - 120	1	12

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

Lab Sample ID: LCSD 570-97365/5
Matrix: Water
Analysis Batch: 97365

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane			10.0	11.7		ug/L		117	74 - 123	3	17
Chloroform			10.0	11.4		ug/L		114	80 - 120	1	12
Chloromethane			10.0	11.5		ug/L		115	54 - 140	4	19
cis-1,2-Dichloroethene			10.0	11.4		ug/L		114	80 - 121	0	13
cis-1,3-Dichloropropene			10.0	11.1		ug/L		111	80 - 120	1	12
Dibromochloromethane			10.0	11.8		ug/L		118	80 - 128	1	11
Dibromomethane			10.0	11.2		ug/L		112	80 - 120	1	11
Bromodichloromethane			10.0	12.3		ug/L		123	80 - 126	1	11
Dichlorodifluoromethane			10.0	9.76		ug/L		98	63 - 135	3	17
Ethylbenzene			10.0	10.5		ug/L		105	80 - 120	2	13
m,p-Xylene			20.0	20.7		ug/L		103	80 - 120	3	13
Methylene Chloride			10.0	11.5		ug/L		115	71 - 125	1	19
Methyl tert-butyl ether			10.0	10.3		ug/L		103	70 - 121	2	11
Naphthalene			10.0	9.67		ug/L		97	80 - 125	3	16
o-Xylene			10.0	11.0		ug/L		110	80 - 120	2	12
Styrene			10.0	10.7		ug/L		107	80 - 120	1	12
t-Butanol			50.0	52.7		ug/L		105	77 - 124	12	23
Tetrachloroethene			10.0	11.4		ug/L		114	80 - 126	2	15
Toluene			10.0	11.2		ug/L		112	80 - 120	1	13
trans-1,2-Dichloroethene			10.0	11.6		ug/L		116	74 - 121	1	14
trans-1,3-Dichloropropene			10.0	11.3		ug/L		113	80 - 123	1	13
Trichloroethene			10.0	11.8		ug/L		118	80 - 120	1	14
Trichlorofluoromethane			10.0	11.6		ug/L		116	74 - 137	3	16
Vinyl acetate			10.0	9.03		ug/L		90	50 - 150	16	28
Vinyl chloride			10.0	11.2		ug/L		112	72 - 126	4	17
1,2-Dibromoethane (EDB)			10.0	10.8		ug/L		108	80 - 120	0	12
2-Butanone (MEK)			10.0	8.76		ug/L		88	50 - 127	25	26
4-Methyl-2-pentanone (MIBK)			10.0	9.55		ug/L		96	72 - 120	1	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-272125-A-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	75 - 125
Acrolein	ND		20.0	17.1		ug/L		86	80 - 120
1,1,1,2-Tetrachloroethane	ND		10.0	11.6		ug/L		116	75 - 127
Acrylonitrile	ND	F2	10.0	8.21		ug/L		82	68 - 134
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	72 - 132
1,1,2,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	75 - 132
1,1,2-Trichloroethane	ND		10.0	11.6		ug/L		116	75 - 125
1,1-Dichloroethane	ND		10.0	11.0		ug/L		110	68 - 128

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

Lab Sample ID: 440-272125-A-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	66 - 126
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	74 - 134
1,2,4-Trichlorobenzene	ND		10.0	10.4		ug/L		104	75 - 125
1,2-Dibromo-3-Chloropropane	ND		10.0	12.3		ug/L		123	75 - 127
1,2-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 125
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	75 - 127
1,2-Dichloropropane	0.17	J	10.0	11.6		ug/L		114	75 - 125
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	75 - 126
1,3-Dichloropropane	ND		10.0	11.4		ug/L		114	75 - 125
1,4-Dichlorobenzene	1.3		10.0	11.1		ug/L		99	75 - 125
2,2-Dichloropropane	ND		10.0	12.0		ug/L		120	52 - 160
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122
Acetone	ND		10.0	15.5		ug/L		155	20 - 180
Benzene	0.90		10.0	11.4		ug/L		105	75 - 125
Bromoform	ND	F1	10.0	12.8		ug/L		128	71 - 137
Bromomethane	ND		10.0	9.12		ug/L		91	37 - 181
Carbon disulfide	ND		10.0	10.8		ug/L		108	58 - 136
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	69 - 135
Chlorobenzene	0.31	J	10.0	10.8		ug/L		105	75 - 125
Bromochloromethane	ND		10.0	11.6		ug/L		116	75 - 128
Chloroethane	ND		10.0	13.8		ug/L		138	20 - 180
Chloroform	ND		10.0	11.4		ug/L		114	75 - 129
Chloromethane	ND		10.0	10.5		ug/L		105	41 - 149
cis-1,2-Dichloroethene	2.5		10.0	13.4		ug/L		109	75 - 130
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	75 - 128
Dibromochloromethane	ND		10.0	11.5		ug/L		115	75 - 125
Dibromomethane	ND		10.0	11.5		ug/L		115	75 - 129
Bromodichloromethane	ND	F1	10.0	12.0		ug/L		120	75 - 125
Dichlorodifluoromethane	ND		10.0	6.75		ug/L		68	28 - 172
Ethylbenzene	ND		10.0	9.62		ug/L		96	75 - 125
m,p-Xylene	ND		20.0	19.1		ug/L		96	75 - 125
Methylene Chloride	ND		10.0	11.6		ug/L		116	74 - 128
Methyl tert-butyl ether	3.9		10.0	14.5		ug/L		107	71 - 131
Naphthalene	ND		10.0	10.5		ug/L		105	75 - 136
o-Xylene	ND		10.0	10.4		ug/L		104	75 - 127
Styrene	ND		10.0	10.3		ug/L		103	28 - 166
t-Butanol	780	E	50.0	878	E 4	ug/L		200	20 - 180
Tetrachloroethene	ND		10.0	9.78		ug/L		98	58 - 124
Toluene	ND		10.0	10.7		ug/L		107	75 - 125
trans-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	73 - 133
trans-1,3-Dichloropropene	ND		10.0	11.0		ug/L		110	75 - 125
Trichloroethene	0.25	J	10.0	10.9		ug/L		107	75 - 125
Trichlorofluoromethane	ND		10.0	9.36		ug/L		94	68 - 134
Vinyl acetate	ND		10.0	11.6		ug/L		116	65 - 137
Vinyl chloride	ND		10.0	10.2		ug/L		102	52 - 142
1,2-Dibromoethane (EDB)	ND		10.0	11.1		ug/L		111	75 - 126
2-Butanone (MEK)	ND		10.0	12.7		ug/L		127	20 - 180
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.6		ug/L		116	65 - 137

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

Lab Sample ID: 440-272125-A-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-272125-A-9 MSD
Matrix: Water
Analysis Batch: 97365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	75 - 125	1	20
Acrolein	ND		20.0	17.7		ug/L		89	80 - 120	3	20
1,1,1,2-Tetrachloroethane	ND		10.0	12.6		ug/L		126	75 - 127	8	20
Acrylonitrile	ND	F2	10.0	12.8	F2	ug/L		128	68 - 134	43	20
1,1,1-Trichloroethane	ND		10.0	11.5		ug/L		115	72 - 132	6	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.0		ug/L		120	75 - 132	5	20
1,1,2-Trichloroethane	ND		10.0	12.1		ug/L		121	75 - 125	4	20
1,1-Dichloroethane	ND		10.0	11.7		ug/L		117	68 - 128	6	20
1,1-Dichloroethene	ND		10.0	9.97		ug/L		100	66 - 126	0	20
1,1-Dichloropropene	ND		10.0	11.6		ug/L		116	74 - 134	10	20
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	75 - 125	7	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.5		ug/L		115	75 - 127	7	20
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	75 - 125	3	20
1,2-Dichloroethane	ND		10.0	11.2		ug/L		112	75 - 127	2	20
1,2-Dichloropropane	0.17	J	10.0	12.3		ug/L		122	75 - 125	6	20
1,3-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 126	4	20
1,3-Dichloropropane	ND		10.0	11.9		ug/L		119	75 - 125	4	20
1,4-Dichlorobenzene	1.3		10.0	11.8		ug/L		105	75 - 125	6	20
2,2-Dichloropropane	ND		10.0	12.8		ug/L		128	52 - 160	7	20
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122	0	20
Acetone	ND		10.0	12.8		ug/L		128	20 - 180	19	52
Benzene	0.90		10.0	12.0		ug/L		111	75 - 125	5	20
Bromoform	ND	F1	10.0	13.8	F1	ug/L		138	71 - 137	7	20
Bromomethane	ND		10.0	9.51		ug/L		95	37 - 181	4	22
Carbon disulfide	ND		10.0	11.4		ug/L		114	58 - 136	6	20
Carbon tetrachloride	ND		10.0	11.9		ug/L		119	69 - 135	7	20
Chlorobenzene	0.31	J	10.0	11.4		ug/L		110	75 - 125	5	20
Bromochloromethane	ND		10.0	12.3		ug/L		123	75 - 128	6	20
Chloroethane	ND		10.0	14.1		ug/L		141	20 - 180	2	20
Chloroform	ND		10.0	12.0		ug/L		120	75 - 129	5	20
Chloromethane	ND		10.0	11.0		ug/L		110	41 - 149	4	20
cis-1,2-Dichloroethene	2.5		10.0	14.2		ug/L		118	75 - 130	6	20
cis-1,3-Dichloropropene	ND		10.0	11.1		ug/L		111	75 - 128	4	20
Dibromochloromethane	ND		10.0	12.4		ug/L		124	75 - 125	8	20
Dibromomethane	ND		10.0	11.8		ug/L		118	75 - 129	3	20
Bromodichloromethane	ND	F1	10.0	12.8	F1	ug/L		128	75 - 125	6	20
Dichlorodifluoromethane	ND		10.0	6.93		ug/L		69	28 - 172	3	20
Ethylbenzene	ND		10.0	10.1		ug/L		101	75 - 125	5	20

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

Lab Sample ID: 440-272125-A-9 MSD
Matrix: Water
Analysis Batch: 97365

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylene	ND		20.0	20.0		ug/L		100	75 - 125	4	20
Methylene Chloride	ND		10.0	12.5		ug/L		125	74 - 128	7	20
Methyl tert-butyl ether	3.9		10.0	15.4		ug/L		115	71 - 131	6	20
Naphthalene	ND		10.0	11.3		ug/L		113	75 - 136	7	20
o-Xylene	ND		10.0	10.8		ug/L		108	75 - 127	4	20
Styrene	ND		10.0	10.8		ug/L		108	28 - 166	5	20
t-Butanol	780	E	50.0	901	E 4	ug/L		245	20 - 180	3	40
Tetrachloroethene	ND		10.0	10.3		ug/L		103	58 - 124	5	20
Toluene	ND		10.0	11.1		ug/L		111	75 - 125	4	20
trans-1,2-Dichloroethene	ND		10.0	11.7		ug/L		117	73 - 133	9	20
trans-1,3-Dichloropropene	ND		10.0	11.5		ug/L		115	75 - 125	5	20
Trichloroethene	0.25	J	10.0	11.4		ug/L		112	75 - 125	5	20
Trichlorofluoromethane	ND		10.0	9.70		ug/L		97	68 - 134	4	20
Vinyl acetate	ND		10.0	12.8		ug/L		128	65 - 137	10	20
Vinyl chloride	ND		10.0	10.9		ug/L		109	52 - 142	7	20
1,2-Dibromoethane (EDB)	ND		10.0	11.3		ug/L		113	75 - 126	2	20
2-Butanone (MEK)	ND		10.0	11.5		ug/L		115	20 - 180	10	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.7		ug/L		117	65 - 137	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 17:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 17:10	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 17:10	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 17:10	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 17:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 17:10	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 17:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 17:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 17:10	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 17:10	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 17:10	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 17:10	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 17:10	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 17:10	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 17:10	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 17:10	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 17:10	1

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

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	0.50	ug/L			09/26/20 17:10	1
Acetone	ND		10	4.0	ug/L			09/26/20 17:10	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 17:10	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 17:10	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 17:10	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 17:10	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 17:10	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 17:10	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 17:10	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 17:10	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 17:10	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 17:10	1
Chloroform	0.198	J	0.50	0.062	ug/L			09/26/20 17:10	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 17:10	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 17:10	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 17:10	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 17:10	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 17:10	1
Bromodichloromethane	0.134	J	0.50	0.053	ug/L			09/26/20 17:10	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 17:10	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 17:10	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 17:10	1
Iodomethane	ND		25	14	ug/L			09/26/20 17:10	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 17:10	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 17:10	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 17:10	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 17:10	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 17:10	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 17:10	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 17:10	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 17:10	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 17:10	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 17:10	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 17:10	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 17:10	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 17:10	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 17:10	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 17:10	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 17:10	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 17:10	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 17:10	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 17:10	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 17:10	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 17:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 17:10	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 17:10	1

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

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/26/20 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/26/20 17:10	1
4-Bromofluorobenzene (Surr)	92		68 - 120		09/26/20 17:10	1
Dibromofluoromethane (Surr)	105		80 - 127		09/26/20 17:10	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 128		09/26/20 17:10	1

Lab Sample ID: LCS 570-97477/9
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	12.2		ug/L		122	80 - 126
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	80 - 120
1,1,2-Trichloroethane	10.0	11.3		ug/L		113	80 - 120
1,1-Dichloroethane	10.0	11.7		ug/L		117	77 - 120
1,1-Dichloroethene	10.0	10.5		ug/L		105	74 - 128
1,1-Dichloropropene	10.0	11.2		ug/L		112	79 - 125
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	67 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 123
1,2-Dichloropropane	10.0	10.9		ug/L		109	80 - 120
1,3-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	11.2		ug/L		112	77 - 139
2-Hexanone	10.0	9.65	J	ug/L		96	66 - 129
Acetone	10.0	10.5		ug/L		105	58 - 131
Benzene	10.0	10.7		ug/L		107	80 - 120
Bromoform	10.0	12.9		ug/L		129	70 - 141
Bromomethane	10.0	11.4		ug/L		114	50 - 150
Carbon disulfide	10.0	11.4		ug/L		114	65 - 136
Carbon tetrachloride	10.0	12.3		ug/L		123	75 - 142
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120
Bromochloromethane	10.0	11.5		ug/L		115	80 - 120
Chloroethane	10.0	11.8		ug/L		118	74 - 123
Chloroform	10.0	11.3		ug/L		113	80 - 120
Chloromethane	10.0	11.4		ug/L		114	54 - 140
cis-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 121
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	80 - 120
Dibromochloromethane	10.0	11.7		ug/L		117	80 - 128
Dibromomethane	10.0	10.7		ug/L		107	80 - 120
Bromodichloromethane	10.0	11.7		ug/L		117	80 - 126
Dichlorodifluoromethane	10.0	9.65		ug/L		96	63 - 135

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

Lab Sample ID: LCS 570-97477/9
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
m,p-Xylene	20.0	21.2		ug/L		106	80 - 120
Methylene Chloride	10.0	11.8		ug/L		118	71 - 125
Methyl tert-butyl ether	10.0	10.9		ug/L		109	70 - 121
Naphthalene	10.0	9.63		ug/L		96	80 - 125
o-Xylene	10.0	11.0		ug/L		110	80 - 120
Styrene	10.0	11.0		ug/L		110	80 - 120
t-Butanol	50.0	44.5		ug/L		89	77 - 124
Tetrachloroethene	10.0	11.3		ug/L		113	80 - 126
Toluene	10.0	11.2		ug/L		112	80 - 120
trans-1,2-Dichloroethene	10.0	11.7		ug/L		117	74 - 121
trans-1,3-Dichloropropene	10.0	11.2		ug/L		112	80 - 123
Trichloroethene	10.0	11.1		ug/L		111	80 - 120
Trichlorofluoromethane	10.0	9.86		ug/L		99	74 - 137
Vinyl acetate	10.0	10.2		ug/L		102	50 - 150
Vinyl chloride	10.0	10.8		ug/L		108	72 - 126
1,2-Dibromoethane (EDB)	10.0	11.0		ug/L		110	80 - 120
2-Butanone (MEK)	10.0	8.06		ug/L		81	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.44		ug/L		94	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Lab Sample ID: LCSD 570-97477/10
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120	0	14
1,1,1,2-Tetrachloroethane	10.0	12.1		ug/L		121	80 - 126	1	11
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125	0	14
1,1,2,2-Tetrachloroethane	10.0	11.1		ug/L		111	80 - 120	1	16
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	80 - 120	2	13
1,1-Dichloroethane	10.0	11.4		ug/L		114	77 - 120	3	14
1,1-Dichloroethene	10.0	10.2		ug/L		102	74 - 128	3	17
1,1-Dichloropropene	10.0	11.1		ug/L		111	79 - 125	1	14
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	11.1		ug/L		111	67 - 120	3	20
1,2-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	14
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123	3	10
1,2-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	2	11
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120	0	15
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	0	13
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	15
2,2-Dichloropropane	10.0	11.0		ug/L		110	77 - 139	2	16

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

Lab Sample ID: LCSD 570-97477/10
Matrix: Water
Analysis Batch: 97477

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone			10.0	9.86	J	ug/L		99	66 - 129	2	21
Acetone			10.0	10.7		ug/L		107	58 - 131	2	30
Benzene			10.0	10.7		ug/L		107	80 - 120	0	12
Bromoform			10.0	12.9		ug/L		129	70 - 141	0	15
Bromomethane			10.0	11.1		ug/L		111	50 - 150	3	22
Carbon disulfide			10.0	11.3		ug/L		113	65 - 136	1	17
Carbon tetrachloride			10.0	12.1		ug/L		121	75 - 142	2	15
Chlorobenzene			10.0	10.9		ug/L		109	80 - 120	2	12
Bromochloromethane			10.0	11.4		ug/L		114	80 - 120	1	12
Chloroethane			10.0	11.6		ug/L		116	74 - 123	1	17
Chloroform			10.0	11.3		ug/L		113	80 - 120	0	12
Chloromethane			10.0	11.4		ug/L		114	54 - 140	0	19
cis-1,2-Dichloroethene			10.0	11.2		ug/L		112	80 - 121	0	13
cis-1,3-Dichloropropene			10.0	11.3		ug/L		113	80 - 120	1	12
Dibromochloromethane			10.0	11.7		ug/L		117	80 - 128	0	11
Dibromomethane			10.0	11.0		ug/L		110	80 - 120	2	11
Bromodichloromethane			10.0	11.9		ug/L		119	80 - 126	2	11
Dichlorodifluoromethane			10.0	9.60		ug/L		96	63 - 135	1	17
Ethylbenzene			10.0	10.5		ug/L		105	80 - 120	1	13
m,p-Xylene			20.0	20.9		ug/L		105	80 - 120	2	13
Methylene Chloride			10.0	12.0		ug/L		120	71 - 125	1	19
Methyl tert-butyl ether			10.0	10.8		ug/L		108	70 - 121	0	11
Naphthalene			10.0	9.62		ug/L		96	80 - 125	0	16
o-Xylene			10.0	11.0		ug/L		110	80 - 120	1	12
Styrene			10.0	10.9		ug/L		109	80 - 120	1	12
t-Butanol			50.0	55.4		ug/L		111	77 - 124	22	23
Tetrachloroethene			10.0	11.1		ug/L		111	80 - 126	2	15
Toluene			10.0	11.2		ug/L		112	80 - 120	1	13
trans-1,2-Dichloroethene			10.0	11.7		ug/L		117	74 - 121	0	14
trans-1,3-Dichloropropene			10.0	11.1		ug/L		111	80 - 123	1	13
Trichloroethene			10.0	11.2		ug/L		112	80 - 120	1	14
Trichlorofluoromethane			10.0	9.76		ug/L		98	74 - 137	1	16
Vinyl acetate			10.0	9.93		ug/L		99	50 - 150	3	28
Vinyl chloride			10.0	10.8		ug/L		108	72 - 126	0	17
1,2-Dibromoethane (EDB)			10.0	11.1		ug/L		111	80 - 120	1	12
2-Butanone (MEK)			10.0	8.08		ug/L		81	50 - 127	0	26
4-Methyl-2-pentanone (MIBK)			10.0	9.84		ug/L		98	72 - 120	4	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-96835/1-A
Matrix: Water
Analysis Batch: 97808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:07	09/29/20 06:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/24/20 08:07*	*09/29/20 06:28*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*76*		*46 - 128*	*09/24/20 08:07*	*09/29/20 06:28*	*1*

Lab Sample ID: LCS 570-96835/2-A
Matrix: Water
Analysis Batch: 97808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96835

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	18.2		ug/L		91	57 - 136		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*46*		*15 - 150*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*64*		*46 - 128*

Lab Sample ID: LCSD 570-96835/3-A
Matrix: Water
Analysis Batch: 97808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96835

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	18.0		ug/L		90	57 - 136	1	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*51*		*15 - 150*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*67*		*46 - 128*

Lab Sample ID: 440-272092-G-1-A MS
Matrix: Water
Analysis Batch: 97808

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 96835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	490	E	20.0	610	E 4	ug/L		580	45 - 139		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*44*		*15 - 150*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*55*		*46 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 440-272092-G-1-B MSD
Matrix: Water
Analysis Batch: 97808

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	490	E	20.0	584	E 4	ug/L		449	45 - 139	4	17

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*50*		*15 - 150*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*59*		*46 - 128*

Lab Sample ID: MB 570-96842/1-A
Matrix: Water
Analysis Batch: 97046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/24/20 08:18	09/25/20 07:13	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*43*		*15 - 150*	*09/24/20 08:18*	*09/25/20 07:13*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*46 - 128*	*09/24/20 08:18*	*09/25/20 07:13*	*1*

Lab Sample ID: LCS 570-96842/2-A
Matrix: Water
Analysis Batch: 97046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96842

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	17.4		ug/L		87	57 - 136		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*42*		*15 - 150*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*66*		*46 - 128*

Lab Sample ID: LCSD 570-96842/3-A
Matrix: Water
Analysis Batch: 97046

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	17.5		ug/L		87	57 - 136	0	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*51*		*15 - 150*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*79*		*46 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: 440-272100-7 MS
Matrix: Water
Analysis Batch: 97046

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 96842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		20.0	17.0		ug/L		85	45 - 139

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*52*		*15 - 150*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*84*		*46 - 128*

Lab Sample ID: 440-272100-7 MSD
Matrix: Water
Analysis Batch: 97046

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 96842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	18.3		ug/L		91	45 - 139	7	17

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*45*		*15 - 150*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*66*		*46 - 128*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-625694/6
Matrix: Water
Analysis Batch: 625694

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			09/25/20 10:59	1

Lab Sample ID: LCS 440-625694/5
Matrix: Water
Analysis Batch: 625694

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride			5.00	4.80		mg/L		96	90 - 110

Lab Sample ID: 440-272100-8 MS
Matrix: Water
Analysis Batch: 625694

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	40		25.0	64.0		mg/L		96	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-272100-8 MSD
Matrix: Water
Analysis Batch: 625694

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	40		25.0	64.3		mg/L		97	80 - 120	0	20

Lab Sample ID: 440-272100-11 MS
Matrix: Water
Analysis Batch: 625694

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.1		25.0	33.5		mg/L		98	80 - 120

Lab Sample ID: 440-272100-11 MSD
Matrix: Water
Analysis Batch: 625694

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.1		25.0	33.6		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 440-625886/6
Matrix: Water
Analysis Batch: 625886

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			09/28/20 10:53	1

Lab Sample ID: LCS 440-625886/7
Matrix: Water
Analysis Batch: 625886

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.88		mg/L		98	90 - 110

Lab Sample ID: 440-272396-F-1 MS
Matrix: Water
Analysis Batch: 625886

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	95	E	5.00	101	E 4	mg/L		118	80 - 120

Lab Sample ID: 440-272396-F-1 MSD
Matrix: Water
Analysis Batch: 625886

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	95	E	5.00	101	E 4	mg/L		124	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-625299/1-A
Matrix: Water
Analysis Batch: 625753

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 625299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		09/22/20 14:40	09/25/20 10:56	1

Lab Sample ID: LCS 440-625299/2-A
Matrix: Water
Analysis Batch: 625753

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 625299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.0		mg/L		100	80 - 120

Lab Sample ID: 440-272000-B-1-B MS ^500
Matrix: Water
Analysis Batch: 625753

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 625299

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	ND		10.0	ND		mg/L		NC	75 - 125

Lab Sample ID: 440-272000-B-1-C MSD ^500
Matrix: Water
Analysis Batch: 625753

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 625299

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	ND		10.0	ND		mg/L		NC	75 - 125	NC	20

Lab Sample ID: MB 440-625540/1-A
Matrix: Water
Analysis Batch: 625624

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 625540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		09/24/20 08:57	09/24/20 17:11	1

Lab Sample ID: LCS 440-625540/2-A
Matrix: Water
Analysis Batch: 625624

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 625540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.5		mg/L		105	80 - 120

Lab Sample ID: 440-272165-J-1-B MS
Matrix: Water
Analysis Batch: 625624

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 625540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	4.4		10.0	15.3		mg/L		110	75 - 125

Lab Sample ID: 440-272165-J-1-C MSD
Matrix: Water
Analysis Batch: 625624

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 625540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	4.4		10.0	15.5		mg/L		112	75 - 125	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-625470/10
Matrix: Water
Analysis Batch: 625470

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			09/23/20 13:30	1

Lab Sample ID: LCS 440-625470/11
Matrix: Water
Analysis Batch: 625470

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: MRL 440-625470/9
Matrix: Water
Analysis Batch: 625470

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.179	J	mg/L		90	50 - 150

Lab Sample ID: 440-272084-D-2 MS
Matrix: Water
Analysis Batch: 625470

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	ND		5.00	5.06		mg/L		101	90 - 110

Lab Sample ID: 440-272084-D-2 MSD
Matrix: Water
Analysis Batch: 625470

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	ND		5.00	5.02		mg/L		100	90 - 110	1	15

Method: 410.4 - COD

Lab Sample ID: MB 440-625852/3
Matrix: Water
Analysis Batch: 625852

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/27/20 14:49	1

Lab Sample ID: LCS 440-625852/4
Matrix: Water
Analysis Batch: 625852

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	197		mg/L		98	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 440-272100-1 MS
Matrix: Water
Analysis Batch: 625852

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		200	202		mg/L		101	70 - 120

Lab Sample ID: 440-272100-1 MSD
Matrix: Water
Analysis Batch: 625852

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		200	205		mg/L		102	70 - 120	1	15

Lab Sample ID: MB 440-626113/4
Matrix: Water
Analysis Batch: 626113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:28	1

Lab Sample ID: LCS 440-626113/5
Matrix: Water
Analysis Batch: 626113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	185		mg/L		93	90 - 110

Lab Sample ID: 440-272100-7 MS
Matrix: Water
Analysis Batch: 626113

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		200	194		mg/L		97	70 - 120

Lab Sample ID: 440-272100-7 MSD
Matrix: Water
Analysis Batch: 626113

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		200	187		mg/L		94	70 - 120	4	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-625234/3
Matrix: Water
Analysis Batch: 625234

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			09/22/20 05:19	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 440-625234/2
Matrix: Water
Analysis Batch: 625234

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			75.8	75.2		mg/L		99	80 - 120		

Lab Sample ID: 440-272100-1 DU
Matrix: Water
Analysis Batch: 625234

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	250			248		mg/L				0.8	20

Lab Sample ID: 440-272100-9 DU
Matrix: Water
Analysis Batch: 625234

Client Sample ID: MW-13R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	710			719		mg/L				1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-625388/1
Matrix: Water
Analysis Batch: 625388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			09/23/20 09:22	1

Lab Sample ID: LCS 440-625388/2
Matrix: Water
Analysis Batch: 625388

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	954		mg/L		95	90 - 110		

Lab Sample ID: 440-272100-1 DU
Matrix: Water
Analysis Batch: 625388

Client Sample ID: CM-9R3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4000			3980		mg/L				0.3	5

Lab Sample ID: 440-272100-11 DU
Matrix: Water
Analysis Batch: 625388

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1200			1170		mg/L				0.09	5

Method: SM 5310C - TOC

Lab Sample ID: MB 440-625496/8
Matrix: Water
Analysis Batch: 625496

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			09/23/20 05:16	1

Lab Sample ID: LCS 440-625496/7
Matrix: Water
Analysis Batch: 625496

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			5.00	4.90		mg/L		98	85 - 115		

Lab Sample ID: MRL 440-625496/6
Matrix: Water
Analysis Batch: 625496

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			0.100	0.0704	J	mg/L		70	50 - 150		

Lab Sample ID: 440-272100-11 MS
Matrix: Water
Analysis Batch: 625496

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.6		5.00	7.18		mg/L		111	85 - 115		

Lab Sample ID: 440-272100-11 MSD
Matrix: Water
Analysis Batch: 625496

Client Sample ID: PZ-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.6		5.00	7.28		mg/L		113	85 - 115	1	20

GC/MS VOA

Analysis Batch: 97037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	8260B	
440-272100-2	CM-10R	Total/NA	Water	8260B	
440-272100-3	CM-11R	Total/NA	Water	8260B	
440-272100-4	DW-1	Total/NA	Water	8260B	
440-272100-7	Duplicate	Total/NA	Water	8260B	
440-272100-8	MW-6	Total/NA	Water	8260B	
440-272100-10	MW-14	Total/NA	Water	8260B	
440-272100-11	PZ-4	Total/NA	Water	8260B	
440-272100-12	Field Blank	Total/NA	Water	8260B	
440-272100-13	Trip Blank	Total/NA	Water	8260B	
MB 570-97037/6	Method Blank	Total/NA	Water	8260B	
LCS 570-97037/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97037/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 97365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-5	Combined Subdrains	Total/NA	Water	8260B	
440-272100-6	Subdrain N	Total/NA	Water	8260B	
440-272100-9	MW-13R	Total/NA	Water	8260B	
MB 570-97365/7	Method Blank	Total/NA	Water	8260B	
LCS 570-97365/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97365/5	Lab Control Sample Dup	Total/NA	Water	8260B	
440-272125-A-9 MS	Matrix Spike	Total/NA	Water	8260B	
440-272125-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 97477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-5	Combined Subdrains	Total/NA	Water	8260B	
440-272100-6	Subdrain N	Total/NA	Water	8260B	
MB 570-97477/13	Method Blank	Total/NA	Water	8260B	
LCS 570-97477/9	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97477/10	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 96835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	3510C	
440-272100-2	CM-10R	Total/NA	Water	3510C	
440-272100-3	CM-11R	Total/NA	Water	3510C	
440-272100-4	DW-1	Total/NA	Water	3510C	
440-272100-5	Combined Subdrains	Total/NA	Water	3510C	
440-272100-6	Subdrain N	Total/NA	Water	3510C	
MB 570-96835/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-96835/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-96835/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
440-272092-G-1-A MS	Matrix Spike	Total/NA	Water	3510C	
440-272092-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

GC/MS Semi VOA

Prep Batch: 96842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-7	Duplicate	Total/NA	Water	3510C	
440-272100-8	MW-6	Total/NA	Water	3510C	
440-272100-9	MW-13R	Total/NA	Water	3510C	
440-272100-10	MW-14	Total/NA	Water	3510C	
440-272100-11	PZ-4	Total/NA	Water	3510C	
MB 570-96842/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-96842/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-96842/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
440-272100-7 MS	Duplicate	Total/NA	Water	3510C	
440-272100-7 MSD	Duplicate	Total/NA	Water	3510C	

Analysis Batch: 97046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-7	Duplicate	Total/NA	Water	8270C SIM ID	96842
MB 570-96842/1-A	Method Blank	Total/NA	Water	8270C SIM ID	96842
LCS 570-96842/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	96842
LCSD 570-96842/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	96842
440-272100-7 MS	Duplicate	Total/NA	Water	8270C SIM ID	96842
440-272100-7 MSD	Duplicate	Total/NA	Water	8270C SIM ID	96842

Analysis Batch: 97341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-8	MW-6	Total/NA	Water	8270C SIM ID	96842
440-272100-9	MW-13R	Total/NA	Water	8270C SIM ID	96842
440-272100-10	MW-14	Total/NA	Water	8270C SIM ID	96842
440-272100-11	PZ-4	Total/NA	Water	8270C SIM ID	96842

Analysis Batch: 97808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	8270C SIM ID	96835
440-272100-2	CM-10R	Total/NA	Water	8270C SIM ID	96835
440-272100-3	CM-11R	Total/NA	Water	8270C SIM ID	96835
440-272100-4	DW-1	Total/NA	Water	8270C SIM ID	96835
440-272100-5	Combined Subdrains	Total/NA	Water	8270C SIM ID	96835
440-272100-6	Subdrain N	Total/NA	Water	8270C SIM ID	96835
MB 570-96835/1-A	Method Blank	Total/NA	Water	8270C SIM ID	96835
LCS 570-96835/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	96835
LCSD 570-96835/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	96835
440-272092-G-1-A MS	Matrix Spike	Total/NA	Water	8270C SIM ID	96835
440-272092-G-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	96835

HPLC/IC

Analysis Batch: 625694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	300.0	
440-272100-2	CM-10R	Total/NA	Water	300.0	
440-272100-3	CM-11R	Total/NA	Water	300.0	
440-272100-4	DW-1	Total/NA	Water	300.0	
440-272100-5	Combined Subdrains	Total/NA	Water	300.0	
440-272100-6	Subdrain N	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 625694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-7	Duplicate	Total/NA	Water	300.0	
440-272100-8	MW-6	Total/NA	Water	300.0	
440-272100-10	MW-14	Total/NA	Water	300.0	
440-272100-11	PZ-4	Total/NA	Water	300.0	
MB 440-625694/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625694/5	Lab Control Sample	Total/NA	Water	300.0	
440-272100-8 MS	MW-6	Total/NA	Water	300.0	
440-272100-8 MSD	MW-6	Total/NA	Water	300.0	
440-272100-11 MS	PZ-4	Total/NA	Water	300.0	
440-272100-11 MSD	PZ-4	Total/NA	Water	300.0	

Analysis Batch: 625886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-9	MW-13R	Total/NA	Water	300.0	
MB 440-625886/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625886/7	Lab Control Sample	Total/NA	Water	300.0	
440-272396-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-272396-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 625299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total Recoverable	Water	3005A	
440-272100-2	CM-10R	Total Recoverable	Water	3005A	
440-272100-3	CM-11R	Total Recoverable	Water	3005A	
440-272100-4	DW-1	Total Recoverable	Water	3005A	
440-272100-5	Combined Subdrains	Total Recoverable	Water	3005A	
440-272100-7	Duplicate	Total Recoverable	Water	3005A	
440-272100-8	MW-6	Total Recoverable	Water	3005A	
440-272100-9	MW-13R	Total Recoverable	Water	3005A	
440-272100-10	MW-14	Total Recoverable	Water	3005A	
440-272100-11	PZ-4	Total Recoverable	Water	3005A	
MB 440-625299/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-625299/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272000-B-1-B MS ^500	Matrix Spike	Total Recoverable	Water	3005A	
440-272000-B-1-C MSD ^50(	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 625540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-6	Subdrain N	Total Recoverable	Water	3005A	
MB 440-625540/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-625540/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272165-J-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-272165-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 625624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-6	Subdrain N	Total Recoverable	Water	6010B	625540
MB 440-625540/1-A	Method Blank	Total Recoverable	Water	6010B	625540
LCS 440-625540/2-A	Lab Control Sample	Total Recoverable	Water	6010B	625540

Metals (Continued)

Analysis Batch: 625624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272165-J-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	625540
440-272165-J-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	625540

Analysis Batch: 625725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total Recoverable	Water	6010B	625299
440-272100-2	CM-10R	Total Recoverable	Water	6010B	625299
440-272100-3	CM-11R	Total Recoverable	Water	6010B	625299
440-272100-4	DW-1	Total Recoverable	Water	6010B	625299
440-272100-5	Combined Subdrains	Total Recoverable	Water	6010B	625299
440-272100-7	Duplicate	Total Recoverable	Water	6010B	625299
440-272100-8	MW-6	Total Recoverable	Water	6010B	625299
440-272100-9	MW-13R	Total Recoverable	Water	6010B	625299
440-272100-10	MW-14	Total Recoverable	Water	6010B	625299
440-272100-11	PZ-4	Total Recoverable	Water	6010B	625299

Analysis Batch: 625753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-625299/1-A	Method Blank	Total Recoverable	Water	6010B	625299
LCS 440-625299/2-A	Lab Control Sample	Total Recoverable	Water	6010B	625299
440-272000-B-1-B MS ^500	Matrix Spike	Total Recoverable	Water	6010B	625299
440-272000-B-1-C MSD ^50(	Matrix Spike Duplicate	Total Recoverable	Water	6010B	625299

General Chemistry

Analysis Batch: 625234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	SM 2320B	
440-272100-2	CM-10R	Total/NA	Water	SM 2320B	
440-272100-3	CM-11R	Total/NA	Water	SM 2320B	
440-272100-4	DW-1	Total/NA	Water	SM 2320B	
440-272100-5	Combined Subdrains	Total/NA	Water	SM 2320B	
440-272100-6	Subdrain N	Total/NA	Water	SM 2320B	
440-272100-7	Duplicate	Total/NA	Water	SM 2320B	
440-272100-8	MW-6	Total/NA	Water	SM 2320B	
440-272100-9	MW-13R	Total/NA	Water	SM 2320B	
440-272100-10	MW-14	Total/NA	Water	SM 2320B	
440-272100-11	PZ-4	Total/NA	Water	SM 2320B	
MB 440-625234/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-625234/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-272100-1 DU	CM-9R3	Total/NA	Water	SM 2320B	
440-272100-9 DU	MW-13R	Total/NA	Water	SM 2320B	

Analysis Batch: 625388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	SM 2540C	
440-272100-2	CM-10R	Total/NA	Water	SM 2540C	
440-272100-3	CM-11R	Total/NA	Water	SM 2540C	
440-272100-4	DW-1	Total/NA	Water	SM 2540C	
440-272100-5	Combined Subdrains	Total/NA	Water	SM 2540C	
440-272100-6	Subdrain N	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 625388 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-7	Duplicate	Total/NA	Water	SM 2540C	
440-272100-8	MW-6	Total/NA	Water	SM 2540C	
440-272100-9	MW-13R	Total/NA	Water	SM 2540C	
440-272100-10	MW-14	Total/NA	Water	SM 2540C	
440-272100-11	PZ-4	Total/NA	Water	SM 2540C	
MB 440-625388/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-625388/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-272100-1 DU	CM-9R3	Total/NA	Water	SM 2540C	
440-272100-11 DU	PZ-4	Total/NA	Water	SM 2540C	

Analysis Batch: 625470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	350.1	
440-272100-2	CM-10R	Total/NA	Water	350.1	
440-272100-3	CM-11R	Total/NA	Water	350.1	
440-272100-4	DW-1	Total/NA	Water	350.1	
440-272100-5	Combined Subdrains	Total/NA	Water	350.1	
440-272100-6	Subdrain N	Total/NA	Water	350.1	
440-272100-7	Duplicate	Total/NA	Water	350.1	
440-272100-8	MW-6	Total/NA	Water	350.1	
440-272100-9	MW-13R	Total/NA	Water	350.1	
440-272100-10	MW-14	Total/NA	Water	350.1	
440-272100-11	PZ-4	Total/NA	Water	350.1	
MB 440-625470/10	Method Blank	Total/NA	Water	350.1	
LCS 440-625470/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-625470/9	Lab Control Sample	Total/NA	Water	350.1	
440-272084-D-2 MS	Matrix Spike	Total/NA	Water	350.1	
440-272084-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 625496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	SM 5310C	
440-272100-2	CM-10R	Total/NA	Water	SM 5310C	
440-272100-3	CM-11R	Total/NA	Water	SM 5310C	
440-272100-4	DW-1	Total/NA	Water	SM 5310C	
440-272100-5	Combined Subdrains	Total/NA	Water	SM 5310C	
440-272100-6	Subdrain N	Total/NA	Water	SM 5310C	
440-272100-7	Duplicate	Total/NA	Water	SM 5310C	
440-272100-8	MW-6	Total/NA	Water	SM 5310C	
440-272100-9	MW-13R	Total/NA	Water	SM 5310C	
440-272100-10	MW-14	Total/NA	Water	SM 5310C	
440-272100-11	PZ-4	Total/NA	Water	SM 5310C	
MB 440-625496/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-625496/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-625496/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-272100-11 MS	PZ-4	Total/NA	Water	SM 5310C	
440-272100-11 MSD	PZ-4	Total/NA	Water	SM 5310C	

Analysis Batch: 625852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-1	CM-9R3	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 625852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-2	CM-10R	Total/NA	Water	410.4	
440-272100-3	CM-11R	Total/NA	Water	410.4	
440-272100-4	DW-1	Total/NA	Water	410.4	
440-272100-5	Combined Subdrains	Total/NA	Water	410.4	
440-272100-6	Subdrain N	Total/NA	Water	410.4	
MB 440-625852/3	Method Blank	Total/NA	Water	410.4	
LCS 440-625852/4	Lab Control Sample	Total/NA	Water	410.4	
440-272100-1 MS	CM-9R3	Total/NA	Water	410.4	
440-272100-1 MSD	CM-9R3	Total/NA	Water	410.4	

Analysis Batch: 626113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272100-7	Duplicate	Total/NA	Water	410.4	
440-272100-8	MW-6	Total/NA	Water	410.4	
440-272100-9	MW-13R	Total/NA	Water	410.4	
440-272100-10	MW-14	Total/NA	Water	410.4	
440-272100-11	PZ-4	Total/NA	Water	410.4	
MB 440-626113/4	Method Blank	Total/NA	Water	410.4	
LCS 440-626113/5	Lab Control Sample	Total/NA	Water	410.4	
440-272100-7 MS	Duplicate	Total/NA	Water	410.4	
440-272100-7 MSD	Duplicate	Total/NA	Water	410.4	

Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

General Chemistry

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 440-272100-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience Irvine

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	State	CA01531	06-30-21
Arizona	State	AZ0671	10-13-20
California	Los Angeles County Sanitation Districts	10256	06-30-21
California	State	2706	06-30-21
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-21
Nevada	State	CA015312021-1	07-31-21
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-21

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-30-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kyle Wetchaus	Site Contact: S. Mills	Date: 9-21-20	COC No:
Company Name: GLA / Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tamura	Carrier: T/A	1 of 2 COCs
Address: 11415 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: BS, MC, CV
City/State/Zip: S.D., Ca. 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below _____			Walk-in Client:
Fax: 858-451-1087	☐ 2 weeks			Lab Sampling:
Project Name: Republic Services, Inc	☐ 1 week			
Site: Sunshine Cyn. 4F	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260B	SVOCs 8270 1,4-Dioxane	Dioxane	T.O.C. (415.1)	TDS (160.1)	Total Alkalinity (310.1)	Ammonia (350.2)	COD (410.4)	Chloride (300.0)	Potassium (6010B)	Sample Specific Notes:
CM-9R3	9/21/20	1020	G	GW	12			X	X	X	X	X	X	X	X	X	X	
CM-10R	↓	1130	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
CM-11R	↓	0915	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
DW-1	↓	1115	↓	↓	12			X	X	X	X	X	X	X	X	X	X	
Combined Subdrains	↓	0940	↓	WW	12			X	X	X	X	X	X	X	X	X	X	
Subdrain N	↓	1150	↓	WW	12			X	X	X	X	X	X	X	X	X	X	
Duplicate	↓	—	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-6	↓	1032	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-13R	↓	1249	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
MW-14	↓	0847	↓	GW	12			X	X	X	X	X	X	X	X	X	X	
PZ-4	↓	1306	↓	GW	12			X	X	X	X	X	X	X	X	X	X	

JEL 9/21/20

440-272100 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than ...)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

0.6/0.7 0.9/1.0 0.9/1.0 0.4/0.5 1R-98

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Geo-Logic	9-21-20 1507	[signature]	EI-IRV	9/21/20 1507
[signature]	EI-IRV	9/21/20 1716			
			Received in Laboratory by:		

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Kyle Werkheiser	Site Contact: J. Mills	Date: 9-21-20	COC No:
Company Name: GLA Republic	Tel/Email: 858-451-1131	Lab Contact: R. Tolentino	Carrier: TA	2 of 2 COCs
Address: 11415 W. Bernardo Ct.	**Analysis Turnaround Time**			Sampler: RS
City/State/Zip: S.D. CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
Phone: 858-451-1131	TAT if different from Below _____			Walk-in Client:
Fax: 858-451-1652	☐ 2 weeks			Lab Sampling
Project Name: Republic Services	☐ 1 week			
Site: Sunshine Gun. LF	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260B	Sample Specific Notes:
Field Blank	9/21/20	—	G	Water	4			X	
Trip Blank	9/21/20	—	G	"	4			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: GLA-LESR	Date/Time: 9-21-20 1507	Received by:	Company: EC-IRV	Date/Time: 9/21/20 1507
Relinquished by:	Company: EC-IRV	Date/Time: 9/21/20 1716	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 440-161997.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rossina.Tomova@Eurofinset.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins Calscience LLC		Accreditations Required (See note):		Job #: 440-272100-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 10/2/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Sunshine Canyon	Project #: 44007851			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030C (MOD) Appendix II +MTBE+TBA+TICS	8260B_LL/5030C_UP (MOD) A+A	8270C_SIM_MS_ID/3510C 1,4-Dioxane - SIM_MS_ID	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
CM-9R3 (440-272100-1)	9/21/20	10:20 Pacific		Water			X	X	X	8	
CM-10R (440-272100-2)	9/21/20	11:30 Pacific		Water			X	X	X	8	
CM-11R (440-272100-3)	9/21/20	09:15 Pacific		Water			X	X	X	8	
DW-1 (440-272100-4)	9/21/20	11:15 Pacific		Water			X	X	X	8	
Combined Subdrains (440-272100-5)	9/21/20	09:40 Pacific		Water			X	X	X	8	
Subdrain (440-272100-6)	9/21/20	11:50 Pacific		Water			X	X	X	8	
Duplicate (440-272100-7)	9/21/20	00:01 Pacific		Water			X	X	X	8	
MW-6 (440-272100-8)	9/21/20	10:32 Pacific		Water			X	X	X	8	
MW-13R (440-272100-9)	9/21/20	12:49 Pacific		Water			X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/22/20 0845	ECLRV		09/22/2020 0845	EC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.2 , 2.9/2.5 SCG

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 440-161997.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rossina.Tomova@Eurofinset.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins Calscience LLC		Accreditations Required (See note):		Job #: 440-272100-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 10/2/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Sunshine Canyon	Project #: 44007851			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030C (MOD) Appendix II +MTBE+TBA+TICS	8260B_LL/5030C_UP (MOD) A+A	8270C_SIM_MS_ID/3510C 1,4-Dioxane - SIM_MS_ID	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-14 (440-272100-10)	9/21/20	08:47 Pacific		Water			X	X	X	8	
PZ-4 (440-272100-11)	9/21/20	13:06 Pacific		Water			X	X	X	8	
Field Blank (440-272100-12)	9/21/20	00:01 Pacific		Water			X	X		4	
Trip Blank (440-272100-13)	9/21/20	00:01 Pacific		Water			X	X		4	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/22/20 0845	EC-IRV		09/22/2020 0845	ECI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272100-1

Login Number: 272100
List Number: 1
Creator: Lagunas, Jorge L

List Source: Eurofins Irvine

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272100-1

Login Number: 272100
List Number: 2
Creator: Cruise, Noel

List Source: Eurofins Calscience
List Creation: 09/22/20 11:50 AM

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

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272100-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-150)
440-272092-G-1-A MS	Matrix Spike	44
440-272092-G-1-B MSD	Matrix Spike Duplicate	50
440-272100-1	CM-9R3	47
440-272100-2	CM-10R	45
440-272100-3	CM-11R	50
440-272100-4	DW-1	53
440-272100-5	Combined Subdrains	48
440-272100-6	Subdrain N	37
440-272100-7	Duplicate	51
440-272100-7 MS	Duplicate	52
440-272100-7 MSD	Duplicate	45
440-272100-8	MW-6	48
440-272100-9	MW-13R	48
440-272100-10	MW-14	55
440-272100-11	PZ-4	42
LCS 570-96835/2-A	Lab Control Sample	46
LCS 570-96842/2-A	Lab Control Sample	42
LCSD 570-96835/3-A	Lab Control Sample Dup	51
LCSD 570-96842/3-A	Lab Control Sample Dup	51
MB 570-96835/1-A	Method Blank	48
MB 570-96842/1-A	Method Blank	43

Surrogate Legend

DXE = 1,4-Dioxane-d8

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ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-272125-1
Client Project/Site: Republic Sunshine Canyon

For:
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Attn: Kyle Welchans

Authorized for release by:
10/6/2020 11:48:58 AM

Rossina Tomova, Project Manager I
(949)260-3276
Rossina.Tomova@Eurofinset.com

LINKS

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

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

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

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Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-272125-1	DW-2	Water	09/22/20 08:15	09/22/20 14:38	
440-272125-2	DW-3	Water	09/22/20 09:25	09/22/20 14:38	
440-272125-3	DW-5	Water	09/22/20 11:44	09/22/20 14:38	
440-272125-4	PZ-2	Water	09/22/20 08:18	09/22/20 14:38	
440-272125-5	MW-5	Water	09/22/20 10:07	09/22/20 14:38	
440-272125-6	MW-9	Water	09/22/20 11:15	09/22/20 14:38	
440-272125-7	MW-1	Water	09/22/20 12:45	09/22/20 14:38	
440-272125-8	Extraction Trench	Water	09/22/20 09:12	09/22/20 14:38	
440-272125-9	LY-7	Water	09/22/20 07:18	09/22/20 14:38	
440-272125-10	Field Blank	Water	09/22/20 00:01	09/22/20 14:38	
440-272125-11	Trip Blank	Water	09/22/20 00:01	09/22/20 14:38	

Job ID: 440-272125-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-272125-1

Comments
No additional comments.

Receipt
The samples were received on 9/22/2020 2:38 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.2º C, 1.4º C and 1.5º C.

GC/MS VOA
Method 8260B: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Extraction Trench (440-272125-8). Elevated reporting limits (RLs) are provided.

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 570-97365 recovered outside control limits for the following analytes: Isobutyl Alcohol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 570-97365 were outside control limits: (440-272125-A-9 MS) and (440-272125-A-9 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260B: The method blank for analytical batch 570-97477 contained Chloroform, Bromodichloromethane above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-97477.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-97320.

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

GC/MS Semi VOA
Method 8270C SIM ID: Results for sample Extraction Trench (440-272125-8) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

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

Metals
Method 3005A: The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of 6: Extraction Trench (440-272125-8), LY-7 (440-272125-9), (440-272125-I-8 MS), (440-272125-I-8 MSD) and (440-272125-I-8 PDS). The samples were preserved to the appropriate pH in the laboratory. Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

09/28/20 @ 14:35 hrs
1.5mL of 1:1 HNO3 was added to container I-8
1:1 HNO3 Reagent # 6352842

2.5mL of 1:1 HNO3 was added to container I-9

Job ID: 440-272125-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

1:1 HNO3 Reagent # 6352842

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Potassium were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry
Method SM 2320B: The following samples are associated with these LCS and Method Blank: DW-2 (440-272125-1), DW-3 (440-272125-2), DW-5 (440-272125-3), PZ-2 (440-272125-4), MW-5 (440-272125-5), MW-9 (440-272125-6), MW-1 (440-272125-7), Extraction Trench (440-272125-8), LY-7 (440-272125-9), (LCS 440-625411/27), (MB 440-625411/28), (440-272125-G-1 DU) and (440-272125-G-4 DU)

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

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

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

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: DW-2
Date Collected: 09/22/20 08:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 22:05	1
Acrolein	ND		10	0.59	ug/L			09/25/20 23:36	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 22:05	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 23:36	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 22:05	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 22:05	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 22:05	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:05	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 22:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 22:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 22:05	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 22:05	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 22:05	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 22:05	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 22:05	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 22:05	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 22:05	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 22:05	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 22:05	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 22:05	1
Acetone	ND		10	4.0	ug/L			09/26/20 22:05	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 22:05	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 22:05	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 22:05	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 22:05	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 22:05	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 22:05	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 22:05	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 22:05	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 22:05	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 22:05	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 22:05	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 22:05	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 22:05	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 22:05	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 22:05	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 22:05	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 22:05	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 22:05	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 22:05	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 22:05	1
Iodomethane	ND		25	14	ug/L			09/26/20 22:05	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 22:05	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 22:05	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 22:05	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 22:05	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 22:05	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 22:05	1

Client Sample ID: DW-2

Date Collected: 09/22/20 08:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 22:05	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 22:05	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 22:05	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 22:05	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 22:05	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 22:05	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 22:05	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 22:05	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 22:05	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 22:05	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 22:05	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:05	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 22:05	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 22:05	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 22:05	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 22:05	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 22:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Dec-9-en-6-oxo-1-ylamide	*340*	*T J N*	*ug/L*		*1.45*	*1000128-20-0*		*09/26/20 22:05*	*1*
Unknown	*2500*	*T J*	*ug/L*		*1.49*			*09/26/20 22:05*	*1*
Unknown	*40*	*T J*	*ug/L*		*1.77*			*09/26/20 22:05*	*1*
Unknown	*42*	*T J*	*ug/L*		*3.14*			*09/26/20 22:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/25/20 23:36*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*09/25/20 23:36*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/25/20 23:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*		*09/25/20 23:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/20 22:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*09/26/20 22:05*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 127*		*09/26/20 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*09/26/20 22:05*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:18	09/25/20 18:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/25/20 07:18*	*09/25/20 18:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*46 - 128*	*09/25/20 07:18*	*09/25/20 18:56*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.8**		2.5	1.3	mg/L			09/25/20 01:26	5

Client Sample ID: DW-2

Lab Sample ID: 440-272125-1

Date Collected: 09/22/20 08:15

Matrix: Water

Date Received: 09/22/20 14:38

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.6**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.2**		0.20	0.10	mg/L			09/23/20 15:45	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:29	1
Total Dissolved Solids	**1900**		20	10	mg/L			09/23/20 09:25	1
Total Organic Carbon	**2.0**		0.10	0.050	mg/L			09/24/20 07:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**360**		4.0	4.0	mg/L			09/23/20 09:08	1

Client Sample ID: DW-3

Lab Sample ID: 440-272125-2

Date Collected: 09/22/20 09:25

Matrix: Water

Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 22:32	1
Acrolein	ND		10	0.59	ug/L			09/26/20 00:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 22:32	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 00:08	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 22:32	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 22:32	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 22:32	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:32	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 22:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 22:32	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 22:32	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 22:32	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 22:32	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 22:32	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 22:32	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 22:32	1
Acetone	ND		10	4.0	ug/L			09/26/20 22:32	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 22:32	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 22:32	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 22:32	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 22:32	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 22:32	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 22:32	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 22:32	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 22:32	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 22:32	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 22:32	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 22:32	1

Client Sample ID: DW-3
Date Collected: 09/22/20 09:25
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 22:32	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 22:32	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 22:32	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 22:32	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 22:32	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 22:32	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 22:32	1
Iodomethane	ND		25	14	ug/L			09/26/20 22:32	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 22:32	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 22:32	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 22:32	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 22:32	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 22:32	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 22:32	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 22:32	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 22:32	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 22:32	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 22:32	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 22:32	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 22:32	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 22:32	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 22:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 22:32	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:32	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 22:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 22:32	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 22:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 22:32	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 22:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*93*	*T J*	*ug/L*		*1.43*			*09/26/20 22:32*	*1*
Unknown	*82*	*T J*	*ug/L*		*1.44*			*09/26/20 22:32*	*1*
Unknown	*1100*	*T J*	*ug/L*		*1.49*			*09/26/20 22:32*	*1*
Unknown	*32*	*T J*	*ug/L*		*3.13*			*09/26/20 22:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/20 00:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 00:08*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 127*		*09/26/20 00:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*09/26/20 00:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/26/20 22:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 22:32*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 127*		*09/26/20 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*09/26/20 22:32*	*1*

Client Sample ID: DW-3

Date Collected: 09/22/20 09:25
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-2

Matrix: Water

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 00:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*42*		*15 - 150*	*09/25/20 07:18*	*09/26/20 00:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*87*		*46 - 128*	*09/25/20 07:18*	*09/26/20 00:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		2.5	1.3	mg/L			09/25/20 01:42	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**8.3**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.55**		0.20	0.10	mg/L			09/23/20 15:51	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	**1900**		10	5.0	mg/L			09/23/20 09:25	1
Total Organic Carbon	**0.71**		0.10	0.050	mg/L			09/24/20 07:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**150**		4.0	4.0	mg/L			09/23/20 09:26	1

Client Sample ID: DW-5

Date Collected: 09/22/20 11:44
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 22:58	1
Acrolein	ND		10	0.59	ug/L			09/26/20 00:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 22:58	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 00:40	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 22:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 22:58	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 22:58	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 22:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:58	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 22:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 22:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 22:58	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 22:58	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 22:58	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 22:58	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 22:58	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 22:58	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 22:58	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 22:58	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 22:58	1

Client Sample ID: DW-5
Date Collected: 09/22/20 11:44
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	0.50	ug/L			09/26/20 22:58	1
Acetone	**5.1**	**J**	10	4.0	ug/L			09/26/20 22:58	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 22:58	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 22:58	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 22:58	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 22:58	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 22:58	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 22:58	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 22:58	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 22:58	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 22:58	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 22:58	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 22:58	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 22:58	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 22:58	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 22:58	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 22:58	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 22:58	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 22:58	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 22:58	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 22:58	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 22:58	1
Iodomethane	ND		25	14	ug/L			09/26/20 22:58	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 22:58	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 22:58	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 22:58	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 22:58	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 22:58	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 22:58	1
Naphthalene	**0.89**	**J**	1.0	0.097	ug/L			09/26/20 22:58	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 22:58	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 22:58	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 22:58	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 22:58	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 22:58	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 22:58	1
Toluene	**0.67**		0.50	0.093	ug/L			09/26/20 22:58	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 22:58	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 22:58	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 22:58	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:58	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 22:58	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 22:58	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 22:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 22:58	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 22:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 22:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*68*	*T J*	*ug/L*		*1.43*			*09/26/20 22:58*	*1*

Client Sample ID: DW-5

Date Collected: 09/22/20 11:44
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-3

Matrix: Water

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2H-Pyran-2-acetic acid, tetrahydro-6-methyl-, cis-	68	T J N	ug/L		1.44	69493-11-4		09/26/20 22:58	1
Unknown	1000	T J	ug/L		1.49			09/26/20 22:58	1
Propane	110	T J N	ug/L		1.62	74-98-6		09/26/20 22:58	1
Unknown	37	T J	ug/L		1.79			09/26/20 22:58	1
Propane, 2,2-dimethyl-	390	T J N	ug/L		2.00	463-82-1		09/26/20 22:58	1
Butane, 2,3-dimethyl-	630	T J N	ug/L		3.96	79-29-8		09/26/20 22:58	1
Benzene, 1,2,3,4-tetramethyl-	23	T J N	ug/L		15.34	488-23-3		09/26/20 22:58	1
Benzene, pentamethyl-	7.4	T J N	ug/L		16.41	700-12-9		09/26/20 22:58	1
1H-Indene, 2,3-dihydro-4,7-dimethyl-	8.3	T J N	ug/L		17.43	6682-71-9		09/26/20 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		09/26/20 00:40	1
4-Bromofluorobenzene (Surr)	94		68 - 120		09/26/20 00:40	1
Dibromofluoromethane (Surr)	98		80 - 127		09/26/20 00:40	1
1,2-Dichloroethane-d4 (Surr)	98		80 - 128		09/26/20 00:40	1
Toluene-d8 (Surr)	102		80 - 120		09/26/20 22:58	1
4-Bromofluorobenzene (Surr)	84		68 - 120		09/26/20 22:58	1
Dibromofluoromethane (Surr)	104		80 - 127		09/26/20 22:58	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 128		09/26/20 22:58	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 01:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	51		15 - 150	09/25/20 07:18	09/26/20 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	96		46 - 128	09/25/20 07:18	09/26/20 01:13	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		2.5	1.3	mg/L			09/25/20 01:57	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.2**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.19**	**J**	0.20	0.10	mg/L			09/23/20 15:56	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	**1100**		10	5.0	mg/L			09/23/20 09:25	1
Total Organic Carbon	**7.9**		0.10	0.050	mg/L			09/24/20 08:10	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**950**		4.0	4.0	mg/L			09/23/20 09:43	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: PZ-2
Date Collected: 09/22/20 08:18
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 23:25	1
Acrolein	ND		10	0.59	ug/L			09/26/20 01:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 23:25	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 01:12	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 23:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 23:25	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 23:25	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 23:25	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:25	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 23:25	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 23:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 23:25	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 23:25	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 23:25	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 23:25	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 23:25	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 23:25	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 23:25	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 23:25	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 23:25	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 23:25	1
Acetone	ND		10	4.0	ug/L			09/26/20 23:25	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 23:25	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 23:25	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 23:25	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 23:25	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 23:25	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 23:25	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 23:25	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 23:25	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 23:25	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 23:25	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 23:25	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 23:25	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 23:25	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 23:25	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 23:25	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 23:25	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 23:25	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 23:25	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 23:25	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 23:25	1
Iodomethane	ND		25	14	ug/L			09/26/20 23:25	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 23:25	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 23:25	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 23:25	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 23:25	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 23:25	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 23:25	1

Client Sample ID: PZ-2

Date Collected: 09/22/20 08:18
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 23:25	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 23:25	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 23:25	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 23:25	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 23:25	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 23:25	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 23:25	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 23:25	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 23:25	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 23:25	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 23:25	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:25	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 23:25	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 23:25	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 23:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 23:25	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 23:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 23:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1,1'-(Ethanediylidenediamino)bis(5-amino-1H-tetrazole)	*140*	*T J N*	*ug/L*		*1.43*	*1000225-88-0*		*09/26/20 23:25*	*1*
Unknown	*930*	*T J*	*ug/L*		*1.49*			*09/26/20 23:25*	*1*
Unknown	*46*	*T J*	*ug/L*		*1.77*			*09/26/20 23:25*	*1*
Unknown	*18*	*T J*	*ug/L*		*3.18*			*09/26/20 23:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 01:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*09/26/20 01:12*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 127*		*09/26/20 01:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 128*		*09/26/20 01:12*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/20 23:25*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 120*		*09/26/20 23:25*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 127*		*09/26/20 23:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 128*		*09/26/20 23:25*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 01:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*46*		*15 - 150*	*09/25/20 07:18*	*09/26/20 01:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*87*		*46 - 128*	*09/25/20 07:18*	*09/26/20 01:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	2.5	mg/L			09/25/20 02:13	10

Client Sample ID: PZ-2

Lab Sample ID: 440-272125-4

Date Collected: 09/22/20 08:18

Matrix: Water

Date Received: 09/22/20 14:38

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**3.5**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.1**		0.20	0.10	mg/L			09/23/20 16:01	1
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	**4200**		100	50	mg/L			09/23/20 09:25	1
Total Organic Carbon	**3.0**		0.10	0.050	mg/L			09/24/20 08:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**360**		4.0	4.0	mg/L			09/23/20 09:56	1

Client Sample ID: MW-5

Lab Sample ID: 440-272125-5

Date Collected: 09/22/20 10:07

Matrix: Water

Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 23:52	1
Acrolein	ND		10	0.59	ug/L			09/26/20 01:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 23:52	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 01:44	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 23:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 23:52	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 23:52	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 23:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:52	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 23:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 23:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 23:52	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 23:52	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 23:52	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 23:52	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 23:52	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 23:52	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 23:52	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 23:52	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 23:52	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 23:52	1
Acetone	ND		10	4.0	ug/L			09/26/20 23:52	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 23:52	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 23:52	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 23:52	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 23:52	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 23:52	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 23:52	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 23:52	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 23:52	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 23:52	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 23:52	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 23:52	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: MW-5
Date Collected: 09/22/20 10:07
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 23:52	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 23:52	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 23:52	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 23:52	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 23:52	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 23:52	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 23:52	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 23:52	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 23:52	1
Iodomethane	ND		25	14	ug/L			09/26/20 23:52	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 23:52	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 23:52	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 23:52	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 23:52	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 23:52	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 23:52	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 23:52	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 23:52	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 23:52	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 23:52	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 23:52	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 23:52	1
Tetrahydrofuran	**1.7**	**J**	2.0	0.57	ug/L			09/26/20 23:52	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 23:52	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 23:52	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 23:52	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 23:52	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:52	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 23:52	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 23:52	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 23:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 23:52	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 23:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 23:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*140*	*T J*	*ug/L*		*1.43*			*09/26/20 23:52*	*1*
Unknown	*1400*	*T J*	*ug/L*		*1.49*			*09/26/20 23:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*09/26/20 01:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*09/26/20 01:44*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/26/20 01:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 128*		*09/26/20 01:44*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/26/20 23:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*68 - 120*		*09/26/20 23:52*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 127*		*09/26/20 23:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 128*		*09/26/20 23:52*	*1*

Client Sample ID: MW-5

Date Collected: 09/22/20 10:07
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-5

Matrix: Water

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.4		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 01:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/25/20 07:18*	*09/26/20 01:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*99*		*46 - 128*	*09/25/20 07:18*	*09/26/20 01:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		25	13	mg/L			09/26/20 02:21	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	22		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.6		0.20	0.10	mg/L			09/23/20 16:07	1
Chemical Oxygen Demand	21		20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	3200		20	10	mg/L			09/23/20 09:25	1
Total Organic Carbon	22		0.50	0.25	mg/L			09/24/20 13:48	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	490		4.0	4.0	mg/L			09/23/20 10:18	1

Client Sample ID: MW-9

Date Collected: 09/22/20 11:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/27/20 00:19	1
Acrolein	ND		10	0.59	ug/L			09/26/20 02:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/27/20 00:19	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 02:16	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/27/20 00:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/27/20 00:19	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/27/20 00:19	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/27/20 00:19	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/20 00:19	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/27/20 00:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/27/20 00:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/27/20 00:19	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/27/20 00:19	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/27/20 00:19	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/27/20 00:19	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/27/20 00:19	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/27/20 00:19	1
1,4-Dichlorobenzene	0.19	J	0.50	0.073	ug/L			09/27/20 00:19	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/27/20 00:19	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/27/20 00:19	1

Client Sample ID: MW-9
Date Collected: 09/22/20 11:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10	0.50	ug/L			09/27/20 00:19	1
Acetone	**4.0**	**J**	10	4.0	ug/L			09/27/20 00:19	1
Acetonitrile	ND		10	2.0	ug/L			09/27/20 00:19	1
Benzene	ND		0.50	0.072	ug/L			09/27/20 00:19	1
Allyl chloride	ND		2.0	0.55	ug/L			09/27/20 00:19	1
Bromoform	ND		0.50	0.096	ug/L			09/27/20 00:19	1
Bromomethane	ND		2.0	0.99	ug/L			09/27/20 00:19	1
Carbon disulfide	ND		10	0.39	ug/L			09/27/20 00:19	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/27/20 00:19	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/27/20 00:19	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/27/20 00:19	1
Chloroethane	ND		0.50	0.12	ug/L			09/27/20 00:19	1
Chloroform	ND		0.50	0.062	ug/L			09/27/20 00:19	1
Chloromethane	ND		5.0	2.0	ug/L			09/27/20 00:19	1
cis-1,2-Dichloroethene	**0.34**	**J**	0.50	0.11	ug/L			09/27/20 00:19	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/27/20 00:19	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/27/20 00:19	1
Dibromomethane	ND		0.50	0.13	ug/L			09/27/20 00:19	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/27/20 00:19	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/27/20 00:19	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/27/20 00:19	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/27/20 00:19	1
Iodomethane	ND		25	14	ug/L			09/27/20 00:19	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/27/20 00:19	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/27/20 00:19	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/27/20 00:19	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/27/20 00:19	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/27/20 00:19	1
Methyl tert-butyl ether	**0.50**		0.50	0.067	ug/L			09/27/20 00:19	1
Naphthalene	ND		1.0	0.097	ug/L			09/27/20 00:19	1
o-Xylene	ND		0.50	0.086	ug/L			09/27/20 00:19	1
Propionitrile	ND		5.0	1.0	ug/L			09/27/20 00:19	1
Styrene	ND		0.50	0.059	ug/L			09/27/20 00:19	1
t-Butanol	ND		10	4.0	ug/L			09/27/20 00:19	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/27/20 00:19	1
Tetrahydrofuran	**5.4**		2.0	0.57	ug/L			09/27/20 00:19	1
Toluene	ND		0.50	0.093	ug/L			09/27/20 00:19	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/27/20 00:19	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/27/20 00:19	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/27/20 00:19	1
Trichloroethene	ND		0.50	0.10	ug/L			09/27/20 00:19	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/27/20 00:19	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/27/20 00:19	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/27/20 00:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/27/20 00:19	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/27/20 00:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/27/20 00:19	1

Client Sample ID: MW-9

Date Collected: 09/22/20 11:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-6

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-[4-Chlorophenyl]-6-[1-pyrrolidinyl]-1,2,4,5-tetrazine	79	T J N	ug/L		1.43	1000214-35-7		09/27/20 00:19	1
Unknown	77	T J	ug/L		1.44			09/27/20 00:19	1
Unknown	1700	T J	ug/L		1.49			09/27/20 00:19	1
Unknown	25	T J	ug/L		1.62			09/27/20 00:19	1
Methane, chlorodifluoro-	50	T J N	ug/L		1.67	75-45-6		09/27/20 00:19	1
Ethene, ethyloxy-	43	T J N	ug/L		3.02	1000221-95-9		09/27/20 00:19	1
Silane, methoxytrimethyl-	57	T J N	ug/L		4.19	1825-61-2		09/27/20 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/26/20 02:16	1
4-Bromofluorobenzene (Surr)	98		68 - 120		09/26/20 02:16	1
Dibromofluoromethane (Surr)	102		80 - 127		09/26/20 02:16	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 128		09/26/20 02:16	1
Toluene-d8 (Surr)	103		80 - 120		09/27/20 00:19	1
4-Bromofluorobenzene (Surr)	91		68 - 120		09/27/20 00:19	1
Dibromofluoromethane (Surr)	104		80 - 127		09/27/20 00:19	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 128		09/27/20 00:19	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	40		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 02:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	48		15 - 150	09/25/20 07:18	09/26/20 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83		46 - 128	09/25/20 07:18	09/26/20 02:01	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		50	25	mg/L			09/26/20 02:40	100

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	20		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	4.1		0.20	0.10	mg/L			09/23/20 16:12	1
Chemical Oxygen Demand	38		20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	3800		20	10	mg/L			09/23/20 09:25	1
Total Organic Carbon	31		0.50	0.25	mg/L			09/24/20 14:04	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	700		4.0	4.0	mg/L			09/23/20 10:32	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: MW-1
Date Collected: 09/22/20 12:45
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/27/20 00:45	1
Acrolein	ND		10	0.59	ug/L			09/26/20 02:48	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/27/20 00:45	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 02:48	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/27/20 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/27/20 00:45	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/27/20 00:45	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/27/20 00:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/20 00:45	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/27/20 00:45	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/27/20 00:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/27/20 00:45	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/27/20 00:45	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/27/20 00:45	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/27/20 00:45	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/27/20 00:45	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/27/20 00:45	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/27/20 00:45	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/27/20 00:45	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/27/20 00:45	1
2-Hexanone	ND		10	0.50	ug/L			09/27/20 00:45	1
Acetone	ND		10	4.0	ug/L			09/27/20 00:45	1
Acetonitrile	ND		10	2.0	ug/L			09/27/20 00:45	1
Benzene	ND		0.50	0.072	ug/L			09/27/20 00:45	1
Allyl chloride	ND		2.0	0.55	ug/L			09/27/20 00:45	1
Bromoform	ND		0.50	0.096	ug/L			09/27/20 00:45	1
Bromomethane	ND		2.0	0.99	ug/L			09/27/20 00:45	1
Carbon disulfide	ND		10	0.39	ug/L			09/27/20 00:45	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/27/20 00:45	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/27/20 00:45	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/27/20 00:45	1
Chloroethane	ND		0.50	0.12	ug/L			09/27/20 00:45	1
Chloroform	ND		0.50	0.062	ug/L			09/27/20 00:45	1
Chloromethane	ND		5.0	2.0	ug/L			09/27/20 00:45	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/27/20 00:45	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/27/20 00:45	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/27/20 00:45	1
Dibromomethane	ND		0.50	0.13	ug/L			09/27/20 00:45	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/27/20 00:45	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/27/20 00:45	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/27/20 00:45	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/27/20 00:45	1
Iodomethane	ND		25	14	ug/L			09/27/20 00:45	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/27/20 00:45	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/27/20 00:45	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/27/20 00:45	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/27/20 00:45	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/27/20 00:45	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/27/20 00:45	1

Client Sample ID: MW-1

Date Collected: 09/22/20 12:45
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.097	ug/L			09/27/20 00:45	1
o-Xylene	ND		0.50	0.086	ug/L			09/27/20 00:45	1
Propionitrile	ND		5.0	1.0	ug/L			09/27/20 00:45	1
Styrene	ND		0.50	0.059	ug/L			09/27/20 00:45	1
t-Butanol	ND		10	4.0	ug/L			09/27/20 00:45	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/27/20 00:45	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/27/20 00:45	1
Toluene	ND		0.50	0.093	ug/L			09/27/20 00:45	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/27/20 00:45	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/27/20 00:45	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/27/20 00:45	1
Trichloroethene	ND		0.50	0.10	ug/L			09/27/20 00:45	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/27/20 00:45	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/27/20 00:45	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/27/20 00:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/27/20 00:45	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/27/20 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/27/20 00:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*140*	*T J*	*ug/L*		*1.43*			*09/27/20 00:45*	*1*
Unknown	*1200*	*T J*	*ug/L*		*1.49*			*09/27/20 00:45*	*1*
Unknown	*21*	*T J*	*ug/L*		*3.17*			*09/27/20 00:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/20 02:48*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*09/26/20 02:48*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 127*		*09/26/20 02:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 128*		*09/26/20 02:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/20 00:45*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*09/27/20 00:45*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 127*		*09/27/20 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 128*		*09/27/20 00:45*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 02:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*50*		*15 - 150*	*09/25/20 07:18*	*09/26/20 02:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*99*		*46 - 128*	*09/25/20 07:18*	*09/26/20 02:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		25	13	mg/L			09/26/20 02:59	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**29**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:34	1

Client Sample ID: MW-1
Lab Sample ID: 440-272125-7

Date Collected: 09/22/20 12:45
Matrix: Water
Date Received: 09/22/20 14:38

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	4.9		0.20	0.10	mg/L			09/25/20 11:31	1
Chemical Oxygen Demand	11	J	20	10	mg/L			09/29/20 15:30	1
Total Dissolved Solids	1500		10	5.0	mg/L			09/23/20 09:25	1
Total Organic Carbon	7.3		0.10	0.050	mg/L			09/24/20 09:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	300		4.0	4.0	mg/L			09/23/20 10:41	1

Client Sample ID: Extraction Trench
Lab Sample ID: 440-272125-8

Date Collected: 09/22/20 09:12
Matrix: Water
Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0	0.38	ug/L			09/26/20 06:07	5
Acrolein	ND		50	3.0	ug/L			09/26/20 06:07	5
1,1,1,2-Tetrachloroethane	ND		2.5	0.35	ug/L			09/26/20 06:07	5
Acrylonitrile	ND		25	2.9	ug/L			09/26/20 06:07	5
1,1,1-Trichloroethane	ND		2.5	0.42	ug/L			09/26/20 06:07	5
1,1,2,2-Tetrachloroethane	ND		2.5	0.43	ug/L			09/26/20 06:07	5
1,1,2-Trichloroethane	ND		2.5	0.35	ug/L			09/26/20 06:07	5
1,1-Dichloroethane	ND		2.5	0.30	ug/L			09/26/20 06:07	5
1,1-Dichloroethene	ND		2.5	0.51	ug/L			09/26/20 06:07	5
1,1-Dichloropropene	ND		2.5	0.35	ug/L			09/26/20 06:07	5
1,2,4-Trichlorobenzene	ND		2.5	0.45	ug/L			09/26/20 06:07	5
1,2-Dibromo-3-Chloropropane	ND		25	2.6	ug/L			09/26/20 06:07	5
1,2-Dichlorobenzene	ND		2.5	0.41	ug/L			09/26/20 06:07	5
1,2-Dichloroethane	ND		2.5	0.37	ug/L			09/26/20 06:07	5
1,2-Dichloropropane	ND		2.5	0.49	ug/L			09/26/20 06:07	5
1,3-Dichlorobenzene	ND		2.5	0.49	ug/L			09/26/20 06:07	5
1,3-Dichloropropane	ND		5.0	0.41	ug/L			09/26/20 06:07	5
1,4-Dichlorobenzene	0.57	J	2.5	0.37	ug/L			09/26/20 06:07	5
2,2-Dichloropropane	ND		5.0	1.9	ug/L			09/26/20 06:07	5
2-Chloro-1,3-butadiene	ND		50	0.47	ug/L			09/26/20 06:07	5
2-Hexanone	ND		50	2.5	ug/L			09/26/20 06:07	5
Acetone	ND		50	20	ug/L			09/26/20 06:07	5
Acetonitrile	ND		50	10	ug/L			09/26/20 06:07	5
Benzene	ND		2.5	0.36	ug/L			09/26/20 06:07	5
Allyl chloride	ND		10	2.8	ug/L			09/26/20 06:07	5
Bromoform	ND		2.5	0.48	ug/L			09/26/20 06:07	5
Bromomethane	ND		10	5.0	ug/L			09/26/20 06:07	5
Carbon disulfide	ND		50	1.9	ug/L			09/26/20 06:07	5
Carbon tetrachloride	ND		2.5	0.28	ug/L			09/26/20 06:07	5
Chlorobenzene	ND		2.5	0.44	ug/L			09/26/20 06:07	5
Bromochloromethane	ND		5.0	0.41	ug/L			09/26/20 06:07	5
Chloroethane	ND		2.5	0.59	ug/L			09/26/20 06:07	5
Chloroform	ND		2.5	0.31	ug/L			09/26/20 06:07	5
Chloromethane	ND		25	9.8	ug/L			09/26/20 06:07	5
cis-1,2-Dichloroethene	1.2	J	2.5	0.54	ug/L			09/26/20 06:07	5
cis-1,3-Dichloropropene	ND		2.5	0.48	ug/L			09/26/20 06:07	5
Dibromochloromethane	ND		2.5	0.32	ug/L			09/26/20 06:07	5

Client Sample ID: Extraction Trench
Date Collected: 09/22/20 09:12
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		2.5	0.63	ug/L			09/26/20 06:07	5
Bromodichloromethane	ND		2.5	0.26	ug/L			09/26/20 06:07	5
Dichlorodifluoromethane	ND		5.0	0.50	ug/L			09/26/20 06:07	5
Ethyl methacrylate	ND		10	0.28	ug/L			09/26/20 06:07	5
Ethylbenzene	ND		2.5	0.44	ug/L			09/26/20 06:07	5
Iodomethane	ND		130	71	ug/L			09/26/20 06:07	5
Isobutyl alcohol	ND	*	50	9.4	ug/L			09/26/20 06:07	5
m,p-Xylene	ND		5.0	0.74	ug/L			09/26/20 06:07	5
Methylacrylonitrile	ND		10	2.1	ug/L			09/26/20 06:07	5
Methyl methacrylate	ND		10	2.4	ug/L			09/26/20 06:07	5
Methylene Chloride	ND		5.0	0.21	ug/L			09/26/20 06:07	5
Methyl tert-butyl ether	ND		2.5	0.33	ug/L			09/26/20 06:07	5
Naphthalene	ND		5.0	0.48	ug/L			09/26/20 06:07	5
o-Xylene	ND		2.5	0.43	ug/L			09/26/20 06:07	5
Propionitrile	ND		25	5.2	ug/L			09/26/20 06:07	5
Styrene	ND		2.5	0.29	ug/L			09/26/20 06:07	5
t-Butanol	ND		50	20	ug/L			09/26/20 06:07	5
Tetrachloroethene	ND		2.5	1.2	ug/L			09/26/20 06:07	5
Tetrahydrofuran	**19**		10	2.8	ug/L			09/26/20 06:07	5
Toluene	ND		2.5	0.46	ug/L			09/26/20 06:07	5
trans-1,2-Dichloroethene	ND		2.5	0.41	ug/L			09/26/20 06:07	5
trans-1,3-Dichloropropene	ND		2.5	0.27	ug/L			09/26/20 06:07	5
trans-1,4-Dichloro-2-butene	ND		10	0.68	ug/L			09/26/20 06:07	5
Trichloroethene	ND		2.5	0.51	ug/L			09/26/20 06:07	5
Trichlorofluoromethane	ND		2.5	0.52	ug/L			09/26/20 06:07	5
Vinyl acetate	ND		25	3.5	ug/L			09/26/20 06:07	5
Vinyl chloride	ND		2.5	0.39	ug/L			09/26/20 06:07	5
1,2-Dibromoethane (EDB)	ND		2.5	0.30	ug/L			09/26/20 06:07	5
2-Butanone (MEK)	ND		25	2.3	ug/L			09/26/20 06:07	5
4-Methyl-2-pentanone (MIBK)	ND		25	2.1	ug/L			09/26/20 06:07	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*710*	*T J*	*ug/L*		*1.44*			*09/26/20 06:07*	*5*
Unknown	*5400*	*T J*	*ug/L*		*1.49*			*09/26/20 06:07*	*5*
Sulfur dioxide	*4300*	*T J N*	*ug/L*		*1.76*	*7446-09-5*		*09/26/20 06:07*	*5*
Sulfur dioxide	*150*	*T J N*	*ug/L*		*1.97*	*7446-09-5*		*09/26/20 06:07*	*5*
Sulfur dioxide	*200*	*T J N*	*ug/L*		*2.13*	*7446-09-5*		*09/26/20 06:07*	*5*
Sulfur dioxide	*300*	*T J N*	*ug/L*		*2.19*	*7446-09-5*		*09/26/20 06:07*	*5*
Sulfur dioxide	*140*	*T J N*	*ug/L*		*2.60*	*7446-09-5*		*09/26/20 06:07*	*5*
Sulfur dioxide	*230*	*T J N*	*ug/L*		*2.66*	*7446-09-5*		*09/26/20 06:07*	*5*
Unknown	*310*	*T J*	*ug/L*		*4.18*			*09/26/20 06:07*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 06:07*	*5*
4-Bromofluorobenzene (Surr)	*91*		*68 - 120*		*09/26/20 06:07*	*5*
Dibromofluoromethane (Surr)	*108*		*80 - 127*		*09/26/20 06:07*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*09/26/20 06:07*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 06:07*	*5*
4-Bromofluorobenzene (Surr)	*91*		*68 - 120*		*09/26/20 06:07*	*5*
Dibromofluoromethane (Surr)	*108*		*80 - 127*		*09/26/20 06:07*	*5*

Client Sample ID: Extraction Trench
Lab Sample ID: 440-272125-8
Date Collected: 09/22/20 09:12
Matrix: Water
Date Received: 09/22/20 14:38

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*09/26/20 06:07*	*5*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**130**		5.0	1.8	ug/L		09/25/20 07:18	09/28/20 16:03	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*40*	**3*	*15 - 150*	*09/25/20 07:18*	*09/28/20 16:03*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*47*	**3*	*46 - 128*	*09/25/20 07:18*	*09/28/20 16:03*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**670**		100	50	mg/L			09/26/20 04:31	200

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**75**		0.50	0.25	mg/L		09/29/20 14:36	09/30/20 13:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**24**		1.0	0.50	mg/L			09/25/20 12:07	5
Chemical Oxygen Demand	**390**		20	10	mg/L			09/30/20 14:42	1
Total Dissolved Solids	**4600**		50	25	mg/L			09/23/20 09:25	1
Total Organic Carbon	**170**		5.0	2.5	mg/L			09/25/20 06:26	50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**1200**		4.0	4.0	mg/L			09/23/20 11:01	1

Client Sample ID: LY-7
Lab Sample ID: 440-272125-9
Date Collected: 09/22/20 07:18
Matrix: Water
Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 06:34	1
Acrolein	ND		10	0.59	ug/L			09/26/20 06:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 06:34	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 06:34	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 06:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 06:34	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 06:34	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 06:34	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 06:34	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 06:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 06:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 06:34	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 06:34	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 06:34	1
1,2-Dichloropropane	**0.17**	**J**	0.50	0.099	ug/L			09/26/20 06:34	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 06:34	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: LY-7
Date Collected: 09/22/20 07:18
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 06:34	1
1,4-Dichlorobenzene	**1.3**		0.50	0.073	ug/L			09/26/20 06:34	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 06:34	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 06:34	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 06:34	1
Acetone	ND		10	4.0	ug/L			09/26/20 06:34	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 06:34	1
Benzene	**0.90**		0.50	0.072	ug/L			09/26/20 06:34	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 06:34	1
Bromoform	ND	F1	0.50	0.096	ug/L			09/26/20 06:34	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 06:34	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 06:34	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 06:34	1
Chlorobenzene	**0.31**	**J**	0.50	0.088	ug/L			09/26/20 06:34	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 06:34	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 06:34	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 06:34	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 06:34	1
cis-1,2-Dichloroethene	**2.5**		0.50	0.11	ug/L			09/26/20 06:34	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 06:34	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 06:34	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 06:34	1
Bromodichloromethane	ND	F1	0.50	0.053	ug/L			09/26/20 06:34	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 06:34	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 06:34	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 06:34	1
Iodomethane	ND	F2	25	14	ug/L			09/26/20 06:34	1
Isobutyl alcohol	ND	* F1	10	1.9	ug/L			09/26/20 06:34	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 06:34	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 06:34	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 06:34	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 06:34	1
Methyl tert-butyl ether	**3.9**		0.50	0.067	ug/L			09/26/20 06:34	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 06:34	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 06:34	1
Propionitrile	ND	F2	5.0	1.0	ug/L			09/26/20 06:34	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 06:34	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 06:34	1
Tetrahydrofuran	**2.1**		2.0	0.57	ug/L			09/26/20 06:34	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 06:34	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 06:34	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 06:34	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 06:34	1
Trichloroethene	**0.25**	**J**	0.50	0.10	ug/L			09/26/20 06:34	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 06:34	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 06:34	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 06:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 06:34	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 06:34	1

Client Sample ID: LY-7

Date Collected: 09/22/20 07:18
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 06:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Germacyclohexane, 1,1-dichloro-	*120*	*T J N*	*ug/L*		*1.43*	*56438-28-9*		*09/26/20 06:34*	*1*
Unknown	*2500*	*T J*	*ug/L*		*1.49*			*09/26/20 06:34*	*1*
Unknown	*42*	*T J*	*ug/L*		*1.57*			*09/26/20 06:34*	*1*
Unknown	*35*	*T J*	*ug/L*		*1.62*			*09/26/20 06:34*	*1*
Unknown	*40*	*T J*	*ug/L*		*1.66*			*09/26/20 06:34*	*1*
Sulfur dioxide	*150*	*T J N*	*ug/L*		*1.76*	*7446-09-5*		*09/26/20 06:34*	*1*
Unknown	*38*	*T J*	*ug/L*		*1.92*			*09/26/20 06:34*	*1*
Sulfur dioxide	*54*	*T J N*	*ug/L*		*2.11*	*7446-09-5*		*09/26/20 06:34*	*1*
Ethyl ether	*3.7*		*ug/L*		*3.02*	*60-29-7*		*09/26/20 06:34*	*1*
Benzene, 1-chloro-4-(trifluoromethyl)-	*2.1*	*T J N*	*ug/L*		*11.15*	*98-56-6*		*09/26/20 06:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 06:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*09/26/20 06:34*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 127*		*09/26/20 06:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*09/26/20 06:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 06:34*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*09/26/20 06:34*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 127*		*09/26/20 06:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*09/26/20 06:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	**990**		100	40	ug/L			10/04/20 21:57	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*110*	*T J*	*ug/L*		*1.60*			*10/04/20 21:57*	*10*
Unknown	*260*	*T J*	*ug/L*		*1.69*			*10/04/20 21:57*	*10*
Unknown	*140*	*T J*	*ug/L*		*2.09*			*10/04/20 21:57*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/04/20 21:57*	*10*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*10/04/20 21:57*	*10*
Dibromofluoromethane (Surr)	*100*		*80 - 127*		*10/04/20 21:57*	*10*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*10/04/20 21:57*	*10*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**31**		0.50	0.18	ug/L		09/25/20 07:18	09/26/20 02:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*09/25/20 07:18*	*09/26/20 02:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*92*		*46 - 128*	*09/25/20 07:18*	*09/26/20 02:48*	*1*

Client Sample ID: LY-7

Lab Sample ID: 440-272125-9

Date Collected: 09/22/20 07:18

Matrix: Water

Date Received: 09/22/20 14:38

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		100	50	mg/L			09/26/20 04:50	200

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	46		0.50	0.25	mg/L		09/29/20 14:41	09/30/20 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	26		1.0	0.50	mg/L			09/25/20 12:12	5
Chemical Oxygen Demand	150		20	10	mg/L			09/30/20 14:42	1
Total Dissolved Solids	4100		100	50	mg/L			09/23/20 09:25	1
Total Organic Carbon	25		0.50	0.25	mg/L			09/24/20 09:47	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	2100		4.0	4.0	mg/L			09/23/20 11:32	1

Client Sample ID: Field Blank

Lab Sample ID: 440-272125-10

Date Collected: 09/22/20 00:01

Matrix: Water

Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/27/20 01:12	1
Acrolein	ND		10	0.59	ug/L			09/25/20 23:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/27/20 01:12	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 23:04	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/27/20 01:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/27/20 01:12	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/27/20 01:12	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/27/20 01:12	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/27/20 01:12	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/27/20 01:12	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/27/20 01:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/27/20 01:12	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/27/20 01:12	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/27/20 01:12	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/27/20 01:12	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/27/20 01:12	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/27/20 01:12	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/27/20 01:12	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/27/20 01:12	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/27/20 01:12	1
2-Hexanone	ND		10	0.50	ug/L			09/27/20 01:12	1
Acetone	5.5	J	10	4.0	ug/L			09/27/20 01:12	1
Acetonitrile	ND		10	2.0	ug/L			09/27/20 01:12	1
Benzene	ND		0.50	0.072	ug/L			09/27/20 01:12	1
Allyl chloride	ND		2.0	0.55	ug/L			09/27/20 01:12	1
Bromoform	ND		0.50	0.096	ug/L			09/27/20 01:12	1
Bromomethane	ND		2.0	0.99	ug/L			09/27/20 01:12	1
Carbon disulfide	ND		10	0.39	ug/L			09/27/20 01:12	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/27/20 01:12	1

Client Sample ID: Field Blank

Date Collected: 09/22/20 00:01
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.088	ug/L			09/27/20 01:12	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/27/20 01:12	1
Chloroethane	ND		0.50	0.12	ug/L			09/27/20 01:12	1
Chloroform	ND		0.50	0.062	ug/L			09/27/20 01:12	1
Chloromethane	ND		5.0	2.0	ug/L			09/27/20 01:12	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/27/20 01:12	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/27/20 01:12	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/27/20 01:12	1
Dibromomethane	ND		0.50	0.13	ug/L			09/27/20 01:12	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/27/20 01:12	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/27/20 01:12	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/27/20 01:12	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/27/20 01:12	1
Iodomethane	ND		25	14	ug/L			09/27/20 01:12	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/27/20 01:12	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/27/20 01:12	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/27/20 01:12	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/27/20 01:12	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/27/20 01:12	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/27/20 01:12	1
Naphthalene	ND		1.0	0.097	ug/L			09/27/20 01:12	1
o-Xylene	ND		0.50	0.086	ug/L			09/27/20 01:12	1
Propionitrile	ND		5.0	1.0	ug/L			09/27/20 01:12	1
Styrene	ND		0.50	0.059	ug/L			09/27/20 01:12	1
t-Butanol	ND		10	4.0	ug/L			09/27/20 01:12	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/27/20 01:12	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/27/20 01:12	1
Toluene	ND		0.50	0.093	ug/L			09/27/20 01:12	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/27/20 01:12	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/27/20 01:12	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/27/20 01:12	1
Trichloroethene	ND		0.50	0.10	ug/L			09/27/20 01:12	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/27/20 01:12	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/27/20 01:12	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/27/20 01:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/27/20 01:12	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/27/20 01:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/27/20 01:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*130*	*T J*	*ug/L*		*1.44*			*09/27/20 01:12*	*1*
Unknown	*730*	*T J*	*ug/L*		*1.49*			*09/27/20 01:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/20 23:04*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/25/20 23:04*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 127*		*09/25/20 23:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 128*		*09/25/20 23:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/20 01:12*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*09/27/20 01:12*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-272125-10

Date Collected: 09/22/20 00:01
Matrix: Water
Date Received: 09/22/20 14:38

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*80 - 127*		*09/27/20 01:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*09/27/20 01:12*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-272125-11

Date Collected: 09/22/20 00:01
Matrix: Water
Date Received: 09/22/20 14:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/25/20 22:58	1
Acrolein	ND		10	0.59	ug/L			09/25/20 22:58	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/25/20 22:58	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 22:58	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/25/20 22:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/25/20 22:58	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/25/20 22:58	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/25/20 22:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:58	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/25/20 22:58	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/25/20 22:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/25/20 22:58	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/25/20 22:58	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/25/20 22:58	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/25/20 22:58	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/25/20 22:58	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/25/20 22:58	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/25/20 22:58	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/25/20 22:58	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/25/20 22:58	1
2-Hexanone	ND		10	0.50	ug/L			09/25/20 22:58	1
Acetone	ND		10	4.0	ug/L			09/25/20 22:58	1
Acetonitrile	ND		10	2.0	ug/L			09/25/20 22:58	1
Benzene	ND		0.50	0.072	ug/L			09/25/20 22:58	1
Allyl chloride	ND		2.0	0.55	ug/L			09/25/20 22:58	1
Bromoform	ND		0.50	0.096	ug/L			09/25/20 22:58	1
Bromomethane	ND		2.0	0.99	ug/L			09/25/20 22:58	1
Carbon disulfide	ND		10	0.39	ug/L			09/25/20 22:58	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/25/20 22:58	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/25/20 22:58	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/25/20 22:58	1
Chloroethane	ND		0.50	0.12	ug/L			09/25/20 22:58	1
Chloroform	ND		0.50	0.062	ug/L			09/25/20 22:58	1
Chloromethane	ND		5.0	2.0	ug/L			09/25/20 22:58	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/25/20 22:58	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/25/20 22:58	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/25/20 22:58	1
Dibromomethane	ND		0.50	0.13	ug/L			09/25/20 22:58	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/25/20 22:58	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/25/20 22:58	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: Trip Blank
Date Collected: 09/22/20 00:01
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/25/20 22:58	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/25/20 22:58	1
Iodomethane	ND		25	14	ug/L			09/25/20 22:58	1
Isobutyl alcohol	ND	*	10	1.9	ug/L			09/25/20 22:58	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/25/20 22:58	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/25/20 22:58	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/25/20 22:58	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/25/20 22:58	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/25/20 22:58	1
Naphthalene	ND		1.0	0.097	ug/L			09/25/20 22:58	1
o-Xylene	ND		0.50	0.086	ug/L			09/25/20 22:58	1
Propionitrile	ND		5.0	1.0	ug/L			09/25/20 22:58	1
Styrene	ND		0.50	0.059	ug/L			09/25/20 22:58	1
t-Butanol	ND		10	4.0	ug/L			09/25/20 22:58	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/25/20 22:58	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/25/20 22:58	1
Toluene	ND		0.50	0.093	ug/L			09/25/20 22:58	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/25/20 22:58	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/25/20 22:58	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/25/20 22:58	1
Trichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:58	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/25/20 22:58	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/25/20 22:58	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/25/20 22:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/25/20 22:58	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/25/20 22:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/25/20 22:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Propane, 1-chloro-	*130*	*T J N*	*ug/L*		*1.43*	*540-54-5*		*09/25/20 22:58*	*1*
Unknown	*600*	*T J*	*ug/L*		*1.49*			*09/25/20 22:58*	*1*
Unknown	*17*	*T J*	*ug/L*		*1.54*			*09/25/20 22:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/20 22:58*	*1*
4-Bromofluorobenzene (Surr)	*91*		*68 - 120*		*09/25/20 22:58*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 127*		*09/25/20 22:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 128*		*09/25/20 22:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/20 22:58*	*1*
4-Bromofluorobenzene (Surr)	*91*		*68 - 120*		*09/25/20 22:58*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 127*		*09/25/20 22:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 128*		*09/25/20 22:58*	*1*

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 1
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
350.1	Nitrogen, Ammonia	MCAWW	TAL IRV
410.4	COD	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: DW-2

Date Collected: 09/22/20 08:15
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 22:05	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/25/20 23:36	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/25/20 18:56	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625535	09/25/20 01:26	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:20	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:45	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:29	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 09:08	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 07:20	YZ	TAL IRV

Client Sample ID: DW-3

Date Collected: 09/22/20 09:25
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 22:32	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 00:08	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 00:58	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625535	09/25/20 01:42	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:22	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:51	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 09:26	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 07:55	YZ	TAL IRV

Client Sample ID: DW-5

Date Collected: 09/22/20 11:44
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 22:58	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 00:40	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 01:13	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625535	09/25/20 01:57	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:24	KE	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: DW-5

Date Collected: 09/22/20 11:44
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 15:56	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 09:43	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 08:10	YZ	TAL IRV

Client Sample ID: PZ-2

Date Collected: 09/22/20 08:18
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 23:25	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 01:12	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 01:29	AJ2Q	ECL 1
Total/NA	Analysis	300.0		10			625535	09/25/20 02:13	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:27	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 16:01	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 09:56	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 08:25	YZ	TAL IRV

Client Sample ID: MW-5

Date Collected: 09/22/20 10:07
Date Received: 09/22/20 14:38

Lab Sample ID: 440-272125-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/26/20 23:52	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 01:44	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 01:45	AJ2Q	ECL 1
Total/NA	Analysis	300.0		50			625700	09/26/20 02:21	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:29	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 16:07	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 10:18	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	625671	09/24/20 13:48	YZ	TAL IRV

Client Sample ID: MW-9
Lab Sample ID: 440-272125-6
Date Collected: 09/22/20 11:15
Matrix: Water
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/27/20 00:19	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 02:16	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 02:01	AJ2Q	ECL 1
Total/NA	Analysis	300.0		100			625700	09/26/20 02:40	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:32	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8 mL	625470	09/23/20 16:12	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 10:32	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	625671	09/24/20 14:04	YZ	TAL IRV

Client Sample ID: MW-1
Lab Sample ID: 440-272125-7
Date Collected: 09/22/20 12:45
Matrix: Water
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/27/20 00:45	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/26/20 02:48	UX77	ECL 2
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 02:16	AJ2Q	ECL 1
Total/NA	Analysis	300.0		50			625700	09/26/20 02:59	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:34	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	625754	09/25/20 11:31	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626113	09/29/20 15:30	KMY	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 10:41	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 09:14	YZ	TAL IRV

Client Sample ID: Extraction Trench
Lab Sample ID: 440-272125-8
Date Collected: 09/22/20 09:12
Matrix: Water
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5			97365	09/26/20 06:07	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		10			97690	09/28/20 16:03	AJ2Q	ECL 1
Total/NA	Analysis	300.0		200			625700	09/26/20 04:31	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626109	09/29/20 14:36	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			626249	09/30/20 13:37	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	625754	09/25/20 12:07	KMY	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Client Sample ID: Extraction Trench

Lab Sample ID: 440-272125-8
Matrix: Water
Date Collected: 09/22/20 09:12
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	2 mL	2 mL	626238	09/30/20 14:42	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 11:01	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		50	100 mL	100 mL	625825	09/25/20 06:26	YZ	TAL IRV

Client Sample ID: LY-7

Lab Sample ID: 440-272125-9
Matrix: Water
Date Collected: 09/22/20 07:18
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	20 mL	20 mL	99335	10/04/20 21:57	UJHB	ECL 2
Total/NA	Analysis	8260B		1			97365	09/26/20 06:34	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	97125	09/25/20 07:18	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97268	09/26/20 02:48	AJ2Q	ECL 1
Total/NA	Analysis	300.0		200			625700	09/26/20 04:50	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	626109	09/29/20 14:41	A1M	TAL IRV
Total Recoverable	Analysis	6010B		1			626249	09/30/20 13:50	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	625754	09/25/20 12:12	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626238	09/30/20 14:42	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1			625411	09/23/20 11:32	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	625388	09/23/20 09:25	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	625671	09/24/20 09:47	YZ	TAL IRV

Client Sample ID: Field Blank

Lab Sample ID: 440-272125-10
Matrix: Water
Date Collected: 09/22/20 00:01
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	97477	09/27/20 01:12	UX77	ECL 2
Total/NA	Analysis	8260B		1	20 mL	20 mL	97320	09/25/20 23:04	UX77	ECL 2

Client Sample ID: Trip Blank

Lab Sample ID: 440-272125-11
Matrix: Water
Date Collected: 09/22/20 00:01
Date Received: 09/22/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97365	09/25/20 22:58	UX77	ECL

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 570-97320/14
Matrix: Water
Analysis Batch: 97320

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		10	0.59	ug/L			09/25/20 22:32	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 22:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*09/25/20 22:32*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 120*		*09/25/20 22:32*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/25/20 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*09/25/20 22:32*	*1*

Lab Sample ID: LCS 570-97320/1011
Matrix: Water
Analysis Batch: 97320

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acrolein			20.0	16.8		ug/L		84	61 - 144		
Acrylonitrile			10.0	8.95		ug/L		89	53 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 128*

Lab Sample ID: LCSD 570-97320/12
Matrix: Water
Analysis Batch: 97320

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein			20.0	17.4		ug/L		87	61 - 144	3	30
Acrylonitrile			10.0	9.98		ug/L		100	53 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Lab Sample ID: MB 570-97365/7
Matrix: Water
Analysis Batch: 97365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/25/20 22:32	1
Acrolein	ND		10	0.59	ug/L			09/25/20 22:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/25/20 22:32	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/25/20 22:32	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/25/20 22:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/25/20 22:32	1

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

Lab Sample ID: MB 570-97365/7
Matrix: Water
Analysis Batch: 97365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/25/20 22:32	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/25/20 22:32	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:32	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/25/20 22:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/25/20 22:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/25/20 22:32	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/25/20 22:32	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/25/20 22:32	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/25/20 22:32	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/25/20 22:32	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/25/20 22:32	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/25/20 22:32	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/25/20 22:32	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/25/20 22:32	1
2-Hexanone	ND		10	0.50	ug/L			09/25/20 22:32	1
Acetone	ND		10	4.0	ug/L			09/25/20 22:32	1
Acetonitrile	ND		10	2.0	ug/L			09/25/20 22:32	1
Benzene	ND		0.50	0.072	ug/L			09/25/20 22:32	1
Allyl chloride	ND		2.0	0.55	ug/L			09/25/20 22:32	1
Bromoform	ND		0.50	0.096	ug/L			09/25/20 22:32	1
Bromomethane	ND		2.0	0.99	ug/L			09/25/20 22:32	1
Carbon disulfide	ND		10	0.39	ug/L			09/25/20 22:32	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/25/20 22:32	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/25/20 22:32	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/25/20 22:32	1
Chloroethane	ND		0.50	0.12	ug/L			09/25/20 22:32	1
Chloroform	ND		0.50	0.062	ug/L			09/25/20 22:32	1
Chloromethane	ND		5.0	2.0	ug/L			09/25/20 22:32	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/25/20 22:32	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/25/20 22:32	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/25/20 22:32	1
Dibromomethane	ND		0.50	0.13	ug/L			09/25/20 22:32	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/25/20 22:32	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/25/20 22:32	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/25/20 22:32	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/25/20 22:32	1
Iodomethane	ND		25	14	ug/L			09/25/20 22:32	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/25/20 22:32	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/25/20 22:32	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/25/20 22:32	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/25/20 22:32	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/25/20 22:32	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/25/20 22:32	1
Naphthalene	ND		1.0	0.097	ug/L			09/25/20 22:32	1
o-Xylene	ND		0.50	0.086	ug/L			09/25/20 22:32	1
Propionitrile	ND		5.0	1.0	ug/L			09/25/20 22:32	1
Styrene	ND		0.50	0.059	ug/L			09/25/20 22:32	1
t-Butanol	ND		10	4.0	ug/L			09/25/20 22:32	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/25/20 22:32	1

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

Lab Sample ID: MB 570-97365/7
Matrix: Water
Analysis Batch: 97365

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/25/20 22:32	1
Toluene	ND		0.50	0.093	ug/L			09/25/20 22:32	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/25/20 22:32	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/25/20 22:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/25/20 22:32	1
Trichloroethene	ND		0.50	0.10	ug/L			09/25/20 22:32	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/25/20 22:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/25/20 22:32	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/25/20 22:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/25/20 22:32	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/25/20 22:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/25/20 22:32	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/25/20 22:32*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/25/20 22:32*	*1*
4-Bromofluorobenzene (Surr)	*87*		*68 - 120*		*09/25/20 22:32*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*09/25/20 22:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*		*09/25/20 22:32*	*1*

Lab Sample ID: LCS 570-97365/4
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120
Acrolein	20.0	16.9		ug/L		85	61 - 144
1,1,1,2-Tetrachloroethane	10.0	12.3		ug/L		123	80 - 126
Acrylonitrile	10.0	11.4		ug/L		114	53 - 130
1,1,1-Trichloroethane	10.0	11.6		ug/L		116	80 - 125
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	80 - 120
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 120
1,1-Dichloroethane	10.0	11.3		ug/L		113	77 - 120
1,1-Dichloroethene	10.0	10.5		ug/L		105	74 - 128
1,1-Dichloropropene	10.0	11.5		ug/L		115	79 - 125
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	67 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123
1,2-Dichloropropane	10.0	11.4		ug/L		114	80 - 120
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,3-Dichloropropane	10.0	11.4		ug/L		114	80 - 120
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	10.8		ug/L		108	77 - 139
2-Hexanone	10.0	8.25	J	ug/L		83	66 - 129
Acetone	10.0	10.1		ug/L		101	58 - 131

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

Lab Sample ID: LCS 570-97365/4
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.9		ug/L		109	80 - 120
Bromoform	10.0	13.0		ug/L		130	70 - 141
Bromomethane	10.0	13.4		ug/L		134	50 - 150
Carbon disulfide	10.0	11.6		ug/L		116	65 - 136
Carbon tetrachloride	10.0	12.7		ug/L		127	75 - 142
Chlorobenzene	10.0	11.2		ug/L		112	80 - 120
Bromochloromethane	10.0	11.4		ug/L		114	80 - 120
Chloroethane	10.0	12.0		ug/L		120	74 - 123
Chloroform	10.0	11.5		ug/L		115	80 - 120
Chloromethane	10.0	12.0		ug/L		120	54 - 140
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	80 - 121
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	80 - 120
Dibromochloromethane	10.0	11.9		ug/L		119	80 - 128
Dibromomethane	10.0	11.3		ug/L		113	80 - 120
Bromodichloromethane	10.0	12.2		ug/L		122	80 - 126
Dichlorodifluoromethane	10.0	10.1		ug/L		101	63 - 135
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120
m,p-Xylene	20.0	21.2		ug/L		106	80 - 120
Methylene Chloride	10.0	11.7		ug/L		117	71 - 125
Methyl tert-butyl ether	10.0	10.1		ug/L		101	70 - 121
Naphthalene	10.0	9.38		ug/L		94	80 - 125
o-Xylene	10.0	11.1		ug/L		111	80 - 120
Styrene	10.0	10.9		ug/L		109	80 - 120
t-Butanol	50.0	59.6		ug/L		119	77 - 124
Tetrachloroethene	10.0	11.6		ug/L		116	80 - 126
Toluene	10.0	11.3		ug/L		113	80 - 120
trans-1,2-Dichloroethene	10.0	11.4		ug/L		114	74 - 121
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	80 - 123
Trichloroethene	10.0	11.7		ug/L		117	80 - 120
Trichlorofluoromethane	10.0	11.9		ug/L		119	74 - 137
Vinyl acetate	10.0	10.6		ug/L		106	50 - 150
Vinyl chloride	10.0	11.7		ug/L		117	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.8		ug/L		108	80 - 120
2-Butanone (MEK)	10.0	6.78		ug/L		68	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.61		ug/L		96	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Lab Sample ID: LCSD 570-97365/5
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	10.6		ug/L		106	80 - 120	3	14

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

Lab Sample ID: LCSD 570-97365/5
Matrix: Water
Analysis Batch: 97365

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein	20.0	19.7		ug/L		99	61 - 144	15	30
1,1,1,2-Tetrachloroethane	10.0	12.3		ug/L		123	80 - 126	0	11
Acrylonitrile	10.0	11.4		ug/L		114	53 - 130	0	30
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125	1	14
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	80 - 120	2	16
1,1,2-Trichloroethane	10.0	11.5		ug/L		115	80 - 120	0	13
1,1-Dichloroethane	10.0	11.2		ug/L		112	77 - 120	1	14
1,1-Dichloroethene	10.0	10.3		ug/L		103	74 - 128	2	17
1,1-Dichloropropene	10.0	11.2		ug/L		112	79 - 125	2	14
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	10.7		ug/L		107	67 - 120	1	20
1,2-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	0	14
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123	0	10
1,2-Dichloropropane	10.0	11.4		ug/L		114	80 - 120	0	11
1,3-Dichlorobenzene	10.0	11.2		ug/L		112	80 - 120	2	15
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	2	13
1,4-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120	1	15
2,2-Dichloropropane	10.0	10.5		ug/L		105	77 - 139	3	16
2-Hexanone	10.0	9.55	J	ug/L		95	66 - 129	15	21
Acetone	10.0	9.44	J	ug/L		94	58 - 131	7	30
Benzene	10.0	10.7		ug/L		107	80 - 120	2	12
Bromoform	10.0	13.4		ug/L		134	70 - 141	3	15
Bromomethane	10.0	12.7		ug/L		127	50 - 150	5	22
Carbon disulfide	10.0	11.3		ug/L		113	65 - 136	2	17
Carbon tetrachloride	10.0	12.5		ug/L		125	75 - 142	1	15
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120	2	12
Bromochloromethane	10.0	11.5		ug/L		115	80 - 120	1	12
Chloroethane	10.0	11.7		ug/L		117	74 - 123	3	17
Chloroform	10.0	11.4		ug/L		114	80 - 120	1	12
Chloromethane	10.0	11.5		ug/L		115	54 - 140	4	19
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	80 - 121	0	13
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	80 - 120	1	12
Dibromochloromethane	10.0	11.8		ug/L		118	80 - 128	1	11
Dibromomethane	10.0	11.2		ug/L		112	80 - 120	1	11
Bromodichloromethane	10.0	12.3		ug/L		123	80 - 126	1	11
Dichlorodifluoromethane	10.0	9.76		ug/L		98	63 - 135	3	17
Ethylbenzene	10.0	10.5		ug/L		105	80 - 120	2	13
m,p-Xylene	20.0	20.7		ug/L		103	80 - 120	3	13
Methylene Chloride	10.0	11.5		ug/L		115	71 - 125	1	19
Methyl tert-butyl ether	10.0	10.3		ug/L		103	70 - 121	2	11
Naphthalene	10.0	9.67		ug/L		97	80 - 125	3	16
o-Xylene	10.0	11.0		ug/L		110	80 - 120	2	12
Styrene	10.0	10.7		ug/L		107	80 - 120	1	12
t-Butanol	50.0	52.7		ug/L		105	77 - 124	12	23
Tetrachloroethene	10.0	11.4		ug/L		114	80 - 126	2	15
Toluene	10.0	11.2		ug/L		112	80 - 120	1	13
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	74 - 121	1	14
trans-1,3-Dichloropropene	10.0	11.3		ug/L		113	80 - 123	1	13
Trichloroethene	10.0	11.8		ug/L		118	80 - 120	1	14

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

Lab Sample ID: LCSD 570-97365/5
Matrix: Water
Analysis Batch: 97365

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			10.0	11.6		ug/L		116	74 - 137	3	16
Vinyl acetate			10.0	9.03		ug/L		90	50 - 150	16	28
Vinyl chloride			10.0	11.2		ug/L		112	72 - 126	4	17
1,2-Dibromoethane (EDB)			10.0	10.8		ug/L		108	80 - 120	0	12
2-Butanone (MEK)			10.0	8.76		ug/L		88	50 - 127	25	26
4-Methyl-2-pentanone (MIBK)			10.0	9.55		ug/L		96	72 - 120	1	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-272125-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	75 - 125
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	75 - 125
Acrolein	ND		20.0	17.1		ug/L		86	80 - 120
Acrolein	ND		20.0	17.1		ug/L		86	80 - 120
1,1,1,2-Tetrachloroethane	ND		10.0	11.6		ug/L		116	75 - 127
1,1,1,2-Tetrachloroethane	ND		10.0	11.6		ug/L		116	75 - 127
Acrylonitrile	ND	F2	10.0	8.21		ug/L		82	68 - 134
Acrylonitrile	ND	F2	10.0	8.21		ug/L		82	68 - 134
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	72 - 132
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	72 - 132
1,1,2,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	75 - 132
1,1,2,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	75 - 132
1,1,2-Trichloroethane	ND		10.0	11.6		ug/L		116	75 - 125
1,1,2-Trichloroethane	ND		10.0	11.6		ug/L		116	75 - 125
1,1-Dichloroethane	ND		10.0	11.0		ug/L		110	68 - 128
1,1-Dichloroethane	ND		10.0	11.0		ug/L		110	68 - 128
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	66 - 126
1,1-Dichloroethene	ND		10.0	10.0		ug/L		100	66 - 126
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	74 - 134
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	74 - 134
1,2,4-Trichlorobenzene	ND		10.0	10.4		ug/L		104	75 - 125
1,2,4-Trichlorobenzene	ND		10.0	10.4		ug/L		104	75 - 125
1,2-Dibromo-3-Chloropropane	ND		10.0	12.3		ug/L		123	75 - 127
1,2-Dibromo-3-Chloropropane	ND		10.0	12.3		ug/L		123	75 - 127
1,2-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 125
1,2-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 125
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	75 - 127
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	75 - 127
1,2-Dichloropropane	0.17	J	10.0	11.6		ug/L		114	75 - 125
1,2-Dichloropropane	0.17	J	10.0	11.6		ug/L		114	75 - 125

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

Lab Sample ID: 440-272125-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	75 - 126
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	75 - 126
1,3-Dichloropropane	ND		10.0	11.4		ug/L		114	75 - 125
1,3-Dichloropropane	ND		10.0	11.4		ug/L		114	75 - 125
1,4-Dichlorobenzene	1.3		10.0	11.1		ug/L		99	75 - 125
1,4-Dichlorobenzene	1.3		10.0	11.1		ug/L		99	75 - 125
2,2-Dichloropropane	ND		10.0	12.0		ug/L		120	52 - 160
2,2-Dichloropropane	ND		10.0	12.0		ug/L		120	52 - 160
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122
Acetone	ND		10.0	15.5		ug/L		155	20 - 180
Acetone	ND		10.0	15.5		ug/L		155	20 - 180
Benzene	0.90		10.0	11.4		ug/L		105	75 - 125
Benzene	0.90		10.0	11.4		ug/L		105	75 - 125
Bromoform	ND	F1	10.0	12.8		ug/L		128	71 - 137
Bromoform	ND	F1	10.0	12.8		ug/L		128	71 - 137
Bromomethane	ND		10.0	9.12		ug/L		91	37 - 181
Bromomethane	ND		10.0	9.12		ug/L		91	37 - 181
Carbon disulfide	ND		10.0	10.8		ug/L		108	58 - 136
Carbon disulfide	ND		10.0	10.8		ug/L		108	58 - 136
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	69 - 135
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	69 - 135
Chlorobenzene	0.31	J	10.0	10.8		ug/L		105	75 - 125
Chlorobenzene	0.31	J	10.0	10.8		ug/L		105	75 - 125
Bromochloromethane	ND		10.0	11.6		ug/L		116	75 - 128
Bromochloromethane	ND		10.0	11.6		ug/L		116	75 - 128
Chloroethane	ND		10.0	13.8		ug/L		138	20 - 180
Chloroethane	ND		10.0	13.8		ug/L		138	20 - 180
Chloroform	ND		10.0	11.4		ug/L		114	75 - 129
Chloroform	ND		10.0	11.4		ug/L		114	75 - 129
Chloromethane	ND		10.0	10.5		ug/L		105	41 - 149
Chloromethane	ND		10.0	10.5		ug/L		105	41 - 149
cis-1,2-Dichloroethene	2.5		10.0	13.4		ug/L		109	75 - 130
cis-1,2-Dichloroethene	2.5		10.0	13.4		ug/L		109	75 - 130
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	75 - 128
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	75 - 128
Dibromochloromethane	ND		10.0	11.5		ug/L		115	75 - 125
Dibromochloromethane	ND		10.0	11.5		ug/L		115	75 - 125
Dibromomethane	ND		10.0	11.5		ug/L		115	75 - 129
Dibromomethane	ND		10.0	11.5		ug/L		115	75 - 129
Bromodichloromethane	ND	F1	10.0	12.0		ug/L		120	75 - 125
Bromodichloromethane	ND	F1	10.0	12.0		ug/L		120	75 - 125
Dichlorodifluoromethane	ND		10.0	6.75		ug/L		68	28 - 172
Dichlorodifluoromethane	ND		10.0	6.75		ug/L		68	28 - 172
Ethylbenzene	ND		10.0	9.62		ug/L		96	75 - 125
Ethylbenzene	ND		10.0	9.62		ug/L		96	75 - 125
m,p-Xylene	ND		20.0	19.1		ug/L		96	75 - 125
m,p-Xylene	ND		20.0	19.1		ug/L		96	75 - 125
Methylene Chloride	ND		10.0	11.6		ug/L		116	74 - 128

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

Lab Sample ID: 440-272125-9 MS
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		10.0	11.6		ug/L		116	74 - 128
Methyl tert-butyl ether	3.9		10.0	14.5		ug/L		107	71 - 131
Methyl tert-butyl ether	3.9		10.0	14.5		ug/L		107	71 - 131
Naphthalene	ND		10.0	10.5		ug/L		105	75 - 136
Naphthalene	ND		10.0	10.5		ug/L		105	75 - 136
o-Xylene	ND		10.0	10.4		ug/L		104	75 - 127
o-Xylene	ND		10.0	10.4		ug/L		104	75 - 127
Styrene	ND		10.0	10.3		ug/L		103	28 - 166
Styrene	ND		10.0	10.3		ug/L		103	28 - 166
t-Butanol	780	E	50.0	878	E 4	ug/L		200	20 - 180
t-Butanol	780	E	50.0	878	E 4	ug/L		200	20 - 180
Tetrachloroethene	ND		10.0	9.78		ug/L		98	58 - 124
Tetrachloroethene	ND		10.0	9.78		ug/L		98	58 - 124
Toluene	ND		10.0	10.7		ug/L		107	75 - 125
Toluene	ND		10.0	10.7		ug/L		107	75 - 125
trans-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	73 - 133
trans-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	73 - 133
trans-1,3-Dichloropropene	ND		10.0	11.0		ug/L		110	75 - 125
trans-1,3-Dichloropropene	ND		10.0	11.0		ug/L		110	75 - 125
Trichloroethene	0.25	J	10.0	10.9		ug/L		107	75 - 125
Trichloroethene	0.25	J	10.0	10.9		ug/L		107	75 - 125
Trichlorofluoromethane	ND		10.0	9.36		ug/L		94	68 - 134
Trichlorofluoromethane	ND		10.0	9.36		ug/L		94	68 - 134
Vinyl acetate	ND		10.0	11.6		ug/L		116	65 - 137
Vinyl acetate	ND		10.0	11.6		ug/L		116	65 - 137
Vinyl chloride	ND		10.0	10.2		ug/L		102	52 - 142
Vinyl chloride	ND		10.0	10.2		ug/L		102	52 - 142
1,2-Dibromoethane (EDB)	ND		10.0	11.1		ug/L		111	75 - 126
1,2-Dibromoethane (EDB)	ND		10.0	11.1		ug/L		111	75 - 126
2-Butanone (MEK)	ND		10.0	12.7		ug/L		127	20 - 180
2-Butanone (MEK)	ND		10.0	12.7		ug/L		127	20 - 180
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.6		ug/L		116	65 - 137
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.6		ug/L		116	65 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 127*
Dibromofluoromethane (Surr)	*107*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*

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

Lab Sample ID: 440-272125-9 MSD
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	75 - 125	1	20
1,2,3-Trichloropropane	ND		10.0	11.1		ug/L		111	75 - 125	1	20
Acrolein	ND		20.0	17.7		ug/L		89	80 - 120	3	20
Acrolein	ND		20.0	17.7		ug/L		89	80 - 120	3	20
1,1,1,2-Tetrachloroethane	ND		10.0	12.6		ug/L		126	75 - 127	8	20
1,1,1,2-Tetrachloroethane	ND		10.0	12.6		ug/L		126	75 - 127	8	20
Acrylonitrile	ND	F2	10.0	12.8	F2	ug/L		128	68 - 134	43	20
Acrylonitrile	ND	F2	10.0	12.8	F2	ug/L		128	68 - 134	43	20
1,1,1-Trichloroethane	ND		10.0	11.5		ug/L		115	72 - 132	6	20
1,1,1-Trichloroethane	ND		10.0	11.5		ug/L		115	72 - 132	6	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.0		ug/L		120	75 - 132	5	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.0		ug/L		120	75 - 132	5	20
1,1,2-Trichloroethane	ND		10.0	12.1		ug/L		121	75 - 125	4	20
1,1,2-Trichloroethane	ND		10.0	12.1		ug/L		121	75 - 125	4	20
1,1-Dichloroethane	ND		10.0	11.7		ug/L		117	68 - 128	6	20
1,1-Dichloroethane	ND		10.0	11.7		ug/L		117	68 - 128	6	20
1,1-Dichloroethene	ND		10.0	9.97		ug/L		100	66 - 126	0	20
1,1-Dichloroethene	ND		10.0	9.97		ug/L		100	66 - 126	0	20
1,1-Dichloropropene	ND		10.0	11.6		ug/L		116	74 - 134	10	20
1,1-Dichloropropene	ND		10.0	11.6		ug/L		116	74 - 134	10	20
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	75 - 125	7	20
1,2,4-Trichlorobenzene	ND		10.0	11.2		ug/L		112	75 - 125	7	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.5		ug/L		115	75 - 127	7	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.5		ug/L		115	75 - 127	7	20
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	75 - 125	3	20
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	75 - 125	3	20
1,2-Dichloroethane	ND		10.0	11.2		ug/L		112	75 - 127	2	20
1,2-Dichloroethane	ND		10.0	11.2		ug/L		112	75 - 127	2	20
1,2-Dichloropropane	0.17	J	10.0	12.3		ug/L		122	75 - 125	6	20
1,2-Dichloropropane	0.17	J	10.0	12.3		ug/L		122	75 - 125	6	20
1,3-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 126	4	20
1,3-Dichlorobenzene	ND		10.0	10.5		ug/L		105	75 - 126	4	20
1,3-Dichloropropane	ND		10.0	11.9		ug/L		119	75 - 125	4	20
1,3-Dichloropropane	ND		10.0	11.9		ug/L		119	75 - 125	4	20
1,4-Dichlorobenzene	1.3		10.0	11.8		ug/L		105	75 - 125	6	20
1,4-Dichlorobenzene	1.3		10.0	11.8		ug/L		105	75 - 125	6	20
2,2-Dichloropropane	ND		10.0	12.8		ug/L		128	52 - 160	7	20
2,2-Dichloropropane	ND		10.0	12.8		ug/L		128	52 - 160	7	20
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122	0	20
2-Hexanone	ND		10.0	10.8		ug/L		108	74 - 122	0	20
Acetone	ND		10.0	12.8		ug/L		128	20 - 180	19	52
Acetone	ND		10.0	12.8		ug/L		128	20 - 180	19	52
Benzene	0.90		10.0	12.0		ug/L		111	75 - 125	5	20
Benzene	0.90		10.0	12.0		ug/L		111	75 - 125	5	20
Bromoform	ND	F1	10.0	13.8	F1	ug/L		138	71 - 137	7	20
Bromoform	ND	F1	10.0	13.8	F1	ug/L		138	71 - 137	7	20
Bromomethane	ND		10.0	9.51		ug/L		95	37 - 181	4	22
Bromomethane	ND		10.0	9.51		ug/L		95	37 - 181	4	22

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

Lab Sample ID: 440-272125-9 MSD
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		10.0	11.4		ug/L		114	58 - 136	6	20
Carbon disulfide	ND		10.0	11.4		ug/L		114	58 - 136	6	20
Carbon tetrachloride	ND		10.0	11.9		ug/L		119	69 - 135	7	20
Carbon tetrachloride	ND		10.0	11.9		ug/L		119	69 - 135	7	20
Chlorobenzene	0.31	J	10.0	11.4		ug/L		110	75 - 125	5	20
Chlorobenzene	0.31	J	10.0	11.4		ug/L		110	75 - 125	5	20
Bromochloromethane	ND		10.0	12.3		ug/L		123	75 - 128	6	20
Bromochloromethane	ND		10.0	12.3		ug/L		123	75 - 128	6	20
Chloroethane	ND		10.0	14.1		ug/L		141	20 - 180	2	20
Chloroethane	ND		10.0	14.1		ug/L		141	20 - 180	2	20
Chloroform	ND		10.0	12.0		ug/L		120	75 - 129	5	20
Chloroform	ND		10.0	12.0		ug/L		120	75 - 129	5	20
Chloromethane	ND		10.0	11.0		ug/L		110	41 - 149	4	20
Chloromethane	ND		10.0	11.0		ug/L		110	41 - 149	4	20
cis-1,2-Dichloroethene	2.5		10.0	14.2		ug/L		118	75 - 130	6	20
cis-1,2-Dichloroethene	2.5		10.0	14.2		ug/L		118	75 - 130	6	20
cis-1,3-Dichloropropene	ND		10.0	11.1		ug/L		111	75 - 128	4	20
cis-1,3-Dichloropropene	ND		10.0	11.1		ug/L		111	75 - 128	4	20
Dibromochloromethane	ND		10.0	12.4		ug/L		124	75 - 125	8	20
Dibromochloromethane	ND		10.0	12.4		ug/L		124	75 - 125	8	20
Dibromomethane	ND		10.0	11.8		ug/L		118	75 - 129	3	20
Dibromomethane	ND		10.0	11.8		ug/L		118	75 - 129	3	20
Bromodichloromethane	ND	F1	10.0	12.8	F1	ug/L		128	75 - 125	6	20
Bromodichloromethane	ND	F1	10.0	12.8	F1	ug/L		128	75 - 125	6	20
Dichlorodifluoromethane	ND		10.0	6.93		ug/L		69	28 - 172	3	20
Dichlorodifluoromethane	ND		10.0	6.93		ug/L		69	28 - 172	3	20
Ethylbenzene	ND		10.0	10.1		ug/L		101	75 - 125	5	20
Ethylbenzene	ND		10.0	10.1		ug/L		101	75 - 125	5	20
m,p-Xylene	ND		20.0	20.0		ug/L		100	75 - 125	4	20
m,p-Xylene	ND		20.0	20.0		ug/L		100	75 - 125	4	20
Methylene Chloride	ND		10.0	12.5		ug/L		125	74 - 128	7	20
Methylene Chloride	ND		10.0	12.5		ug/L		125	74 - 128	7	20
Methyl tert-butyl ether	3.9		10.0	15.4		ug/L		115	71 - 131	6	20
Methyl tert-butyl ether	3.9		10.0	15.4		ug/L		115	71 - 131	6	20
Naphthalene	ND		10.0	11.3		ug/L		113	75 - 136	7	20
Naphthalene	ND		10.0	11.3		ug/L		113	75 - 136	7	20
o-Xylene	ND		10.0	10.8		ug/L		108	75 - 127	4	20
o-Xylene	ND		10.0	10.8		ug/L		108	75 - 127	4	20
Styrene	ND		10.0	10.8		ug/L		108	28 - 166	5	20
Styrene	ND		10.0	10.8		ug/L		108	28 - 166	5	20
t-Butanol	780	E	50.0	901	E 4	ug/L		245	20 - 180	3	40
t-Butanol	780	E	50.0	901	E 4	ug/L		245	20 - 180	3	40
Tetrachloroethene	ND		10.0	10.3		ug/L		103	58 - 124	5	20
Tetrachloroethene	ND		10.0	10.3		ug/L		103	58 - 124	5	20
Toluene	ND		10.0	11.1		ug/L		111	75 - 125	4	20
Toluene	ND		10.0	11.1		ug/L		111	75 - 125	4	20
trans-1,2-Dichloroethene	ND		10.0	11.7		ug/L		117	73 - 133	9	20
trans-1,2-Dichloroethene	ND		10.0	11.7		ug/L		117	73 - 133	9	20
trans-1,3-Dichloropropene	ND		10.0	11.5		ug/L		115	75 - 125	5	20

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

Lab Sample ID: 440-272125-9 MSD
Matrix: Water
Analysis Batch: 97365

Client Sample ID: LY-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	ND		10.0	11.5		ug/L		115	75 - 125	5	20
Trichloroethene	0.25	J	10.0	11.4		ug/L		112	75 - 125	5	20
Trichloroethene	0.25	J	10.0	11.4		ug/L		112	75 - 125	5	20
Trichlorofluoromethane	ND		10.0	9.70		ug/L		97	68 - 134	4	20
Trichlorofluoromethane	ND		10.0	9.70		ug/L		97	68 - 134	4	20
Vinyl acetate	ND		10.0	12.8		ug/L		128	65 - 137	10	20
Vinyl acetate	ND		10.0	12.8		ug/L		128	65 - 137	10	20
Vinyl chloride	ND		10.0	10.9		ug/L		109	52 - 142	7	20
Vinyl chloride	ND		10.0	10.9		ug/L		109	52 - 142	7	20
1,2-Dibromoethane (EDB)	ND		10.0	11.3		ug/L		113	75 - 126	2	20
1,2-Dibromoethane (EDB)	ND		10.0	11.3		ug/L		113	75 - 126	2	20
2-Butanone (MEK)	ND		10.0	11.5		ug/L		115	20 - 180	10	40
2-Butanone (MEK)	ND		10.0	11.5		ug/L		115	20 - 180	10	40
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.7		ug/L		117	65 - 137	1	20
4-Methyl-2-pentanone (MIBK)	ND		10.0	11.7		ug/L		117	65 - 137	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 17:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 17:10	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 17:10	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 17:10	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 17:10	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 17:10	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 17:10	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 17:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 17:10	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 17:10	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 17:10	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 17:10	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 17:10	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 17:10	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 17:10	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 17:10	1

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

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 17:10	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 17:10	1
Acetone	ND		10	4.0	ug/L			09/26/20 17:10	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 17:10	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 17:10	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 17:10	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 17:10	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 17:10	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 17:10	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 17:10	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 17:10	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 17:10	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 17:10	1
Chloroform	0.198	J	0.50	0.062	ug/L			09/26/20 17:10	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 17:10	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 17:10	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 17:10	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 17:10	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 17:10	1
Bromodichloromethane	0.134	J	0.50	0.053	ug/L			09/26/20 17:10	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 17:10	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 17:10	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 17:10	1
Iodomethane	ND		25	14	ug/L			09/26/20 17:10	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 17:10	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 17:10	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 17:10	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 17:10	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 17:10	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 17:10	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 17:10	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 17:10	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 17:10	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 17:10	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 17:10	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 17:10	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 17:10	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 17:10	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 17:10	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 17:10	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 17:10	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 17:10	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 17:10	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 17:10	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 17:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 17:10	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 17:10	1

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

Lab Sample ID: MB 570-97477/13
Matrix: Water
Analysis Batch: 97477

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/26/20 17:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		09/26/20 17:10	1
4-Bromofluorobenzene (Surr)	92		68 - 120		09/26/20 17:10	1
Dibromofluoromethane (Surr)	105		80 - 127		09/26/20 17:10	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 128		09/26/20 17:10	1

Lab Sample ID: LCS 570-97477/9
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120
1,1,1,2-Tetrachloroethane	10.0	12.2		ug/L		122	80 - 126
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	80 - 120
1,1,2-Trichloroethane	10.0	11.3		ug/L		113	80 - 120
1,1-Dichloroethane	10.0	11.7		ug/L		117	77 - 120
1,1-Dichloroethene	10.0	10.5		ug/L		105	74 - 128
1,1-Dichloropropene	10.0	11.2		ug/L		112	79 - 125
1,2,4-Trichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	67 - 120
1,2-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 123
1,2-Dichloropropane	10.0	10.9		ug/L		109	80 - 120
1,3-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	11.2		ug/L		112	77 - 139
2-Hexanone	10.0	9.65	J	ug/L		96	66 - 129
Acetone	10.0	10.5		ug/L		105	58 - 131
Benzene	10.0	10.7		ug/L		107	80 - 120
Bromoform	10.0	12.9		ug/L		129	70 - 141
Bromomethane	10.0	11.4		ug/L		114	50 - 150
Carbon disulfide	10.0	11.4		ug/L		114	65 - 136
Carbon tetrachloride	10.0	12.3		ug/L		123	75 - 142
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120
Bromochloromethane	10.0	11.5		ug/L		115	80 - 120
Chloroethane	10.0	11.8		ug/L		118	74 - 123
Chloroform	10.0	11.3		ug/L		113	80 - 120
Chloromethane	10.0	11.4		ug/L		114	54 - 140
cis-1,2-Dichloroethene	10.0	11.2		ug/L		112	80 - 121
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	80 - 120
Dibromochloromethane	10.0	11.7		ug/L		117	80 - 128
Dibromomethane	10.0	10.7		ug/L		107	80 - 120
Bromodichloromethane	10.0	11.7		ug/L		117	80 - 126
Dichlorodifluoromethane	10.0	9.65		ug/L		96	63 - 135

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

Lab Sample ID: LCS 570-97477/9
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
m,p-Xylene	20.0	21.2		ug/L		106	80 - 120
Methylene Chloride	10.0	11.8		ug/L		118	71 - 125
Methyl tert-butyl ether	10.0	10.9		ug/L		109	70 - 121
Naphthalene	10.0	9.63		ug/L		96	80 - 125
o-Xylene	10.0	11.0		ug/L		110	80 - 120
Styrene	10.0	11.0		ug/L		110	80 - 120
t-Butanol	50.0	44.5		ug/L		89	77 - 124
Tetrachloroethene	10.0	11.3		ug/L		113	80 - 126
Toluene	10.0	11.2		ug/L		112	80 - 120
trans-1,2-Dichloroethene	10.0	11.7		ug/L		117	74 - 121
trans-1,3-Dichloropropene	10.0	11.2		ug/L		112	80 - 123
Trichloroethene	10.0	11.1		ug/L		111	80 - 120
Trichlorofluoromethane	10.0	9.86		ug/L		99	74 - 137
Vinyl acetate	10.0	10.2		ug/L		102	50 - 150
Vinyl chloride	10.0	10.8		ug/L		108	72 - 126
1,2-Dibromoethane (EDB)	10.0	11.0		ug/L		110	80 - 120
2-Butanone (MEK)	10.0	8.06		ug/L		81	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.44		ug/L		94	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

Lab Sample ID: LCSD 570-97477/10
Matrix: Water
Analysis Batch: 97477

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	10.9		ug/L		109	80 - 120	0	14
1,1,1,2-Tetrachloroethane	10.0	12.1		ug/L		121	80 - 126	1	11
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	80 - 125	0	14
1,1,2,2-Tetrachloroethane	10.0	11.1		ug/L		111	80 - 120	1	16
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	80 - 120	2	13
1,1-Dichloroethane	10.0	11.4		ug/L		114	77 - 120	3	14
1,1-Dichloroethene	10.0	10.2		ug/L		102	74 - 128	3	17
1,1-Dichloropropene	10.0	11.1		ug/L		111	79 - 125	1	14
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	11.1		ug/L		111	67 - 120	3	20
1,2-Dichlorobenzene	10.0	11.0		ug/L		110	80 - 120	1	14
1,2-Dichloroethane	10.0	10.6		ug/L		106	80 - 123	3	10
1,2-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	2	11
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120	0	15
1,3-Dichloropropane	10.0	11.2		ug/L		112	80 - 120	0	13
1,4-Dichlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	15
2,2-Dichloropropane	10.0	11.0		ug/L		110	77 - 139	2	16

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

Lab Sample ID: LCSD 570-97477/10
Matrix: Water
Analysis Batch: 97477

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone			10.0	9.86	J	ug/L		99	66 - 129	2	21
Acetone			10.0	10.7		ug/L		107	58 - 131	2	30
Benzene			10.0	10.7		ug/L		107	80 - 120	0	12
Bromoform			10.0	12.9		ug/L		129	70 - 141	0	15
Bromomethane			10.0	11.1		ug/L		111	50 - 150	3	22
Carbon disulfide			10.0	11.3		ug/L		113	65 - 136	1	17
Carbon tetrachloride			10.0	12.1		ug/L		121	75 - 142	2	15
Chlorobenzene			10.0	10.9		ug/L		109	80 - 120	2	12
Bromochloromethane			10.0	11.4		ug/L		114	80 - 120	1	12
Chloroethane			10.0	11.6		ug/L		116	74 - 123	1	17
Chloroform			10.0	11.3		ug/L		113	80 - 120	0	12
Chloromethane			10.0	11.4		ug/L		114	54 - 140	0	19
cis-1,2-Dichloroethene			10.0	11.2		ug/L		112	80 - 121	0	13
cis-1,3-Dichloropropene			10.0	11.3		ug/L		113	80 - 120	1	12
Dibromochloromethane			10.0	11.7		ug/L		117	80 - 128	0	11
Dibromomethane			10.0	11.0		ug/L		110	80 - 120	2	11
Bromodichloromethane			10.0	11.9		ug/L		119	80 - 126	2	11
Dichlorodifluoromethane			10.0	9.60		ug/L		96	63 - 135	1	17
Ethylbenzene			10.0	10.5		ug/L		105	80 - 120	1	13
m,p-Xylene			20.0	20.9		ug/L		105	80 - 120	2	13
Methylene Chloride			10.0	12.0		ug/L		120	71 - 125	1	19
Methyl tert-butyl ether			10.0	10.8		ug/L		108	70 - 121	0	11
Naphthalene			10.0	9.62		ug/L		96	80 - 125	0	16
o-Xylene			10.0	11.0		ug/L		110	80 - 120	1	12
Styrene			10.0	10.9		ug/L		109	80 - 120	1	12
t-Butanol			50.0	55.4		ug/L		111	77 - 124	22	23
Tetrachloroethene			10.0	11.1		ug/L		111	80 - 126	2	15
Toluene			10.0	11.2		ug/L		112	80 - 120	1	13
trans-1,2-Dichloroethene			10.0	11.7		ug/L		117	74 - 121	0	14
trans-1,3-Dichloropropene			10.0	11.1		ug/L		111	80 - 123	1	13
Trichloroethene			10.0	11.2		ug/L		112	80 - 120	1	14
Trichlorofluoromethane			10.0	9.76		ug/L		98	74 - 137	1	16
Vinyl acetate			10.0	9.93		ug/L		99	50 - 150	3	28
Vinyl chloride			10.0	10.8		ug/L		108	72 - 126	0	17
1,2-Dibromoethane (EDB)			10.0	11.1		ug/L		111	80 - 120	1	12
2-Butanone (MEK)			10.0	8.08		ug/L		81	50 - 127	0	26
4-Methyl-2-pentanone (MIBK)			10.0	9.84		ug/L		98	72 - 120	4	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*68 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

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

Lab Sample ID: MB 570-99335/7
Matrix: Water
Analysis Batch: 99335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			10/04/20 14:44	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/04/20 14:44	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			10/04/20 14:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			10/04/20 14:44	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			10/04/20 14:44	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			10/04/20 14:44	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/04/20 14:44	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			10/04/20 14:44	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			10/04/20 14:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			10/04/20 14:44	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			10/04/20 14:44	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			10/04/20 14:44	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			10/04/20 14:44	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			10/04/20 14:44	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			10/04/20 14:44	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			10/04/20 14:44	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			10/04/20 14:44	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			10/04/20 14:44	1
2-Hexanone	ND		10	0.50	ug/L			10/04/20 14:44	1
Acetone	ND		10	4.0	ug/L			10/04/20 14:44	1
Acetonitrile	ND		10	2.0	ug/L			10/04/20 14:44	1
Benzene	ND		0.50	0.072	ug/L			10/04/20 14:44	1
Allyl chloride	ND		2.0	0.55	ug/L			10/04/20 14:44	1
Bromoform	ND		0.50	0.096	ug/L			10/04/20 14:44	1
Bromomethane	ND		2.0	0.99	ug/L			10/04/20 14:44	1
Carbon disulfide	ND		10	0.39	ug/L			10/04/20 14:44	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			10/04/20 14:44	1
Chlorobenzene	ND		0.50	0.088	ug/L			10/04/20 14:44	1
Bromochloromethane	ND		1.0	0.082	ug/L			10/04/20 14:44	1
Chloroethane	ND		0.50	0.12	ug/L			10/04/20 14:44	1
Chloroform	ND		0.50	0.062	ug/L			10/04/20 14:44	1
Chloromethane	ND		5.0	2.0	ug/L			10/04/20 14:44	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/04/20 14:44	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			10/04/20 14:44	1
Dibromochloromethane	ND		0.50	0.064	ug/L			10/04/20 14:44	1
Dibromomethane	ND		0.50	0.13	ug/L			10/04/20 14:44	1
Bromodichloromethane	ND		0.50	0.053	ug/L			10/04/20 14:44	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			10/04/20 14:44	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			10/04/20 14:44	1
Ethylbenzene	ND		0.50	0.087	ug/L			10/04/20 14:44	1
Iodomethane	ND		25	14	ug/L			10/04/20 14:44	1
Isobutyl alcohol	ND		10	1.9	ug/L			10/04/20 14:44	1
m,p-Xylene	ND		1.0	0.15	ug/L			10/04/20 14:44	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			10/04/20 14:44	1
Methyl methacrylate	ND		2.0	0.48	ug/L			10/04/20 14:44	1
Methylene Chloride	ND		1.0	0.043	ug/L			10/04/20 14:44	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			10/04/20 14:44	1
Naphthalene	ND		1.0	0.097	ug/L			10/04/20 14:44	1

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

Lab Sample ID: MB 570-99335/7
Matrix: Water
Analysis Batch: 99335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.086	ug/L			10/04/20 14:44	1
Propionitrile	ND		5.0	1.0	ug/L			10/04/20 14:44	1
Styrene	ND		0.50	0.059	ug/L			10/04/20 14:44	1
t-Butanol	ND		10	4.0	ug/L			10/04/20 14:44	1
Tetrachloroethene	ND		0.50	0.24	ug/L			10/04/20 14:44	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			10/04/20 14:44	1
Toluene	ND		0.50	0.093	ug/L			10/04/20 14:44	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			10/04/20 14:44	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			10/04/20 14:44	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			10/04/20 14:44	1
Trichloroethene	ND		0.50	0.10	ug/L			10/04/20 14:44	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			10/04/20 14:44	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/04/20 14:44	1
Vinyl chloride	ND		0.50	0.078	ug/L			10/04/20 14:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			10/04/20 14:44	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			10/04/20 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			10/04/20 14:44	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/04/20 14:44*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/04/20 14:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*10/04/20 14:44*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 127*		*10/04/20 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*		*10/04/20 14:44*	*1*

Lab Sample ID: LCS 570-99335/3
Matrix: Water
Analysis Batch: 99335

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	11.6		ug/L		116	80 - 120
1,1,1,2-Tetrachloroethane	10.0	11.5		ug/L		115	80 - 126
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	80 - 125
1,1,2,2-Tetrachloroethane	10.0	10.7		ug/L		107	80 - 120
1,1,2-Trichloroethane	10.0	11.1		ug/L		111	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	77 - 120
1,1-Dichloroethene	10.0	10.4		ug/L		104	74 - 128
1,1-Dichloropropene	10.0	10.6		ug/L		106	79 - 125
1,2,4-Trichlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.5		ug/L		105	67 - 120
1,2-Dichlorobenzene	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	11.7		ug/L		117	80 - 123
1,2-Dichloropropane	10.0	10.3		ug/L		103	80 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,3-Dichloropropane	10.0	11.5		ug/L		115	80 - 120
1,4-Dichlorobenzene	10.0	9.98		ug/L		100	80 - 120

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

Lab Sample ID: LCS 570-99335/3
Matrix: Water
Analysis Batch: 99335

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	10.0	11.8		ug/L		118	77 - 139
2-Hexanone	10.0	11.0		ug/L		110	66 - 129
Acetone	10.0	8.87	J	ug/L		89	58 - 131
Benzene	10.0	11.0		ug/L		110	80 - 120
Bromoform	10.0	11.4		ug/L		114	70 - 141
Bromomethane	10.0	9.44		ug/L		94	50 - 150
Carbon disulfide	10.0	9.91	J	ug/L		99	65 - 136
Carbon tetrachloride	10.0	10.7		ug/L		107	75 - 142
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120
Bromochloromethane	10.0	10.3		ug/L		103	80 - 120
Chloroethane	10.0	8.78		ug/L		88	74 - 123
Chloroform	10.0	10.7		ug/L		107	80 - 120
Chloromethane	10.0	9.31		ug/L		93	54 - 140
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 121
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	80 - 120
Dibromochloromethane	10.0	11.3		ug/L		113	80 - 128
Dibromomethane	10.0	11.3		ug/L		113	80 - 120
Bromodichloromethane	10.0	11.4		ug/L		114	80 - 126
Dichlorodifluoromethane	10.0	9.69		ug/L		97	63 - 135
Ethylbenzene	10.0	11.5		ug/L		115	80 - 120
m,p-Xylene	20.0	23.4		ug/L		117	80 - 120
Methylene Chloride	10.0	9.40		ug/L		94	71 - 125
Methyl tert-butyl ether	10.0	10.6		ug/L		106	70 - 121
Naphthalene	10.0	9.80		ug/L		98	80 - 125
o-Xylene	10.0	11.6		ug/L		116	80 - 120
Styrene	10.0	11.6		ug/L		116	80 - 120
t-Butanol	50.0	50.7		ug/L		101	77 - 124
Tetrachloroethene	10.0	11.2		ug/L		112	80 - 126
Toluene	10.0	10.9		ug/L		109	80 - 120
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 121
trans-1,3-Dichloropropene	10.0	11.8		ug/L		118	80 - 123
Trichloroethene	10.0	10.5		ug/L		105	80 - 120
Trichlorofluoromethane	10.0	9.37		ug/L		94	74 - 137
Vinyl acetate	10.0	10.3		ug/L		103	50 - 150
Vinyl chloride	10.0	8.66		ug/L		87	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.6		ug/L		106	80 - 120
2-Butanone (MEK)	10.0	9.48		ug/L		95	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	10.1		ug/L		101	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*68 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*

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

Lab Sample ID: LCSD 570-99335/4
Matrix: Water
Analysis Batch: 99335

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			10.0	10.7		ug/L		107	80 - 120	9	14
1,1,1,2-Tetrachloroethane			10.0	11.7		ug/L		117	80 - 126	1	11
1,1,1-Trichloroethane			10.0	10.6		ug/L		106	80 - 125	2	14
1,1,2,2-Tetrachloroethane			10.0	10.4		ug/L		104	80 - 120	3	16
1,1,2-Trichloroethane			10.0	11.0		ug/L		110	80 - 120	1	13
1,1-Dichloroethane			10.0	9.89		ug/L		99	77 - 120	3	14
1,1-Dichloroethene			10.0	10.0		ug/L		100	74 - 128	3	17
1,1-Dichloropropene			10.0	10.4		ug/L		104	79 - 125	1	14
1,2,4-Trichlorobenzene			10.0	10.6		ug/L		106	80 - 120	4	16
1,2-Dibromo-3-Chloropropane			10.0	10.5		ug/L		105	67 - 120	0	20
1,2-Dichlorobenzene			10.0	9.83		ug/L		98	80 - 120	3	14
1,2-Dichloroethane			10.0	11.2		ug/L		112	80 - 123	4	10
1,2-Dichloropropane			10.0	10.1		ug/L		101	80 - 120	2	11
1,3-Dichlorobenzene			10.0	9.85		ug/L		98	80 - 120	5	15
1,3-Dichloropropane			10.0	11.1		ug/L		111	80 - 120	3	13
1,4-Dichlorobenzene			10.0	9.80		ug/L		98	80 - 120	2	15
2,2-Dichloropropane			10.0	11.3		ug/L		113	77 - 139	5	16
2-Hexanone			10.0	9.35	J	ug/L		93	66 - 129	16	21
Acetone			10.0	8.46	J	ug/L		85	58 - 131	5	30
Benzene			10.0	10.6		ug/L		106	80 - 120	3	12
Bromoform			10.0	11.6		ug/L		116	70 - 141	1	15
Bromomethane			10.0	8.29		ug/L		83	50 - 150	13	22
Carbon disulfide			10.0	9.69	J	ug/L		97	65 - 136	2	17
Carbon tetrachloride			10.0	10.7		ug/L		107	75 - 142	1	15
Chlorobenzene			10.0	10.7		ug/L		107	80 - 120	2	12
Bromochloromethane			10.0	10.2		ug/L		102	80 - 120	1	12
Chloroethane			10.0	8.45		ug/L		85	74 - 123	4	17
Chloroform			10.0	10.3		ug/L		103	80 - 120	4	12
Chloromethane			10.0	9.04		ug/L		90	54 - 140	3	19
cis-1,2-Dichloroethene			10.0	9.96		ug/L		100	80 - 121	2	13
cis-1,3-Dichloropropene			10.0	11.3		ug/L		113	80 - 120	1	12
Dibromochloromethane			10.0	11.1		ug/L		111	80 - 128	2	11
Dibromomethane			10.0	11.0		ug/L		110	80 - 120	3	11
Bromodichloromethane			10.0	11.0		ug/L		110	80 - 126	4	11
Dichlorodifluoromethane			10.0	9.33		ug/L		93	63 - 135	4	17
Ethylbenzene			10.0	11.1		ug/L		111	80 - 120	3	13
m,p-Xylene			20.0	22.6		ug/L		113	80 - 120	3	13
Methylene Chloride			10.0	10.6		ug/L		106	71 - 125	12	19
Methyl tert-butyl ether			10.0	10.5		ug/L		105	70 - 121	0	11
Naphthalene			10.0	11.2		ug/L		112	80 - 125	14	16
o-Xylene			10.0	11.3		ug/L		113	80 - 120	2	12
Styrene			10.0	11.3		ug/L		113	80 - 120	2	12
t-Butanol			50.0	46.4		ug/L		93	77 - 124	9	23
Tetrachloroethene			10.0	10.6		ug/L		106	80 - 126	5	15
Toluene			10.0	10.6		ug/L		106	80 - 120	3	13
trans-1,2-Dichloroethene			10.0	10.3		ug/L		103	74 - 121	0	14
trans-1,3-Dichloropropene			10.0	11.6		ug/L		116	80 - 123	2	13
Trichloroethene			10.0	10.5		ug/L		105	80 - 120	1	14

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

Lab Sample ID: LCSD 570-99335/4
Matrix: Water
Analysis Batch: 99335

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane			10.0	9.25		ug/L		92	74 - 137	1	16
Vinyl acetate			10.0	9.79		ug/L		98	50 - 150	5	28
Vinyl chloride			10.0	8.49		ug/L		85	72 - 126	2	17
1,2-Dibromoethane (EDB)			10.0	10.5		ug/L		105	80 - 120	1	12
2-Butanone (MEK)			10.0	8.39		ug/L		84	50 - 127	12	26
4-Methyl-2-pentanone (MIBK)			10.0	9.48		ug/L		95	72 - 120	6	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*68 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-97125/1-A
Matrix: Water
Analysis Batch: 97341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:17	09/26/20 04:21	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*51*		*15 - 150*	*09/25/20 07:17*	*09/26/20 04:21*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*120*		*46 - 128*	*09/25/20 07:17*	*09/26/20 04:21*	*1*

Lab Sample ID: LCS 570-97125/2-A
Matrix: Water
Analysis Batch: 97268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			20.0	17.9		ug/L		89	57 - 136

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*43*		*15 - 150*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*95*		*46 - 128*

Lab Sample ID: LCSD 570-97125/3-A
Matrix: Water
Analysis Batch: 97268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	18.1		ug/L		90	57 - 136	1	20

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	44		15 - 150

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	108		46 - 128

Lab Sample ID: 440-272125-1 MS
Matrix: Water
Analysis Batch: 97268

Client Sample ID: DW-2
Prep Type: Total/NA
Prep Batch: 97125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		20.0	18.9		ug/L		95	45 - 139

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	50		15 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	101		46 - 128

Lab Sample ID: 440-272125-1 MSD
Matrix: Water
Analysis Batch: 97268

Client Sample ID: DW-2
Prep Type: Total/NA
Prep Batch: 97125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		20.0	18.9		ug/L		94	45 - 139	0	17

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	46		15 - 150

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	92		46 - 128

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-625535/6
Matrix: Water
Analysis Batch: 625535

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			09/24/20 11:10	1

Lab Sample ID: LCS 440-625535/5
Matrix: Water
Analysis Batch: 625535

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.65		mg/L		93	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-272229-B-1 MS
Matrix: Water
Analysis Batch: 625535

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100		100	197		mg/L		97	80 - 120

Lab Sample ID: 440-272229-B-1 MSD
Matrix: Water
Analysis Batch: 625535

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100		100	199		mg/L		99	80 - 120	1	20

Lab Sample ID: 440-272250-A-7 MS
Matrix: Water
Analysis Batch: 625535

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	170	E	5.00	172	E 4	mg/L		104	80 - 120

Lab Sample ID: 440-272250-A-7 MSD
Matrix: Water
Analysis Batch: 625535

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	170	E	5.00	172	E 4	mg/L		107	80 - 120	0	20

Lab Sample ID: MB 440-625700/6
Matrix: Water
Analysis Batch: 625700

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			09/25/20 10:10	1

Lab Sample ID: LCS 440-625700/5
Matrix: Water
Analysis Batch: 625700

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.69		mg/L		94	90 - 110

Lab Sample ID: 440-272125-7 MS
Matrix: Water
Analysis Batch: 625700

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	110		250	361		mg/L		102	80 - 120

Lab Sample ID: 440-272125-7 MSD
Matrix: Water
Analysis Batch: 625700

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	110		250	361		mg/L		102	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-625927/1-A
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 10:17	1

Lab Sample ID: LCS 440-625927/2-A
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.98		mg/L		100	80 - 120

Lab Sample ID: 440-272255-E-1-C MS
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	27	F1	10.0	42.1	F1	mg/L		148	75 - 125

Lab Sample ID: 440-272255-E-1-D MSD
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	27	F1	10.0	40.1	F1	mg/L		128	75 - 125	5	20

Lab Sample ID: MB 440-626109/1-A
Matrix: Water
Analysis Batch: 626249

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 626109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		09/29/20 14:36	09/30/20 13:19	1

Lab Sample ID: LCS 440-626109/2-A
Matrix: Water
Analysis Batch: 626249

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 626109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: 440-272125-8 MS
Matrix: Water
Analysis Batch: 626249

Client Sample ID: Extraction Trench
Prep Type: Total Recoverable
Prep Batch: 626109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	75		10.0	89.4	4	mg/L		146	75 - 125

Lab Sample ID: 440-272125-8 MSD
Matrix: Water
Analysis Batch: 626249

Client Sample ID: Extraction Trench
Prep Type: Total Recoverable
Prep Batch: 626109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	75		10.0	88.6	4	mg/L		138	75 - 125	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-625470/10
Matrix: Water
Analysis Batch: 625470

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			09/23/20 13:30	1

Lab Sample ID: LCS 440-625470/11
Matrix: Water
Analysis Batch: 625470

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.09		mg/L		102	90 - 110

Lab Sample ID: MRL 440-625470/9
Matrix: Water
Analysis Batch: 625470

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.179	J	mg/L		90	50 - 150

Lab Sample ID: 440-272084-D-2 MS
Matrix: Water
Analysis Batch: 625470

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	ND		5.00	5.06		mg/L		101	90 - 110

Lab Sample ID: 440-272084-D-2 MSD
Matrix: Water
Analysis Batch: 625470

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	ND		5.00	5.02		mg/L		100	90 - 110	1	15

Lab Sample ID: MB 440-625754/10
Matrix: Water
Analysis Batch: 625754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			09/25/20 10:48	1

Lab Sample ID: LCS 440-625754/11
Matrix: Water
Analysis Batch: 625754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.03		mg/L		101	90 - 110

Lab Sample ID: MRL 440-625754/9
Matrix: Water
Analysis Batch: 625754

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.179	J	mg/L		90	50 - 150

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 440-272053-D-1 MS
Matrix: Water
Analysis Batch: 625754

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia (as N)	ND	F1	5.00	5.59	F1	mg/L		112	90 - 110		

Lab Sample ID: 440-272053-D-1 MSD
Matrix: Water
Analysis Batch: 625754

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	ND	F1	5.00	5.05		mg/L		101	90 - 110	10	15

Lab Sample ID: 440-272053-D-1 DU
Matrix: Water
Analysis Batch: 625754

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia (as N)	ND	F1		ND		mg/L				NC	15

Method: 410.4 - COD

Lab Sample ID: MB 440-626113/4
Matrix: Water
Analysis Batch: 626113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/29/20 15:28	1

Lab Sample ID: LCS 440-626113/5
Matrix: Water
Analysis Batch: 626113

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			200	185		mg/L		93	90 - 110		

Lab Sample ID: 440-272125-1 MS
Matrix: Water
Analysis Batch: 626113

Client Sample ID: DW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		200	170		mg/L		85	70 - 120		

Lab Sample ID: 440-272125-1 MSD
Matrix: Water
Analysis Batch: 626113

Client Sample ID: DW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		200	169		mg/L		85	70 - 120	0	15

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 440-626238/4
Matrix: Water
Analysis Batch: 626238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/30/20 14:42	1

Lab Sample ID: LCS 440-626238/5
Matrix: Water
Analysis Batch: 626238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	200		mg/L		100	90 - 110

Lab Sample ID: 440-272484-D-1 MS
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	43		200	230		mg/L		94	70 - 120

Lab Sample ID: 440-272484-D-1 MSD
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	43		200	219		mg/L		88	70 - 120	5	15

Lab Sample ID: 440-272484-D-1 DU
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	43		43.1		mg/L		1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-625411/28
Matrix: Water
Analysis Batch: 625411

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			09/23/20 08:58	1

Lab Sample ID: LCS 440-625411/27
Matrix: Water
Analysis Batch: 625411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	75.8	77.4		mg/L		102	80 - 120

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 440-272125-1 DU
Matrix: Water
Analysis Batch: 625411

Client Sample ID: DW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	360		368		mg/L		1	20

Lab Sample ID: 440-272125-4 DU
Matrix: Water
Analysis Batch: 625411

Client Sample ID: PZ-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	360		369		mg/L		3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-625388/1
Matrix: Water
Analysis Batch: 625388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			09/23/20 09:22	1

Lab Sample ID: LCS 440-625388/2
Matrix: Water
Analysis Batch: 625388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	954		mg/L		95	90 - 110

Lab Sample ID: 440-272100-G-11 DU
Matrix: Water
Analysis Batch: 625388

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1170		mg/L		0.09	5

Method: SM 5310C - TOC

Lab Sample ID: MB 440-625671/8
Matrix: Water
Analysis Batch: 625671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			09/24/20 06:18	1

Lab Sample ID: LCS 440-625671/7
Matrix: Water
Analysis Batch: 625671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	5.00	5.02		mg/L		100	85 - 115

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MRL 440-625671/6
Matrix: Water
Analysis Batch: 625671

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			0.100	0.0892	J	mg/L		89	50 - 150		

Lab Sample ID: 440-272125-1 MS
Matrix: Water
Analysis Batch: 625671

Client Sample ID: DW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	2.0		6.00	7.57		mg/L		94	85 - 115		

Lab Sample ID: 440-272125-1 MSD
Matrix: Water
Analysis Batch: 625671

Client Sample ID: DW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.0		6.00	7.82		mg/L		98	85 - 115	3	20

Lab Sample ID: MB 440-625825/7
Matrix: Water
Analysis Batch: 625825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			09/25/20 06:02	1

Lab Sample ID: LCS 440-625825/6
Matrix: Water
Analysis Batch: 625825

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			5.00	4.79		mg/L		96	85 - 115		

Lab Sample ID: MRL 440-625825/8
Matrix: Water
Analysis Batch: 625825

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			0.100	0.103		mg/L		103	50 - 150		

Lab Sample ID: 440-272258-I-3 MS
Matrix: Water
Analysis Batch: 625825

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.8		5.00	6.59		mg/L		97	85 - 115		

Lab Sample ID: 440-272258-I-3 MSD
Matrix: Water
Analysis Batch: 625825

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.8		5.00	7.11		mg/L		107	85 - 115	8	20

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

GC/MS VOA

Analysis Batch: 97320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	8260B	
440-272125-2	DW-3	Total/NA	Water	8260B	
440-272125-3	DW-5	Total/NA	Water	8260B	
440-272125-4	PZ-2	Total/NA	Water	8260B	
440-272125-5	MW-5	Total/NA	Water	8260B	
440-272125-6	MW-9	Total/NA	Water	8260B	
440-272125-7	MW-1	Total/NA	Water	8260B	
440-272125-10	Field Blank	Total/NA	Water	8260B	
MB 570-97320/14	Method Blank	Total/NA	Water	8260B	
LCS 570-97320/1011	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97320/12	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 97365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total/NA	Water	8260B	
440-272125-9	LY-7	Total/NA	Water	8260B	
440-272125-11	Trip Blank	Total/NA	Water	8260B	
MB 570-97365/7	Method Blank	Total/NA	Water	8260B	
LCS 570-97365/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97365/5	Lab Control Sample Dup	Total/NA	Water	8260B	
440-272125-9 MS	LY-7	Total/NA	Water	8260B	
440-272125-9 MSD	LY-7	Total/NA	Water	8260B	

Analysis Batch: 97477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	8260B	
440-272125-2	DW-3	Total/NA	Water	8260B	
440-272125-3	DW-5	Total/NA	Water	8260B	
440-272125-4	PZ-2	Total/NA	Water	8260B	
440-272125-5	MW-5	Total/NA	Water	8260B	
440-272125-6	MW-9	Total/NA	Water	8260B	
440-272125-7	MW-1	Total/NA	Water	8260B	
440-272125-10	Field Blank	Total/NA	Water	8260B	
MB 570-97477/13	Method Blank	Total/NA	Water	8260B	
LCS 570-97477/9	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97477/10	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 99335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-9 - DL	LY-7	Total/NA	Water	8260B	
MB 570-99335/7	Method Blank	Total/NA	Water	8260B	
LCS 570-99335/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-99335/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 97125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	3510C	
440-272125-2	DW-3	Total/NA	Water	3510C	
440-272125-3	DW-5	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 97125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-4	PZ-2	Total/NA	Water	3510C	
440-272125-5	MW-5	Total/NA	Water	3510C	
440-272125-6	MW-9	Total/NA	Water	3510C	
440-272125-7	MW-1	Total/NA	Water	3510C	
440-272125-8	Extraction Trench	Total/NA	Water	3510C	
440-272125-9	LY-7	Total/NA	Water	3510C	
MB 570-97125/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-97125/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-97125/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
440-272125-1 MS	DW-2	Total/NA	Water	3510C	
440-272125-1 MSD	DW-2	Total/NA	Water	3510C	

Analysis Batch: 97268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	8270C SIM ID	97125
440-272125-2	DW-3	Total/NA	Water	8270C SIM ID	97125
440-272125-3	DW-5	Total/NA	Water	8270C SIM ID	97125
440-272125-4	PZ-2	Total/NA	Water	8270C SIM ID	97125
440-272125-5	MW-5	Total/NA	Water	8270C SIM ID	97125
440-272125-6	MW-9	Total/NA	Water	8270C SIM ID	97125
440-272125-7	MW-1	Total/NA	Water	8270C SIM ID	97125
440-272125-9	LY-7	Total/NA	Water	8270C SIM ID	97125
LCS 570-97125/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	97125
LCSD 570-97125/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	97125
440-272125-1 MS	DW-2	Total/NA	Water	8270C SIM ID	97125
440-272125-1 MSD	DW-2	Total/NA	Water	8270C SIM ID	97125

Analysis Batch: 97341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-97125/1-A	Method Blank	Total/NA	Water	8270C SIM ID	97125

Analysis Batch: 97690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total/NA	Water	8270C SIM ID	97125

HPLC/IC

Analysis Batch: 625535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	300.0	
440-272125-2	DW-3	Total/NA	Water	300.0	
440-272125-3	DW-5	Total/NA	Water	300.0	
440-272125-4	PZ-2	Total/NA	Water	300.0	
MB 440-625535/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625535/5	Lab Control Sample	Total/NA	Water	300.0	
440-272229-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-272229-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-272250-A-7 MS	Matrix Spike	Total/NA	Water	300.0	
440-272250-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

HPLC/IC

Analysis Batch: 625700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-5	MW-5	Total/NA	Water	300.0	
440-272125-6	MW-9	Total/NA	Water	300.0	
440-272125-7	MW-1	Total/NA	Water	300.0	
440-272125-8	Extraction Trench	Total/NA	Water	300.0	
440-272125-9	LY-7	Total/NA	Water	300.0	
MB 440-625700/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625700/5	Lab Control Sample	Total/NA	Water	300.0	
440-272125-7 MS	MW-1	Total/NA	Water	300.0	
440-272125-7 MSD	MW-1	Total/NA	Water	300.0	

Metals

Prep Batch: 625927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total Recoverable	Water	3005A	
440-272125-2	DW-3	Total Recoverable	Water	3005A	
440-272125-3	DW-5	Total Recoverable	Water	3005A	
440-272125-4	PZ-2	Total Recoverable	Water	3005A	
440-272125-5	MW-5	Total Recoverable	Water	3005A	
440-272125-6	MW-9	Total Recoverable	Water	3005A	
440-272125-7	MW-1	Total Recoverable	Water	3005A	
MB 440-625927/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-625927/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272255-E-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
440-272255-E-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 626084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total Recoverable	Water	6010B	625927
440-272125-2	DW-3	Total Recoverable	Water	6010B	625927
440-272125-3	DW-5	Total Recoverable	Water	6010B	625927
440-272125-4	PZ-2	Total Recoverable	Water	6010B	625927
440-272125-5	MW-5	Total Recoverable	Water	6010B	625927
440-272125-6	MW-9	Total Recoverable	Water	6010B	625927
440-272125-7	MW-1	Total Recoverable	Water	6010B	625927
MB 440-625927/1-A	Method Blank	Total Recoverable	Water	6010B	625927
LCS 440-625927/2-A	Lab Control Sample	Total Recoverable	Water	6010B	625927
440-272255-E-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	625927
440-272255-E-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	625927

Prep Batch: 626109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total Recoverable	Water	3005A	
440-272125-9	LY-7	Total Recoverable	Water	3005A	
MB 440-626109/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-626109/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272125-8 MS	Extraction Trench	Total Recoverable	Water	3005A	
440-272125-8 MSD	Extraction Trench	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 626249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total Recoverable	Water	6010B	626109
440-272125-9	LY-7	Total Recoverable	Water	6010B	626109
MB 440-626109/1-A	Method Blank	Total Recoverable	Water	6010B	626109
LCS 440-626109/2-A	Lab Control Sample	Total Recoverable	Water	6010B	626109
440-272125-8 MS	Extraction Trench	Total Recoverable	Water	6010B	626109
440-272125-8 MSD	Extraction Trench	Total Recoverable	Water	6010B	626109

General Chemistry

Analysis Batch: 625388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	SM 2540C	
440-272125-2	DW-3	Total/NA	Water	SM 2540C	
440-272125-3	DW-5	Total/NA	Water	SM 2540C	
440-272125-4	PZ-2	Total/NA	Water	SM 2540C	
440-272125-5	MW-5	Total/NA	Water	SM 2540C	
440-272125-6	MW-9	Total/NA	Water	SM 2540C	
440-272125-7	MW-1	Total/NA	Water	SM 2540C	
440-272125-8	Extraction Trench	Total/NA	Water	SM 2540C	
440-272125-9	LY-7	Total/NA	Water	SM 2540C	
MB 440-625388/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-625388/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-272100-G-11 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 625411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	SM 2320B	
440-272125-2	DW-3	Total/NA	Water	SM 2320B	
440-272125-3	DW-5	Total/NA	Water	SM 2320B	
440-272125-4	PZ-2	Total/NA	Water	SM 2320B	
440-272125-5	MW-5	Total/NA	Water	SM 2320B	
440-272125-6	MW-9	Total/NA	Water	SM 2320B	
440-272125-7	MW-1	Total/NA	Water	SM 2320B	
440-272125-8	Extraction Trench	Total/NA	Water	SM 2320B	
440-272125-9	LY-7	Total/NA	Water	SM 2320B	
MB 440-625411/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-625411/27	Lab Control Sample	Total/NA	Water	SM 2320B	
440-272125-1 DU	DW-2	Total/NA	Water	SM 2320B	
440-272125-4 DU	PZ-2	Total/NA	Water	SM 2320B	

Analysis Batch: 625470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	350.1	
440-272125-2	DW-3	Total/NA	Water	350.1	
440-272125-3	DW-5	Total/NA	Water	350.1	
440-272125-4	PZ-2	Total/NA	Water	350.1	
440-272125-5	MW-5	Total/NA	Water	350.1	
440-272125-6	MW-9	Total/NA	Water	350.1	
MB 440-625470/10	Method Blank	Total/NA	Water	350.1	
LCS 440-625470/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-625470/9	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 625470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272084-D-2 MS	Matrix Spike	Total/NA	Water	350.1	
440-272084-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 625671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	SM 5310C	
440-272125-2	DW-3	Total/NA	Water	SM 5310C	
440-272125-3	DW-5	Total/NA	Water	SM 5310C	
440-272125-4	PZ-2	Total/NA	Water	SM 5310C	
440-272125-5	MW-5	Total/NA	Water	SM 5310C	
440-272125-6	MW-9	Total/NA	Water	SM 5310C	
440-272125-7	MW-1	Total/NA	Water	SM 5310C	
440-272125-9	LY-7	Total/NA	Water	SM 5310C	
MB 440-625671/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-625671/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-625671/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-272125-1 MS	DW-2	Total/NA	Water	SM 5310C	
440-272125-1 MSD	DW-2	Total/NA	Water	SM 5310C	

Analysis Batch: 625754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-7	MW-1	Total/NA	Water	350.1	
440-272125-8	Extraction Trench	Total/NA	Water	350.1	
440-272125-9	LY-7	Total/NA	Water	350.1	
MB 440-625754/10	Method Blank	Total/NA	Water	350.1	
LCS 440-625754/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-625754/9	Lab Control Sample	Total/NA	Water	350.1	
440-272053-D-1 MS	Matrix Spike	Total/NA	Water	350.1	
440-272053-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
440-272053-D-1 DU	Duplicate	Total/NA	Water	350.1	

Analysis Batch: 625825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total/NA	Water	SM 5310C	
MB 440-625825/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-625825/6	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-625825/8	Lab Control Sample	Total/NA	Water	SM 5310C	
440-272258-I-3 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-272258-I-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

Analysis Batch: 626113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1	DW-2	Total/NA	Water	410.4	
440-272125-2	DW-3	Total/NA	Water	410.4	
440-272125-3	DW-5	Total/NA	Water	410.4	
440-272125-4	PZ-2	Total/NA	Water	410.4	
440-272125-5	MW-5	Total/NA	Water	410.4	
440-272125-6	MW-9	Total/NA	Water	410.4	
440-272125-7	MW-1	Total/NA	Water	410.4	
MB 440-626113/4	Method Blank	Total/NA	Water	410.4	
LCS 440-626113/5	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 626113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-1 MS	DW-2	Total/NA	Water	410.4	
440-272125-1 MSD	DW-2	Total/NA	Water	410.4	

Analysis Batch: 626238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272125-8	Extraction Trench	Total/NA	Water	410.4	
440-272125-9	LY-7	Total/NA	Water	410.4	
MB 440-626238/4	Method Blank	Total/NA	Water	410.4	
LCS 440-626238/5	Lab Control Sample	Total/NA	Water	410.4	
440-272484-D-1 MS	Matrix Spike	Total/NA	Water	410.4	
440-272484-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	
440-272484-D-1 DU	Duplicate	Total/NA	Water	410.4	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 440-272125-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience Irvine

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	State	CA01531	06-30-21
Arizona	State	AZ0671	10-13-20
California	Los Angeles County Sanitation Districts	10256	06-30-21
California	State	2706	06-30-21
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-21
Nevada	State	CA015312021-1	07-31-21
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-21

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact			
Company Name: GLA / Republic	Project Manager: Kyle Welchen	Site Contact: J. Mills	Date: 9-22-20
Address: 11415 W. Bernardo Ct.	Tel/Email: 858-451-1136	Lab Contact: R. Tamara	Carrier: TTA
City/State/Zip: S.D., CA 92127	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS		
Phone: 858-451-1136	TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Fax: 858-451-1087			
Project Name: Republic Services			
Site: Sunshine Sym. L/F			
P O #			

COC No: 1 of 1 COCs

Sampler: BS, CV, MS

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260B	SVOCs 8270	4-Dioxane	TOC (415.1)	TDS (160.1)	Alkalinity (310.1)	Ammonia (350.2)	COD (410.4)	Chloride (300.0)	Potassium (6010)	Sample Specific Notes
DW-2	9/22/20	0815	G	GW	12			X	X	X	X	X	X	X	X	X	X	
DW-3		0925			12			X	X	X	X	X	X	X	X	X	X	
DW-5		1144			12			X	X	X	X	X	X	X	X	X	X	
PZ-2		0818			12			X	X	X	X	X	X	X	X	X	X	
MW-5		1007			12			X	X	X	X	X	X	X	X	X	X	
MW-9		1115			12			X	X	X	X	X	X	X	X	X	X	
MW-1		1245	G	GW	12			X	X	X	X	X	X	X	X	X	X	
Extraction Trench		0912	WW	WW	12			X	X	X	X	X	X	X	X	X	X	
LY-7		0718	GW	WW	12			X	X	X	X	X	X	X	X	X	X	
Field Blank		—	LAB	LAB H2O	4			X										
Trip Blank	9/22/20	—	G	"	4			X										

440-272125 Chain of Custody

9/22/20 OC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

1.6/1.5 1.3/1.2 1.5/1.4 IR89

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd. _____ Therm ID No.: _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	Geo-Logic	9-22-20 1300	[signature]	EC-IRV	9/22/20 1300
[signature]	EC-IRV	9/22/20 1438			
			Received in Laboratory by: [signature]	EC-IRV	9/22/20 1438

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 440-162064.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rossina.Tomova@Eurofinset.com	State of Origin: California	Page: Page 1 of 2
Company: Eurofins Calscience LLC		Accreditations Required (See note):		Job #: 440-272125-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 10/5/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Sunshine Canyon	Project #: 44007851			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030C (MOD) Appendix II +MTBE+TBA+TICS	8260B_LL/5030C_UP (MOD) A+A	8270C_SIM_MS_ID/3510C 1,4-Dioxane - SIM_MS_ID	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
DW-2 (440-272125-1)	9/22/20	08:15 Pacific		Water			X	X	X	8	
DW-3 (440-272125-2)	9/22/20	09:25 Pacific		Water			X	X	X	8	
DW-5 (440-272125-3)	9/22/20	11:44 Pacific		Water			X	X	X	8	
PZ-2 (440-272125-4)	9/22/20	08:18 Pacific		Water			X	X	X	8	
MW-5 (440-272125-5)	9/22/20	10:07 Pacific		Water			X	X	X	8	
MW-9 (440-272125-6)	9/22/20	11:15 Pacific		Water			X	X	X	8	
MW-1 (440-272125-7)	9/22/20	12:45 Pacific		Water			X	X	X	8	
Extraction Trench (440-272125-8)	9/22/20	09:12 Pacific		Water			X	X	X	8	
LY-7 (440-272125-9)	9/22/20	07:18 Pacific		Water			X	X	X	8	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Olga Omelos	9/22/20 1740	EA-IRV		09/22/2020 1740	EA
2		09/22/2020 1830	EA	Dannyle	9/22/20 18:30	EC
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.8/2.4 SCB

Ver: 01/16/2019
10/6/2020

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 440-162064.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rossina.Tomova@Eurofinset.com	State of Origin: California	Page: Page 2 of 2
Company: Eurofins Calscience LLC		Accreditations Required (See note):		Job #: 440-272125-1
Address: 7440 Lincoln Way,	Due Date Requested: 10/5/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Sunshine Canyon	Project #: 44007851			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030C (MOD) Appendix II +MTBE+TBA+TICS	8260B_LL/5030C_UP (MOD) A+A	8270C_SIM_MS_ID/3510C 1,4-Dioxane - SIM_MS_ID	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
Field Blank (440-272125-10)	9/22/20	00:01 Pacific		Water			X	X		4	
Trip Blank (440-272125-11)	9/22/20	00:01 Pacific		Water			X	X		4	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Nigel Cinelas	9/22/20 1740	ECI-IRV		09/22/2020 1740	ECI
2	Relinquished by:	Date/Time: 09/22/2020 1830	ECI	Received by: Dannyle	Date/Time: 9/22/20 18:30	Company ECI
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272125-1

Login Number: 272125
List Number: 1
Creator: Lagunas, Jorge L

List Source: Eurofins Irvine

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272125-1

Login Number: 272125
List Number: 2
Creator: Le, Danny

List Source: Eurofins Calscience
List Creation: 09/22/20 11:26 PM

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272125-1

Login Number: 272125
List Number: 3
Creator: Le, Danny

List Source: Eurofins Calscience
List Creation: 09/22/20 11:29 PM

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272125-1

Login Number: 272125
List Number: 4
Creator: Le, Danny

List Source: Eurofins Calscience
List Creation: 09/22/20 11:52 PM

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

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272125-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (15-150)						
440-272125-1	DW-2	48						
440-272125-1 MS	DW-2	50						
440-272125-1 MSD	DW-2	46						
440-272125-2	DW-3	42						
440-272125-3	DW-5	51						
440-272125-4	PZ-2	46						
440-272125-5	MW-5	48						
440-272125-6	MW-9	48						
440-272125-7	MW-1	50						
440-272125-8	Extraction Trench	40 *3						
440-272125-9	LY-7	48						
LCS 570-97125/2-A	Lab Control Sample	43						
LCSD 570-97125/3-A	Lab Control Sample Dup	44						
MB 570-97125/1-A	Method Blank	51						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-272199-1
Client Project/Site: Republic Sunshine Canyon

For:
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Attn: Kyle Welchans

Authorized for release by:
10/1/2020 11:14:59 AM

Rossina Tomova, Project Manager I
(949)260-3276
Rossina.Tomova@Eurofinset.com

LINKS

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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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Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-272199-1	MW-2A	Water	09/23/20 08:45	09/23/20 16:32	
440-272199-2	MW-2B	Water	09/23/20 09:45	09/23/20 16:32	
440-272199-3	DW-4	Water	09/23/20 10:50	09/23/20 16:32	
440-272199-4	Field Blank	Water	09/23/20 00:01	09/23/20 16:32	
440-272199-5	Trip Blank	Water	09/23/20 00:01	09/23/20 16:32	

Case Narrative

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Job ID: 440-272199-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-272199-1

Comments
No additional comments.

Receipt
The samples were received on 9/23/2020 4:32 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 570-97473 contained Bromodichloromethane, Dibromochloromethane, and Chloroform above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method 8260B: The lot test of the laboratory trip blank water associated with 440-272199 indicated a detection above the method detection limit (MDL) for the following analyte(s): Methylene Chloride.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-97473.

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

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

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

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Potassium were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

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

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: MW-2A
Date Collected: 09/23/20 08:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 22:51	1
Acrolein	ND		10	0.59	ug/L			09/26/20 22:51	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 22:51	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 22:51	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 22:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 22:51	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 22:51	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 22:51	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:51	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 22:51	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 22:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 22:51	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 22:51	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 22:51	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 22:51	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 22:51	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 22:51	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 22:51	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 22:51	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 22:51	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 22:51	1
Acetone	ND		10	4.0	ug/L			09/26/20 22:51	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 22:51	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 22:51	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 22:51	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 22:51	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 22:51	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 22:51	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 22:51	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 22:51	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 22:51	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 22:51	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 22:51	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 22:51	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 22:51	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 22:51	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 22:51	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 22:51	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 22:51	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 22:51	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 22:51	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 22:51	1
Iodomethane	ND		25	14	ug/L			09/26/20 22:51	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 22:51	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 22:51	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 22:51	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 22:51	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 22:51	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 22:51	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: MW-2A
Date Collected: 09/23/20 08:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 22:51	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 22:51	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 22:51	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 22:51	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 22:51	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 22:51	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 22:51	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 22:51	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 22:51	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 22:51	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 22:51	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 22:51	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 22:51	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 22:51	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 22:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 22:51	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 22:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 22:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*44*	*T J*	*ug/L*		*1.74*			*09/26/20 22:51*	*1*
Ethane, 1,1-difluoro-	*66*	*T J N*	*ug/L*		*1.80*	*75-37-6*		*09/26/20 22:51*	*1*
Methane, chlorodifluoro-	*120*	*T J N*	*ug/L*		*1.85*	*75-45-6*		*09/26/20 22:51*	*1*
Sulfur dioxide	*50*	*T J N*	*ug/L*		*1.98*	*7446-09-5*		*09/26/20 22:51*	*1*
Unknown	*40*	*T J*	*ug/L*		*2.15*			*09/26/20 22:51*	*1*
Unknown	*15*	*T J*	*ug/L*		*2.17*			*09/26/20 22:51*	*1*
Unknown	*18*	*T J*	*ug/L*		*2.27*			*09/26/20 22:51*	*1*
Unknown	*16*	*T J*	*ug/L*		*2.33*			*09/26/20 22:51*	*1*
Unknown	*45*	*T J*	*ug/L*		*2.46*			*09/26/20 22:51*	*1*
Unknown	*26*	*T J*	*ug/L*		*2.60*			*09/26/20 22:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 22:51*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 22:51*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/26/20 22:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*09/26/20 22:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/26/20 22:51*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 22:51*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/26/20 22:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*09/26/20 22:51*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.1**		0.50	0.18	ug/L		09/25/20 07:41	09/28/20 19:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*56*		*15 - 150*	*09/25/20 07:41*	*09/28/20 19:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*83*		*46 - 128*	*09/25/20 07:41*	*09/28/20 19:31*	*1*

Client Sample ID: MW-2A

Date Collected: 09/23/20 08:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31**		2.5	1.3	mg/L			09/23/20 22:11	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.7**		0.50	0.25	mg/L		09/28/20 12:35	09/29/20 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/30/20 14:43	1
Total Dissolved Solids	**2800**		20	10	mg/L			09/24/20 10:19	1
Ammonia (as N)	**3.1**		0.50	0.10	mg/L		09/28/20 04:00	09/28/20 05:00	1
Total Organic Carbon	**4.3**		0.10	0.050	mg/L			09/24/20 12:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**370**		4.0	4.0	mg/L			09/24/20 07:31	1

Client Sample ID: MW-2B

Date Collected: 09/23/20 09:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 23:16	1
Acrolein	ND		10	0.59	ug/L			09/26/20 23:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 23:16	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 23:16	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 23:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 23:16	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 23:16	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 23:16	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:16	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 23:16	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 23:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 23:16	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 23:16	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 23:16	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 23:16	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 23:16	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 23:16	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 23:16	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 23:16	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 23:16	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 23:16	1
Acetone	ND		10	4.0	ug/L			09/26/20 23:16	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 23:16	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 23:16	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 23:16	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 23:16	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 23:16	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 23:16	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 23:16	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: MW-2B
Date Collected: 09/23/20 09:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 23:16	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 23:16	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 23:16	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 23:16	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 23:16	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 23:16	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 23:16	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 23:16	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 23:16	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 23:16	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 23:16	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 23:16	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 23:16	1
Iodomethane	ND		25	14	ug/L			09/26/20 23:16	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 23:16	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 23:16	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 23:16	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 23:16	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 23:16	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 23:16	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 23:16	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 23:16	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 23:16	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 23:16	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 23:16	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 23:16	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 23:16	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 23:16	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 23:16	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 23:16	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 23:16	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:16	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 23:16	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 23:16	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 23:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 23:16	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 23:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 23:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*47*	*T J*	*ug/L*		*1.76*			*09/26/20 23:16*	*1*
Unknown	*37*	*T J*	*ug/L*		*1.98*			*09/26/20 23:16*	*1*
Unknown	*40*	*T J*	*ug/L*		*2.14*			*09/26/20 23:16*	*1*
Unknown	*11*	*T J*	*ug/L*		*2.27*			*09/26/20 23:16*	*1*
Unknown	*28*	*T J*	*ug/L*		*2.34*			*09/26/20 23:16*	*1*
1H-1,2,4-Triazole-3-carboxaldehyde, 5-(4-pyridinyl)-	*24*	*T J N*	*ug/L*		*2.45*	*42786-73-2*		*09/26/20 23:16*	*1*
Unknown	*14*	*T J*	*ug/L*		*2.49*			*09/26/20 23:16*	*1*
Unknown	*16*	*T J*	*ug/L*		*2.52*			*09/26/20 23:16*	*1*
Unknown	*13*	*T J*	*ug/L*		*2.57*			*09/26/20 23:16*	*1*

Client Sample ID: MW-2B

Date Collected: 09/23/20 09:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-2

Matrix: Water

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	19	T J	ug/L		2.94			09/26/20 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/26/20 23:16	1
4-Bromofluorobenzene (Surr)	94		68 - 120		09/26/20 23:16	1
Dibromofluoromethane (Surr)	101		80 - 127		09/26/20 23:16	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 128		09/26/20 23:16	1
Toluene-d8 (Surr)	99		80 - 120		09/26/20 23:16	1
4-Bromofluorobenzene (Surr)	94		68 - 120		09/26/20 23:16	1
Dibromofluoromethane (Surr)	101		80 - 127		09/26/20 23:16	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 128		09/26/20 23:16	1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:41	09/28/20 19:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	58		15 - 150	09/25/20 07:41	09/28/20 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	81		46 - 128	09/25/20 07:41	09/28/20 19:47	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		2.5	1.3	mg/L			09/23/20 22:30	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.6**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/30/20 14:43	1
Total Dissolved Solids	**2700**		20	10	mg/L			09/24/20 10:19	1
Ammonia (as N)	**2.9**		0.50	0.10	mg/L		09/28/20 04:00	09/28/20 05:00	1
Total Organic Carbon	**2.4**		0.10	0.050	mg/L			09/24/20 12:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**350**		4.0	4.0	mg/L			09/24/20 07:52	1

Client Sample ID: DW-4

Date Collected: 09/23/20 10:50
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 23:42	1
Acrolein	ND		10	0.59	ug/L			09/26/20 23:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 23:42	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 23:42	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 23:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 23:42	1

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: DW-4
Date Collected: 09/23/20 10:50
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 23:42	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 23:42	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:42	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 23:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 23:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 23:42	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 23:42	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 23:42	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 23:42	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 23:42	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 23:42	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 23:42	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 23:42	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 23:42	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 23:42	1
Acetone	ND		10	4.0	ug/L			09/26/20 23:42	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 23:42	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 23:42	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 23:42	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 23:42	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 23:42	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 23:42	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 23:42	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 23:42	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 23:42	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 23:42	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 23:42	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 23:42	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 23:42	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 23:42	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 23:42	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 23:42	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 23:42	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 23:42	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 23:42	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 23:42	1
Iodomethane	ND		25	14	ug/L			09/26/20 23:42	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 23:42	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 23:42	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 23:42	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 23:42	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 23:42	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 23:42	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 23:42	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 23:42	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 23:42	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 23:42	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 23:42	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 23:42	1

Client Sample ID: DW-4

Date Collected: 09/23/20 10:50
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 23:42	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 23:42	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 23:42	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 23:42	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 23:42	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 23:42	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 23:42	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 23:42	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 23:42	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 23:42	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 23:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*33*	*T J*	*ug/L*		*1.79*			*09/26/20 23:42*	*1*
Unknown	*40*	*T J*	*ug/L*		*1.98*			*09/26/20 23:42*	*1*
Unknown	*32*	*T J*	*ug/L*		*2.13*			*09/26/20 23:42*	*1*
Unknown	*27*	*T J*	*ug/L*		*2.24*			*09/26/20 23:42*	*1*
Unknown	*33*	*T J*	*ug/L*		*2.32*			*09/26/20 23:42*	*1*
Unknown	*47*	*T J*	*ug/L*		*2.45*			*09/26/20 23:42*	*1*
Unknown	*23*	*T J*	*ug/L*		*2.57*			*09/26/20 23:42*	*1*
Unknown	*21*	*T J*	*ug/L*		*2.72*			*09/26/20 23:42*	*1*
Unknown	*21*	*T J*	*ug/L*		*2.92*			*09/26/20 23:42*	*1*
Unknown	*22*	*T J*	*ug/L*		*3.03*			*09/26/20 23:42*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/20 23:42*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*09/26/20 23:42*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 127*		*09/26/20 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*		*09/26/20 23:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/20 23:42*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*09/26/20 23:42*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 127*		*09/26/20 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 128*		*09/26/20 23:42*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:41	09/28/20 20:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*50*		*15 - 150*	*09/25/20 07:41*	*09/28/20 20:03*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*46 - 128*	*09/25/20 07:41*	*09/28/20 20:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		2.5	1.3	mg/L			09/23/20 22:48	5

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.5**		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 11:15	1

Client Sample ID: DW-4

Lab Sample ID: 440-272199-3

Date Collected: 09/23/20 10:50

Matrix: Water

Date Received: 09/23/20 16:32

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/30/20 14:43	1
Total Dissolved Solids	**3000**		20	10	mg/L			09/24/20 10:19	1
Ammonia (as N)	**4.1**		0.50	0.10	mg/L		09/28/20 04:00	09/28/20 05:00	1
Total Organic Carbon	**2.3**		0.10	0.050	mg/L			09/25/20 06:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**350**		4.0	4.0	mg/L			09/24/20 08:01	1

Client Sample ID: Field Blank

Lab Sample ID: 440-272199-4

Date Collected: 09/23/20 00:01

Matrix: Water

Date Received: 09/23/20 16:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 18:34	1
Acrolein	ND		10	0.59	ug/L			09/26/20 18:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 18:34	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 18:34	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 18:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 18:34	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 18:34	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 18:34	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 18:34	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 18:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 18:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 18:34	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 18:34	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 18:34	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 18:34	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 18:34	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 18:34	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 18:34	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 18:34	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 18:34	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 18:34	1
Acetone	**5.1**	**J**	10	4.0	ug/L			09/26/20 18:34	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 18:34	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 18:34	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 18:34	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 18:34	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 18:34	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 18:34	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 18:34	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 18:34	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 18:34	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 18:34	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 18:34	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 18:34	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 18:34	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 18:34	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 18:34	1

Client Sample ID: Field Blank

Date Collected: 09/23/20 00:01
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 18:34	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 18:34	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 18:34	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 18:34	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 18:34	1
Iodomethane	ND		25	14	ug/L			09/26/20 18:34	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 18:34	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 18:34	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 18:34	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 18:34	1
Methylene Chloride	**0.26**	**J**	1.0	0.043	ug/L			09/26/20 18:34	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 18:34	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 18:34	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 18:34	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 18:34	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 18:34	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 18:34	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 18:34	1
Tetrahydrofuran	**0.66**	**J**	2.0	0.57	ug/L			09/26/20 18:34	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 18:34	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 18:34	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 18:34	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 18:34	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 18:34	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 18:34	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 18:34	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 18:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 18:34	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 18:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*30*	*T J*	*ug/L*		*1.75*			*09/26/20 18:34*	*1*
Sulfur dioxide	*8.9*	*T J N*	*ug/L*		*1.99*	*7446-09-5*		*09/26/20 18:34*	*1*
Unknown	*27*	*T J*	*ug/L*		*2.06*			*09/26/20 18:34*	*1*
Unknown	*15*	*T J*	*ug/L*		*2.17*			*09/26/20 18:34*	*1*
Unknown	*9.8*	*T J*	*ug/L*		*2.23*			*09/26/20 18:34*	*1*
Unknown	*9.3*	*T J*	*ug/L*		*2.30*			*09/26/20 18:34*	*1*
Unknown	*43*	*T J*	*ug/L*		*2.47*			*09/26/20 18:34*	*1*
Unknown	*13*	*T J*	*ug/L*		*2.54*			*09/26/20 18:34*	*1*
Unknown	*8.7*	*T J*	*ug/L*		*2.69*			*09/26/20 18:34*	*1*
Unknown	*24*	*T J*	*ug/L*		*3.13*			*09/26/20 18:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 18:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 18:34*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/26/20 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*09/26/20 18:34*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 18:34*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*09/26/20 18:34*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-272199-4

Date Collected: 09/23/20 00:01
Matrix: Water
Date Received: 09/23/20 16:32

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*80 - 127*		*09/26/20 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 128*		*09/26/20 18:34*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-272199-5

Date Collected: 09/23/20 00:01
Matrix: Water
Date Received: 09/23/20 16:32

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 18:09	1
Acrolein	ND		10	0.59	ug/L			09/26/20 18:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 18:09	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 18:09	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 18:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 18:09	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 18:09	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 18:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 18:09	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 18:09	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 18:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 18:09	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 18:09	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 18:09	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 18:09	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 18:09	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 18:09	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 18:09	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 18:09	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 18:09	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 18:09	1
Acetone	ND		10	4.0	ug/L			09/26/20 18:09	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 18:09	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 18:09	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 18:09	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 18:09	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 18:09	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 18:09	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 18:09	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 18:09	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 18:09	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 18:09	1
Chloroform	ND		0.50	0.062	ug/L			09/26/20 18:09	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 18:09	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 18:09	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 18:09	1
Dibromochloromethane	ND		0.50	0.064	ug/L			09/26/20 18:09	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 18:09	1
Bromodichloromethane	ND		0.50	0.053	ug/L			09/26/20 18:09	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 18:09	1

Client Sample ID: Trip Blank
Date Collected: 09/23/20 00:01
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 18:09	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 18:09	1
Iodomethane	ND		25	14	ug/L			09/26/20 18:09	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 18:09	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 18:09	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 18:09	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 18:09	1
Methylene Chloride	**0.11**	**J**	1.0	0.043	ug/L			09/26/20 18:09	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 18:09	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 18:09	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 18:09	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 18:09	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 18:09	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 18:09	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 18:09	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 18:09	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 18:09	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 18:09	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 18:09	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 18:09	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 18:09	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 18:09	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 18:09	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 18:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 18:09	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 18:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*44*	*T J*	*ug/L*		*1.76*			*09/26/20 18:09*	*1*
Unknown	*10*	*T J*	*ug/L*		*2.09*			*09/26/20 18:09*	*1*
Unknown	*34*	*T J*	*ug/L*		*2.13*			*09/26/20 18:09*	*1*
Unknown	*15*	*T J*	*ug/L*		*2.31*			*09/26/20 18:09*	*1*
Unknown	*22*	*T J*	*ug/L*		*2.46*			*09/26/20 18:09*	*1*
Unknown	*35*	*T J*	*ug/L*		*2.48*			*09/26/20 18:09*	*1*
Unknown	*10*	*T J*	*ug/L*		*2.60*			*09/26/20 18:09*	*1*
Unknown	*8.1*	*T J*	*ug/L*		*2.94*			*09/26/20 18:09*	*1*
Unknown	*16*	*T J*	*ug/L*		*3.13*			*09/26/20 18:09*	*1*
Unknown	*9.3*	*T J*	*ug/L*		*3.88*			*09/26/20 18:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 18:09*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 120*		*09/26/20 18:09*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/26/20 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*		*09/26/20 18:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 18:09*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 120*		*09/26/20 18:09*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 127*		*09/26/20 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 128*		*09/26/20 18:09*	*1*

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 1
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
410.4	COD	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 4500 NH3 D	Ammonia	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
SM 4500 NH3 B	Distillation, Ammonia	SM	TAL IRV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: MW-2A
Date Collected: 09/23/20 08:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97473	09/26/20 22:51	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	97163	09/25/20 07:41	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97795	09/28/20 19:31	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625372	09/23/20 22:11	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:35	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:58	KE	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626238	09/30/20 14:43	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1			625669	09/24/20 07:31	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625556	09/24/20 10:19	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	625862	09/28/20 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			625865	09/28/20 05:00	YZ	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 12:34	YZ	TAL IRV

Client Sample ID: MW-2B
Date Collected: 09/23/20 09:45
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97473	09/26/20 23:16	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	97163	09/25/20 07:41	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97795	09/28/20 19:47	AJ2Q	ECL 1
Total/NA	Analysis	300.0		5			625372	09/23/20 22:30	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:12	KE	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	626238	09/30/20 14:43	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1			625669	09/24/20 07:52	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625556	09/24/20 10:19	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	625862	09/28/20 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			625865	09/28/20 05:00	YZ	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625671	09/24/20 12:49	YZ	TAL IRV

Client Sample ID: DW-4
Date Collected: 09/23/20 10:50
Date Received: 09/23/20 16:32

Lab Sample ID: 440-272199-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97473	09/26/20 23:42	UX77	ECL
Total/NA	Prep	3510C			100 mL	10 mL	97163	09/25/20 07:41	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			97795	09/28/20 20:03	AJ2Q	ECL 1
Total/NA	Analysis	300.0		200			625372	09/23/20 21:15	NTN	TAL IRV
Total/NA	Analysis	300.0		5			625372	09/23/20 22:48	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	625927	09/28/20 12:19	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			626084	09/29/20 11:15	KE	TAL IRV

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Client Sample ID: DW-4

Lab Sample ID: 440-272199-3

Date Collected: 09/23/20 10:50

Matrix: Water

Date Received: 09/23/20 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	410.4		1	2 mL	2 mL	626238	09/30/20 14:43	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1			625669	09/24/20 08:01	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	625556	09/24/20 10:19	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	625862	09/28/20 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			625865	09/28/20 05:00	YZ	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	625825	09/25/20 06:39	YZ	TAL IRV

Client Sample ID: Field Blank

Lab Sample ID: 440-272199-4

Date Collected: 09/23/20 00:01

Matrix: Water

Date Received: 09/23/20 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97473	09/26/20 18:34	UX77	ECL

Client Sample ID: Trip Blank

Lab Sample ID: 440-272199-5

Date Collected: 09/23/20 00:01

Matrix: Water

Date Received: 09/23/20 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			97473	09/26/20 18:09	UX77	ECL

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 570-97473/13
Matrix: Water
Analysis Batch: 97473

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			09/26/20 16:52	1
Acrolein	ND		10	0.59	ug/L			09/26/20 16:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			09/26/20 16:52	1
Acrylonitrile	ND		5.0	0.57	ug/L			09/26/20 16:52	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			09/26/20 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			09/26/20 16:52	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			09/26/20 16:52	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			09/26/20 16:52	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			09/26/20 16:52	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			09/26/20 16:52	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			09/26/20 16:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			09/26/20 16:52	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			09/26/20 16:52	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			09/26/20 16:52	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			09/26/20 16:52	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			09/26/20 16:52	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			09/26/20 16:52	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			09/26/20 16:52	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			09/26/20 16:52	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			09/26/20 16:52	1
2-Hexanone	ND		10	0.50	ug/L			09/26/20 16:52	1
Acetone	ND		10	4.0	ug/L			09/26/20 16:52	1
Acetonitrile	ND		10	2.0	ug/L			09/26/20 16:52	1
Benzene	ND		0.50	0.072	ug/L			09/26/20 16:52	1
Allyl chloride	ND		2.0	0.55	ug/L			09/26/20 16:52	1
Bromoform	ND		0.50	0.096	ug/L			09/26/20 16:52	1
Bromomethane	ND		2.0	0.99	ug/L			09/26/20 16:52	1
Carbon disulfide	ND		10	0.39	ug/L			09/26/20 16:52	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			09/26/20 16:52	1
Chlorobenzene	ND		0.50	0.088	ug/L			09/26/20 16:52	1
Bromochloromethane	ND		1.0	0.082	ug/L			09/26/20 16:52	1
Chloroethane	ND		0.50	0.12	ug/L			09/26/20 16:52	1
Chloroform	0.152	J	0.50	0.062	ug/L			09/26/20 16:52	1
Chloromethane	ND		5.0	2.0	ug/L			09/26/20 16:52	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			09/26/20 16:52	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			09/26/20 16:52	1
Dibromochloromethane	0.113	J	0.50	0.064	ug/L			09/26/20 16:52	1
Dibromomethane	ND		0.50	0.13	ug/L			09/26/20 16:52	1
Bromodichloromethane	0.119	J	0.50	0.053	ug/L			09/26/20 16:52	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			09/26/20 16:52	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			09/26/20 16:52	1
Ethylbenzene	ND		0.50	0.087	ug/L			09/26/20 16:52	1
Iodomethane	ND		25	14	ug/L			09/26/20 16:52	1
Isobutyl alcohol	ND		10	1.9	ug/L			09/26/20 16:52	1
m,p-Xylene	ND		1.0	0.15	ug/L			09/26/20 16:52	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			09/26/20 16:52	1
Methyl methacrylate	ND		2.0	0.48	ug/L			09/26/20 16:52	1
Methylene Chloride	ND		1.0	0.043	ug/L			09/26/20 16:52	1

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

Lab Sample ID: MB 570-97473/13
Matrix: Water
Analysis Batch: 97473

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			09/26/20 16:52	1
Naphthalene	ND		1.0	0.097	ug/L			09/26/20 16:52	1
o-Xylene	ND		0.50	0.086	ug/L			09/26/20 16:52	1
Propionitrile	ND		5.0	1.0	ug/L			09/26/20 16:52	1
Styrene	ND		0.50	0.059	ug/L			09/26/20 16:52	1
t-Butanol	ND		10	4.0	ug/L			09/26/20 16:52	1
Tetrachloroethene	ND		0.50	0.24	ug/L			09/26/20 16:52	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			09/26/20 16:52	1
Toluene	ND		0.50	0.093	ug/L			09/26/20 16:52	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			09/26/20 16:52	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			09/26/20 16:52	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			09/26/20 16:52	1
Trichloroethene	ND		0.50	0.10	ug/L			09/26/20 16:52	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			09/26/20 16:52	1
Vinyl acetate	ND		5.0	0.70	ug/L			09/26/20 16:52	1
Vinyl chloride	ND		0.50	0.078	ug/L			09/26/20 16:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			09/26/20 16:52	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			09/26/20 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			09/26/20 16:52	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/26/20 16:52*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/20 16:52*	*1*
4-Bromofluorobenzene (Surr)	*91*		*68 - 120*		*09/26/20 16:52*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 127*		*09/26/20 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*		*09/26/20 16:52*	*1*

Lab Sample ID: LCS 570-97473/9
Matrix: Water
Analysis Batch: 97473

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	10.1		ug/L		101	80 - 120
Acrolein	20.0	22.2		ug/L		111	61 - 144
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 126
Acrylonitrile	10.0	10.3		ug/L		103	53 - 130
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	80 - 125
1,1,2,2-Tetrachloroethane	10.0	10.1		ug/L		101	80 - 120
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	77 - 120
1,1-Dichloroethene	10.0	11.1		ug/L		111	74 - 128
1,1-Dichloropropene	10.0	10.8		ug/L		108	79 - 125
1,2,4-Trichlorobenzene	10.0	11.0		ug/L		110	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.91		ug/L		99	67 - 120
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	10.0	10.5		ug/L		105	80 - 123

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

Lab Sample ID: LCS 570-97473/9
Matrix: Water
Analysis Batch: 97473

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	10.3		ug/L		103	80 - 120
1,3-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
1,3-Dichloropropane	10.0	10.1		ug/L		101	80 - 120
1,4-Dichlorobenzene	10.0	10.8		ug/L		108	80 - 120
2,2-Dichloropropane	10.0	10.9		ug/L		109	77 - 139
2-Hexanone	10.0	9.55	J	ug/L		95	66 - 129
Acetone	10.0	10.4		ug/L		104	58 - 131
Benzene	10.0	10.7		ug/L		107	80 - 120
Bromoform	10.0	10.6		ug/L		106	70 - 141
Bromomethane	10.0	11.2		ug/L		112	50 - 150
Carbon disulfide	10.0	11.0		ug/L		110	65 - 136
Carbon tetrachloride	10.0	11.0		ug/L		110	75 - 142
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Bromochloromethane	10.0	10.0		ug/L		100	80 - 120
Chloroethane	10.0	11.0		ug/L		110	74 - 123
Chloroform	10.0	10.6		ug/L		106	80 - 120
Chloromethane	10.0	10.3		ug/L		103	54 - 140
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	80 - 121
cis-1,3-Dichloropropene	10.0	10.6		ug/L		106	80 - 120
Dibromochloromethane	10.0	10.5		ug/L		105	80 - 128
Dibromomethane	10.0	10.3		ug/L		103	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	80 - 126
Dichlorodifluoromethane	10.0	10.7		ug/L		107	63 - 135
Ethylbenzene	10.0	11.0		ug/L		110	80 - 120
m,p-Xylene	20.0	22.1		ug/L		110	80 - 120
Methylene Chloride	10.0	10.2		ug/L		102	71 - 125
Methyl tert-butyl ether	10.0	9.99		ug/L		100	70 - 121
Naphthalene	10.0	10.5		ug/L		105	80 - 125
o-Xylene	10.0	11.0		ug/L		110	80 - 120
Styrene	10.0	11.1		ug/L		111	80 - 120
t-Butanol	50.0	46.6		ug/L		93	77 - 124
Tetrachloroethene	10.0	11.1		ug/L		111	80 - 126
Toluene	10.0	10.6		ug/L		106	80 - 120
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 121
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	80 - 123
Trichloroethene	10.0	10.8		ug/L		108	80 - 120
Trichlorofluoromethane	10.0	10.2		ug/L		102	74 - 137
Vinyl acetate	10.0	9.25		ug/L		92	50 - 150
Vinyl chloride	10.0	10.3		ug/L		103	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.4		ug/L		104	80 - 120
2-Butanone (MEK)	10.0	9.86		ug/L		99	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.86		ug/L		99	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*

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

Lab Sample ID: LCSD 570-97473/10
Matrix: Water
Analysis Batch: 97473

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	9.88		ug/L		99	80 - 120	3	14
Acrolein	20.0	21.3		ug/L		106	61 - 144	4	30
1,1,1,2-Tetrachloroethane	10.0	10.4		ug/L		104	80 - 126	0	11
Acrylonitrile	10.0	10.2		ug/L		102	53 - 130	1	30
1,1,1-Trichloroethane	10.0	10.7		ug/L		107	80 - 125	2	14
1,1,2,2-Tetrachloroethane	10.0	9.82		ug/L		98	80 - 120	3	16
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 120	2	13
1,1-Dichloroethane	10.0	10.5		ug/L		105	77 - 120	2	14
1,1-Dichloroethene	10.0	10.8		ug/L		108	74 - 128	3	17
1,1-Dichloropropene	10.0	10.7		ug/L		107	79 - 125	1	14
1,2,4-Trichlorobenzene	10.0	10.4		ug/L		104	80 - 120	5	16
1,2-Dibromo-3-Chloropropane	10.0	9.49		ug/L		95	67 - 120	4	20
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120	5	14
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 123	2	10
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 120	2	11
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	80 - 120	5	15
1,3-Dichloropropane	10.0	9.99		ug/L		100	80 - 120	1	13
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120	6	15
2,2-Dichloropropane	10.0	10.5		ug/L		105	77 - 139	4	16
2-Hexanone	10.0	9.65	J	ug/L		96	66 - 129	1	21
Acetone	10.0	9.50	J	ug/L		95	58 - 131	9	30
Benzene	10.0	10.3		ug/L		103	80 - 120	4	12
Bromoform	10.0	10.0		ug/L		100	70 - 141	6	15
Bromomethane	10.0	10.9		ug/L		109	50 - 150	3	22
Carbon disulfide	10.0	10.9		ug/L		109	65 - 136	1	17
Carbon tetrachloride	10.0	10.9		ug/L		109	75 - 142	0	15
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120	3	12
Bromochloromethane	10.0	9.94		ug/L		99	80 - 120	1	12
Chloroethane	10.0	10.3		ug/L		103	74 - 123	7	17
Chloroform	10.0	10.2		ug/L		102	80 - 120	4	12
Chloromethane	10.0	10.2		ug/L		102	54 - 140	1	19
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 121	1	13
cis-1,3-Dichloropropene	10.0	10.0		ug/L		100	80 - 120	5	12
Dibromochloromethane	10.0	10.4		ug/L		104	80 - 128	1	11
Dibromomethane	10.0	9.94		ug/L		99	80 - 120	4	11
Bromodichloromethane	10.0	10.2		ug/L		102	80 - 126	3	11
Dichlorodifluoromethane	10.0	10.5		ug/L		105	63 - 135	2	17
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120	3	13
m,p-Xylene	20.0	21.5		ug/L		108	80 - 120	3	13
Methylene Chloride	10.0	10.2		ug/L		102	71 - 125	0	19
Methyl tert-butyl ether	10.0	9.83		ug/L		98	70 - 121	2	11
Naphthalene	10.0	10.7		ug/L		107	80 - 125	2	16
o-Xylene	10.0	10.8		ug/L		108	80 - 120	2	12
Styrene	10.0	10.7		ug/L		107	80 - 120	3	12
t-Butanol	50.0	52.5		ug/L		105	77 - 124	12	23
Tetrachloroethene	10.0	10.5		ug/L		105	80 - 126	6	15
Toluene	10.0	10.3		ug/L		103	80 - 120	3	13
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	74 - 121	1	14

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

Lab Sample ID: LCSD 570-97473/10
Matrix: Water
Analysis Batch: 97473

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			10.0	10.4		ug/L		104	80 - 123	0	13
Trichloroethene			10.0	10.3		ug/L		103	80 - 120	5	14
Trichlorofluoromethane			10.0	9.45		ug/L		95	74 - 137	7	16
Vinyl acetate			10.0	9.37		ug/L		94	50 - 150	1	28
Vinyl chloride			10.0	9.88		ug/L		99	72 - 126	4	17
1,2-Dibromoethane (EDB)			10.0	10.1		ug/L		101	80 - 120	3	12
2-Butanone (MEK)			10.0	9.96		ug/L		100	50 - 127	1	26
4-Methyl-2-pentanone (MIBK)			10.0	9.81		ug/L		98	72 - 120	1	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*68 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 127*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-97163/1-A
Matrix: Water
Analysis Batch: 97690

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		09/25/20 07:41	09/28/20 14:29	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*54*		*15 - 150*	*09/25/20 07:41*	*09/28/20 14:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*97*		*46 - 128*	*09/25/20 07:41*	*09/28/20 14:29*	*1*

Lab Sample ID: LCS 570-97163/2-A
Matrix: Water
Analysis Batch: 97690

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97163

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			20.0	17.2		ug/L		86	57 - 136		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*37*		*15 - 150*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*66*		*46 - 128*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCSD 570-97163/3-A
Matrix: Water
Analysis Batch: 97690

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97163

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	17.8		ug/L		89	57 - 136	3	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*55*		*15 - 150*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*90*		*46 - 128*

Lab Sample ID: 440-272205-D-2-A MS
Matrix: Water
Analysis Batch: 97795

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 97163

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	26		20.0	43.4		ug/L		86	45 - 139		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*56*		*15 - 150*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*		*46 - 128*

Lab Sample ID: 440-272205-D-2-B MSD
Matrix: Water
Analysis Batch: 97795

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 97163

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	26		20.0	46.9		ug/L		104	45 - 139	8	17

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*47*		*15 - 150*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*83*		*46 - 128*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-625372/6
Matrix: Water
Analysis Batch: 625372

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			09/23/20 11:13	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-625372/5
Matrix: Water
Analysis Batch: 625372

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			5.00	4.89		mg/L		98	90 - 110		

Lab Sample ID: 440-272199-3 MS
Matrix: Water
Analysis Batch: 625372

Client Sample ID: DW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	ND		1000	973		mg/L		97	80 - 120		

Lab Sample ID: 440-272199-3 MSD
Matrix: Water
Analysis Batch: 625372

Client Sample ID: DW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	ND		1000	972		mg/L		97	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-625927/1-A
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		09/28/20 12:19	09/29/20 10:17	1

Lab Sample ID: LCS 440-625927/2-A
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			10.0	9.98		mg/L		100	80 - 120		

Lab Sample ID: 440-272255-E-1-C MS
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	27	F1	10.0	42.1	F1	mg/L		148	75 - 125		

Lab Sample ID: 440-272255-E-1-D MSD
Matrix: Water
Analysis Batch: 626084

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 625927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	27	F1	10.0	40.1	F1	mg/L		128	75 - 125	5	20

Method: 410.4 - COD

Lab Sample ID: MB 440-626238/4
Matrix: Water
Analysis Batch: 626238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			09/30/20 14:42	1

Lab Sample ID: LCS 440-626238/5
Matrix: Water
Analysis Batch: 626238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	200		mg/L		100	90 - 110

Lab Sample ID: 440-272484-D-1 MS
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	43		200	230		mg/L		94	70 - 120

Lab Sample ID: 440-272484-D-1 MSD
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	43		200	219		mg/L		88	70 - 120	5	15

Lab Sample ID: 440-272484-D-1 DU
Matrix: Water
Analysis Batch: 626238

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	43		43.1		mg/L		1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-625669/3
Matrix: Water
Analysis Batch: 625669

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			09/24/20 07:21	1

Lab Sample ID: LCS 440-625669/2
Matrix: Water
Analysis Batch: 625669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	75.8	76.7		mg/L		101	80 - 120

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 440-272199-1 DU
Matrix: Water
Analysis Batch: 625669

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	370		367		mg/L		0.2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-625556/1
Matrix: Water
Analysis Batch: 625556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			09/24/20 10:19	1

Lab Sample ID: LCS 440-625556/2
Matrix: Water
Analysis Batch: 625556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1020		mg/L		102	90 - 110

Lab Sample ID: 440-272175-A-1 DU
Matrix: Water
Analysis Batch: 625556

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2900		2890		mg/L		2	5

Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 440-625862/2-A
Matrix: Water
Analysis Batch: 625865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.10	mg/L		09/28/20 04:00	09/28/20 05:00	1

Lab Sample ID: LCS 440-625862/1-A
Matrix: Water
Analysis Batch: 625865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.50	2.30		mg/L		92	85 - 115

Lab Sample ID: 440-272279-A-1-A MS
Matrix: Water
Analysis Batch: 625865

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 625862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.35	J	2.50	2.70		mg/L		94	75 - 125

Method: SM 4500 NH3 D - Ammonia (Continued)

Lab Sample ID: 440-272279-A-1-B MSD
Matrix: Water
Analysis Batch: 625865

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 625862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.35	J	2.50	2.60		mg/L		90	75 - 125	4	15

Lab Sample ID: 440-272279-B-1-A DU
Matrix: Water
Analysis Batch: 625865

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 625862

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.35	J	0.365	J	mg/L		4	15

Method: SM 5310C - TOC

Lab Sample ID: MB 440-625671/8
Matrix: Water
Analysis Batch: 625671

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			09/24/20 06:18	1

Lab Sample ID: LCS 440-625671/7
Matrix: Water
Analysis Batch: 625671

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	5.00	5.02		mg/L		100	85 - 115

Lab Sample ID: MRL 440-625671/6
Matrix: Water
Analysis Batch: 625671

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.0892	J	mg/L		89	50 - 150

Lab Sample ID: 440-272125-J-1 MS
Matrix: Water
Analysis Batch: 625671

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	2.0		6.00	7.57		mg/L		94	85 - 115

Lab Sample ID: 440-272125-J-1 MSD
Matrix: Water
Analysis Batch: 625671

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	2.0		6.00	7.82		mg/L		98	85 - 115	3	20

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MB 440-625825/7
Matrix: Water
Analysis Batch: 625825

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			09/25/20 06:02	1

Lab Sample ID: LCS 440-625825/6
Matrix: Water
Analysis Batch: 625825

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			5.00	4.79		mg/L		96	85 - 115		

Lab Sample ID: MRL 440-625825/8
Matrix: Water
Analysis Batch: 625825

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			0.100	0.103		mg/L		103	50 - 150		

Lab Sample ID: 440-272258-I-3 MS
Matrix: Water
Analysis Batch: 625825

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.8		5.00	6.59		mg/L		97	85 - 115		

Lab Sample ID: 440-272258-I-3 MSD
Matrix: Water
Analysis Batch: 625825

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.8		5.00	7.11		mg/L		107	85 - 115	8	20

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

GC/MS VOA

Analysis Batch: 97473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	8260B	
440-272199-2	MW-2B	Total/NA	Water	8260B	
440-272199-3	DW-4	Total/NA	Water	8260B	
440-272199-4	Field Blank	Total/NA	Water	8260B	
440-272199-5	Trip Blank	Total/NA	Water	8260B	
MB 570-97473/13	Method Blank	Total/NA	Water	8260B	
LCS 570-97473/9	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-97473/10	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 97163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	3510C	
440-272199-2	MW-2B	Total/NA	Water	3510C	
440-272199-3	DW-4	Total/NA	Water	3510C	
MB 570-97163/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-97163/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-97163/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
440-272205-D-2-A MS	Matrix Spike	Total/NA	Water	3510C	
440-272205-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 97690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-97163/1-A	Method Blank	Total/NA	Water	8270C SIM ID	97163
LCS 570-97163/2-A	Lab Control Sample	Total/NA	Water	8270C SIM ID	97163
LCSD 570-97163/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM ID	97163

Analysis Batch: 97795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	8270C SIM ID	97163
440-272199-2	MW-2B	Total/NA	Water	8270C SIM ID	97163
440-272199-3	DW-4	Total/NA	Water	8270C SIM ID	97163
440-272205-D-2-A MS	Matrix Spike	Total/NA	Water	8270C SIM ID	97163
440-272205-D-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C SIM ID	97163

HPLC/IC

Analysis Batch: 625372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	300.0	
440-272199-2	MW-2B	Total/NA	Water	300.0	
440-272199-3	DW-4	Total/NA	Water	300.0	
440-272199-3	DW-4	Total/NA	Water	300.0	
MB 440-625372/6	Method Blank	Total/NA	Water	300.0	
LCS 440-625372/5	Lab Control Sample	Total/NA	Water	300.0	
440-272199-3 MS	DW-4	Total/NA	Water	300.0	
440-272199-3 MSD	DW-4	Total/NA	Water	300.0	

QC Association Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Metals

Prep Batch: 625927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total Recoverable	Water	3005A	
440-272199-2	MW-2B	Total Recoverable	Water	3005A	
440-272199-3	DW-4	Total Recoverable	Water	3005A	
MB 440-625927/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-625927/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-272255-E-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
440-272255-E-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 626084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total Recoverable	Water	6010B	625927
440-272199-2	MW-2B	Total Recoverable	Water	6010B	625927
440-272199-3	DW-4	Total Recoverable	Water	6010B	625927
MB 440-625927/1-A	Method Blank	Total Recoverable	Water	6010B	625927
LCS 440-625927/2-A	Lab Control Sample	Total Recoverable	Water	6010B	625927
440-272255-E-1-C MS	Matrix Spike	Total Recoverable	Water	6010B	625927
440-272255-E-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	625927

General Chemistry

Analysis Batch: 625556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	SM 2540C	
440-272199-2	MW-2B	Total/NA	Water	SM 2540C	
440-272199-3	DW-4	Total/NA	Water	SM 2540C	
MB 440-625556/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-625556/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-272175-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 625669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	SM 2320B	
440-272199-2	MW-2B	Total/NA	Water	SM 2320B	
440-272199-3	DW-4	Total/NA	Water	SM 2320B	
MB 440-625669/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-625669/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-272199-1 DU	MW-2A	Total/NA	Water	SM 2320B	

Analysis Batch: 625671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	SM 5310C	
440-272199-2	MW-2B	Total/NA	Water	SM 5310C	
MB 440-625671/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-625671/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-625671/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-272125-J-1 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-272125-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

Analysis Batch: 625825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-3	DW-4	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 625825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-625825/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-625825/6	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-625825/8	Lab Control Sample	Total/NA	Water	SM 5310C	
440-272258-I-3 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-272258-I-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

Prep Batch: 625862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	SM 4500 NH3 B	
440-272199-2	MW-2B	Total/NA	Water	SM 4500 NH3 B	
440-272199-3	DW-4	Total/NA	Water	SM 4500 NH3 B	
MB 440-625862/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 440-625862/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
440-272279-A-1-A MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 B	
440-272279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 B	
440-272279-B-1-A DU	Duplicate	Total/NA	Water	SM 4500 NH3 B	

Analysis Batch: 625865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	SM 4500 NH3 D	625862
440-272199-2	MW-2B	Total/NA	Water	SM 4500 NH3 D	625862
440-272199-3	DW-4	Total/NA	Water	SM 4500 NH3 D	625862
MB 440-625862/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 D	625862
LCS 440-625862/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	625862
440-272279-A-1-A MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 D	625862
440-272279-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 D	625862
440-272279-B-1-A DU	Duplicate	Total/NA	Water	SM 4500 NH3 D	625862

Analysis Batch: 626238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-272199-1	MW-2A	Total/NA	Water	410.4	
440-272199-2	MW-2B	Total/NA	Water	410.4	
440-272199-3	DW-4	Total/NA	Water	410.4	
MB 440-626238/4	Method Blank	Total/NA	Water	410.4	
LCS 440-626238/5	Lab Control Sample	Total/NA	Water	410.4	
440-272484-D-1 MS	Matrix Spike	Total/NA	Water	410.4	
440-272484-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	
440-272484-D-1 DU	Duplicate	Total/NA	Water	410.4	

Definitions/Glossary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Qualifiers

GC/MS VOA

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

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

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

Accreditation/Certification Summary

Client: Geo-Logic Associates
Job ID: 440-272199-1
Project/Site: Republic Sunshine Canyon

Laboratory: Eurofins Calscience Irvine

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	State	CA01531	06-30-21
Arizona	State	AZ0671	10-13-20
California	Los Angeles County Sanitation Districts	10256	06-30-21
California	State	2706	06-30-21
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-21
Nevada	State	CA015312021-1	07-31-21
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-21

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-30-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Chain of Custody Record 316176

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Kyle Kelchans	Site Contact: J. Mills	Date: 9-23-20	COC No: 1 of 1 COCs
Company Name: Geo-Logic Assoc.	Tel/Fax: 858-451-1136	Lab Contact: R. Tomaya	Carrier: T/A	Sampler: MC
Address: 11475 W. Bernardo Ct.	Analysis Turnaround Time			For Lab Use Only:
City/State/Zip: S.D., CA. 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client.
Phone: 858-451-1136	TAT if different from Below			Lab Sampling
Fax: 858-451-1087	☐ 2 weeks			
Project Name: Republic Services	☐ 1 week			Job / SDG No..
Site: Sunshine Cyn. L/F	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC's 8260B	SVOC's 8270 1,4-	Dioxane	Total Alkalinity	Ammonia as N	COD (410.4)	Chloride (300.0)	TDS (160.1)	TKN (351.2)	Sample Specific Notes
MW-2A	9/23/20	0845	G	GW	12			X	X	X	X	X	X	X	X	X	
MW-2B		0945		GW	12			X	X	X	X	X	X	X	X	X	
DW-4		10:50		GW	12			X	X	X	X	X	X	X	X	X	
Field Blank		—		Lab H2O	4			X									
Trip Blank		—		"	4			X									

440-272199 Chain of Custody

00 9/23/20

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd 0.9 Corr'd 1.0 Therm ID No.: 12 93

	Company	Date/Time		Company	Date/Time
Relinquished by: Michael Campbell	Geo-Logic Assoc.	9-23-20 15:15	Received by:	EC-IRV	9/23/20 1515
Relinquished by:	EC-IRV	9/23/20 1632	Received by:	Company	Date/Time:
Relinquished by:	Company	Date/Time:	Received in Laboratory by: Angel Arellano	EC-IRV	9/23/20 1632

Page 35 of 40

10/1/2020

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone: 949-261-1022 Fax: 949-260-3297

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Tomova, Rossina D	Carrier Tracking No(s):	COC No: 440-162135.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Rossina.Tomova@Eurofinset.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Calscience LLC		Accreditations Required (See note):		Job #: 440-272199-1
Address: 7440 Lincoln Way, ,	Due Date Requested: 10/6/2020			
City: Garden Grove	TAT Requested (days):			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel) 714-894-7501(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Sunshine Canyon	Project #: 44007851			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL/5030C (MOD) Appendix II +MTBE+TBA+TICS	8260B_LL/5030C_UP (MOD) A+A	8270C_SIM_MS_ID/3510C 1,4-Dioxane - SIM_MS_ID	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-2A (440-272199-1)	9/23/20	08:45 Pacific		Water			X	X	X	8	
MW-2B (440-272199-2)	9/23/20	09:45 Pacific		Water			X	X	X	8	
DW-4 (440-272199-3)	9/23/20	10:50 Pacific		Water			X	X	X	8	
Field Blank (440-272199-4)	9/23/20	00:01 Pacific		Water			X	X		4	
Trip Blank (440-272199-5)	9/23/20	00:01 Pacific		Water			X	X		4	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience 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 Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/24/20 0850	ECLAV		09/24/2020 0850	EC1
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7/2.3 SCG

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272199-1

Login Number: 272199
List Number: 1
Creator: Lagunas, Jorge L

List Source: Eurofins Irvine

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

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272199-1

Login Number: 272199
List Number: 2
Creator: Stratford, Jordan

List Source: Eurofins Calscience
List Creation: 09/24/20 04:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-272199-1

Login Number: 272199
List Number: 3
Creator: Stratford, Jordan

List Source: Eurofins Calscience
List Creation: 09/24/20 04:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272199-1

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE
Lab Sample ID	Client Sample ID	(15-150)
440-272199-1	MW-2A	56
440-272199-2	MW-2B	58
440-272199-3	DW-4	50
440-272205-D-2-A MS	Matrix Spike	56
440-272205-D-2-B MSD	Matrix Spike Duplicate	47
LCS 570-97163/2-A	Lab Control Sample	37
LCSD 570-97163/3-A	Lab Control Sample Dup	55
MB 570-97163/1-A	Method Blank	54

Surrogate Legend

DXE = 1,4-Dioxane-d8

Geo-Logic ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Sunshine Cyn **Project No.:** 5020.1006

Station I.D.: LR-2R **Sampling Date:** 10-5-20
Collected By: mc **Sampling Time:** 9:15
Horiba Model S/N: U-52/W54K4BDP **Duplicate Sample:** YES (NO)

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Greenish Brown	Strong	6.75	10.2	39.7	2.59	26.93	-127

Leachate sampling station conditions: Collected grab sample with new disposable bail bailer

Additional Info/Comments: Sunny, hot

M. Te Campbell, Made copy

26 bottles

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: Sunshine Cyn Leachate **Project No.:** 5020.1006

Station I.D.: Deep Leachate **Sampling Date:** 10-5-20
Collected By: ML **Sampling Time:** 11:45
Horiba Model S/N: 6.52/W5Y1WBDP **Duplicate Sample:** YES NO

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
Drk Brown to Black	Strong	7.53	17.7	OR	3.18	33.34	53

Leachate sampling station conditions: Collected sample from sample port at side of tank labeled Deep Leachate

Additional Info/Comments: Mostly clear hot

Blanks taken at this vet

Mike Campbell

Mike Campbell

Geo-Logic ASSOCIATES

FIELD CALIBRATION DOCUMENTATION FORM

LOCATION (Site/Facility Name) Sunshine Cyn Leachate **PROJECT NAME / NUMBER** 5020.1006

Instrument Make/Model # U-52 w/ Flow Cell						
Date/Time 10-5-20 7:56	**pH**	**Electrical Conductivity (µMhos/cm)** (4.49 mg/Kg)	**Turbidity (NTU)** (0)	**DO (mg/L or %)**	**Guidance Remarks**	**Comments**
Pre. Cal	3.97	4.52	0.0	7.86		
Calibration	4.01	4.49	0.0	8.59		
Calibration Successful? (Y/N)	yes				enter YES or NO	
Satifies Protocol?	yes				Did calibration meet criteria in the sampling protocol? (Y or N)	
Calibration by	[signature]				Signature or initials	[signature]
Physical Condition of Unit		Good				

Chain of Custody Record

eurofins | Environment Testing TestAmerica

TAL-8210

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Kyle Welchens	Site Contact: Josh	Date: 10-5-20	COC No:
Company Name: Geo-Logic Associates	Tel/Email: kwelchens@geo-logic.com	Lab Contact: Rossini	Carrier: Eurofins	1 of 1 COCs
Address: 2777 E Guasti Rd Suite 1	Analysis Turnaround Time			Sampler: M. Campbell
City/State/Zip: Ontario, CA 91761	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 909-626-2282	TAT if different from Below _____			Walk-in Client:
Fax: 909-626-1233	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Republic Services Leachate Sampling				Job / SDG No.: 500-100b
Site: Sunshine Canyon Landfill				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 8260B Appendix IX Target Analytes	EPA 8260B Target Analytes	EPA 8260B Target Analytes	EPA 3351 - Cyanide	EPA 3762 541 - do	EPA 8270C Appendix IX Target Analytes	EPA 8270C Base/Neutrals Only	EPA 8082 - PCBs (AROCLOR)	EPA 6010B - Metals (ICP)	EPA 7470A - Mercury (CVAA)	COD, BOD	Ammonia, TKN, TDS	Sample Specific Notes:
LR-2R	10-5-20	9:15	G	Leachate	26	N	N	X	X	X	X	X	X	X	X	X	X	X	X	
Deep Leachate		11:45	G	Leachate	26			X	X	X	X	X	X	X	X	X	X	X	X	
Field Blank		—	G	Lab H2O	4			X	X											
Trip Blank		—	G	Lab H2O	4			X	X											

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Geo-Logic Associates	10-5-20 14:15		EC-IEN	10/5/20 1415
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins Calscience Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

Laboratory Job ID: 440-272708-1
Client Project/Site: Republic Sunshine Canyon

For:
Geo-Logic Associates
11415 West Bernardo Court
Suite 200
San Diego, California 92127

Attn: Kyle Welchans

Authorized for release by:
10/27/2020 2:43:15 PM

Rossina Tomova, Project Manager I
(949)260-3276
Rossina.Tomova@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: 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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Sample Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272708-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-272708-1	LR-2R	Water	10/05/20 09:15	10/05/20 16:52	
440-272708-2	Deep Leachate	Water	10/05/20 11:45	10/05/20 16:52	
440-272708-3	Field Blank	Water	10/05/20 00:01	10/05/20 16:52	
440-272708-4	Trip Blank	Water	10/05/20 00:01	10/05/20 16:52	

Job ID: 440-272708-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-272708-1

Comments
No additional comments.

Receipt
The samples were received on 10/5/2020 4:52 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 1.0º C.

GC/MS VOA
Method 8260B: The method blank for analytical batch 570-100980 contained Bromodichloromethane above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method 8260B: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: LR-2R (440-272708-1) and Deep Leachate (440-272708-2). Elevated reporting limits (RLs) are provided.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 570-100980.

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

GC/MS Semi VOA
Method 8270C: The following analyte(s) recovered outside control limits for the LCS/LCSD associated with preparation batch 570-99867 and analytical batch 570-100088: Kepone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270C: Surrogate recovery for the following sample was outside control limits: Deep Leachate (440-272708-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C LL: Surrogate recovery for the following sample was outside control limits: Deep Leachate (440-272708-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C LL: The laboratory control sample (LCS) for preparation batch 570-100608 and analytical batch 570-101135 recovered low outside acceptance limits for Benzoic acid, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene, Hexachloroethane, 3 & 4 Methylphenol, Hexachlorobutadiene and N-Nitrosodimethylamine. The results for these analytes could be biased low.

Method 8270C SIM ID: Surrogate recovery for the following sample was outside control limits: Deep Leachate (440-272708-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270C SIM ID: Results for sample LR-2R (440-272708-1) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

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

HPLC/IC
Method 300.0: The following sample was diluted due to the nature of the sample matrix: LR-2R (440-272708-1). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Job ID: 440-272708-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

. Method 8141A: The continuing calibration verification (CCV) associated with batch 570-100729 recovered above the upper control limit for Demeton, Total, Demeton-O, Demeton-S, Famphur and Thionazin. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8141A: LCS/LCSD % RPD for preparation batch 570-100450 and analytical batch 570-100729 recovered outside control limits. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data results were ND and the original data has been reported: LR-2R (440-272708-1) and Deep Leachate (440-272708-2)

Method 8151A: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 570-100935 and analytical batch 570-101752 exceeded control limits for the following analyte(s): Dinoseb, Note that this analyte is a known poor performer when analyzed using this method.

Method 8151A: Surrogate recovery for the following sample was outside the upper control limit: Deep Leachate (440-272708-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 3005A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: LR-2R (440-272708-1). The sample was preserved to the appropriate pH in the laboratory. Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Methods 3005A, 7470A: The following sample was diluted due to the nature of the sample matrix: Deep Leachate (440-272708-2). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method Distill/CN: The reference method requires samples to be preserved to a pH of >12. The following sample was received with insufficient preservation at a pH of 11: Deep Leachate (440-272708-2). The sample(s) was preserved to the appropriate pH in the laboratory by adding 50% sodium hydroxide.

Method 410.4: The reference method requires samples to be preserved to a pH of < 2. The following sample was received with insufficient preservation at a pH of 3: Deep Leachate (440-272708-2). The sample(s) was preserved to the appropriate pH in the laboratory.

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-100462 and analytical batch 570-100460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-99867. LCS/LCSD was performed to meet QC requirements.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-99960. LCS/LCSD was performed to meet QC requirements.

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume: Deep Leachate (440-272708-2). The reporting limits (RLs) are elevated proportionately.Final volume was changed from 2ml to 10ml due to dirty sample.

Method 3510C: The following sample was diluted due to the nature of the sample matrix: Deep Leachate (440-272708-2). Elevated reporting limits (RLs) are provided.

Job ID: 440-272708-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-100450. LCS/LCSD was performed to meet QC requirements.

Method 3510C: The following sample was diluted due to the nature of the sample matrix: Deep Leachate (440-272708-2). Elevated reporting limits (RLs) are provided.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-100608. LCS/LCSD was performed to meet QC requirements.

Method 3510C: The following sample formed emulsions during the extraction procedure: Deep Leachate (440-272708-2). The emulsions were broken up using a centrifuge and Sodium Sulfate.

Method 3510C: Due to the matrix, the following sample could not be concentrated to the final method required volume: Deep Leachate (440-272708-2). The reporting limits (RLs) are elevated proportionately. Final volume was changed from 1ml to 2ml.

Method 3510C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: Deep Leachate (440-272708-2). The reporting limits (RLs) have been adjusted proportionately.

Method 3510C: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: Deep Leachate (440-272708-2). The reporting limits (RLs) have been adjusted proportionately.

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

VOA Prep

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

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272708-1

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		8.0	0.61	ug/L			10/11/20 09:04	8
1,1,1,2-Tetrachloroethane	ND		4.0	0.56	ug/L			10/11/20 09:04	8
Acrolein	ND		80	4.7	ug/L			10/11/20 09:04	8
Acrylonitrile	ND		40	4.6	ug/L			10/11/20 09:04	8
1,1,1-Trichloroethane	ND		4.0	0.67	ug/L			10/11/20 09:04	8
1,1,2,2-Tetrachloroethane	ND		4.0	0.69	ug/L			10/11/20 09:04	8
1,1,2-Trichloroethane	ND		4.0	0.55	ug/L			10/11/20 09:04	8
1,1-Dichloroethane	ND		4.0	0.48	ug/L			10/11/20 09:04	8
1,1-Dichloroethene	ND		4.0	0.82	ug/L			10/11/20 09:04	8
1,1-Dichloropropene	ND	*	4.0	0.56	ug/L			10/11/20 09:04	8
1,2,4-Trichlorobenzene	ND		4.0	0.72	ug/L			10/11/20 09:04	8
1,2-Dibromo-3-Chloropropane	ND		40	4.1	ug/L			10/11/20 09:04	8
1,2-Dichlorobenzene	**1.2**	**J**	4.0	0.66	ug/L			10/11/20 09:04	8
1,2-Dichloroethane	ND		4.0	0.60	ug/L			10/11/20 09:04	8
1,2-Dichloropropane	ND		4.0	0.79	ug/L			10/11/20 09:04	8
1,3-Dichlorobenzene	ND		4.0	0.78	ug/L			10/11/20 09:04	8
1,3-Dichloropropane	ND		8.0	0.66	ug/L			10/11/20 09:04	8
1,4-Dichlorobenzene	**5.2**		4.0	0.59	ug/L			10/11/20 09:04	8
2,2-Dichloropropane	ND	*	8.0	3.0	ug/L			10/11/20 09:04	8
2-Chloro-1,3-butadiene	ND		80	0.76	ug/L			10/11/20 09:04	8
2-Hexanone	ND		80	4.0	ug/L			10/11/20 09:04	8
Acetone	ND		80	32	ug/L			10/11/20 09:04	8
Acetonitrile	ND		80	16	ug/L			10/11/20 09:04	8
Benzene	**4.5**		4.0	0.57	ug/L			10/11/20 09:04	8
Allyl chloride	ND		16	4.4	ug/L			10/11/20 09:04	8
Bromoform	ND		4.0	0.77	ug/L			10/11/20 09:04	8
Bromomethane	ND		16	7.9	ug/L			10/11/20 09:04	8
Carbon disulfide	ND		80	3.1	ug/L			10/11/20 09:04	8
Carbon tetrachloride	ND		4.0	0.45	ug/L			10/11/20 09:04	8
Chlorobenzene	**18**		4.0	0.70	ug/L			10/11/20 09:04	8
Bromochloromethane	ND		8.0	0.65	ug/L			10/11/20 09:04	8
Chloroethane	ND		4.0	0.94	ug/L			10/11/20 09:04	8
Chloroform	ND		4.0	0.50	ug/L			10/11/20 09:04	8
Chloromethane	ND		40	16	ug/L			10/11/20 09:04	8
cis-1,2-Dichloroethene	ND		4.0	0.87	ug/L			10/11/20 09:04	8
cis-1,3-Dichloropropene	ND		4.0	0.76	ug/L			10/11/20 09:04	8
Dibromochloromethane	ND		4.0	0.51	ug/L			10/11/20 09:04	8
Dibromomethane	ND		4.0	1.0	ug/L			10/11/20 09:04	8
Bromodichloromethane	ND		4.0	0.42	ug/L			10/11/20 09:04	8
Dichlorodifluoromethane	ND		8.0	0.79	ug/L			10/11/20 09:04	8
Ethyl methacrylate	ND		16	0.45	ug/L			10/11/20 09:04	8
Ethylbenzene	ND		4.0	0.70	ug/L			10/11/20 09:04	8
Iodomethane	ND		200	110	ug/L			10/11/20 09:04	8
Isobutyl alcohol	ND		80	15	ug/L			10/11/20 09:04	8
m,p-Xylene	ND		8.0	1.2	ug/L			10/11/20 09:04	8
Methylacrylonitrile	ND		16	3.4	ug/L			10/11/20 09:04	8
Methyl methacrylate	ND		16	3.9	ug/L			10/11/20 09:04	8
Methylene Chloride	ND		8.0	0.34	ug/L			10/11/20 09:04	8
Methyl tert-butyl ether	**0.58**	**J**	4.0	0.53	ug/L			10/11/20 09:04	8

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**16**		8.0	0.78	ug/L			10/11/20 09:04	8
o-Xylene	**1.1**	**J**	4.0	0.69	ug/L			10/11/20 09:04	8
Propionitrile	ND		40	8.2	ug/L			10/11/20 09:04	8
Styrene	ND		4.0	0.47	ug/L			10/11/20 09:04	8
t-Butanol	ND		80	32	ug/L			10/11/20 09:04	8
Tetrachloroethene	ND		4.0	1.9	ug/L			10/11/20 09:04	8
Tetrahydrofuran	**110**		16	4.5	ug/L			10/11/20 09:04	8
Toluene	**0.78**	**J**	4.0	0.74	ug/L			10/11/20 09:04	8
trans-1,2-Dichloroethene	ND		4.0	0.65	ug/L			10/11/20 09:04	8
trans-1,3-Dichloropropene	ND		4.0	0.43	ug/L			10/11/20 09:04	8
trans-1,4-Dichloro-2-butene	ND		16	1.1	ug/L			10/11/20 09:04	8
Trichloroethene	ND		4.0	0.81	ug/L			10/11/20 09:04	8
Trichlorofluoromethane	ND		4.0	0.83	ug/L			10/11/20 09:04	8
Vinyl acetate	ND		40	5.6	ug/L			10/11/20 09:04	8
Vinyl chloride	ND		4.0	0.62	ug/L			10/11/20 09:04	8
1,2-Dibromoethane (EDB)	ND		4.0	0.47	ug/L			10/11/20 09:04	8
2-Butanone (MEK)	ND		40	3.7	ug/L			10/11/20 09:04	8
4-Methyl-2-pentanone (MIBK)	ND		40	3.3	ug/L			10/11/20 09:04	8

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*130*	*T J*	*ug/L*		*1.68*			*10/11/20 09:04*	*8*
Unknown	*460*	*T J*	*ug/L*		*1.84*			*10/11/20 09:04*	*8*
Unknown	*190*	*T J*	*ug/L*		*1.99*			*10/11/20 09:04*	*8*
Unknown	*220*	*T J*	*ug/L*		*2.15*			*10/11/20 09:04*	*8*
Ethane, methoxy-	*450*	*T J N*	*ug/L*		*2.30*	*540-67-0*		*10/11/20 09:04*	*8*
Ethanol	*200*	*J*	*ug/L*		*3.02*	*64-17-5*		*10/11/20 09:04*	*8*
Unknown	*140*	*T J*	*ug/L*		*3.05*			*10/11/20 09:04*	*8*
Unknown	*140*	*T J*	*ug/L*		*3.24*			*10/11/20 09:04*	*8*
Silane, (2-methoxyethyl)trimethyl-	*1800*	*T J N*	*ug/L*		*4.42*	*18173-63-2*		*10/11/20 09:04*	*8*
Propanal, 2-methyl-	*340*	*T J N*	*ug/L*		*4.91*	*78-84-2*		*10/11/20 09:04*	*8*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*10/11/20 09:04*	*8*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*10/11/20 09:04*	*8*
Dibromofluoromethane (Surr)	*102*		*80 - 127*		*10/11/20 09:04*	*8*
Dibromofluoromethane (Surr)	*102*		*80 - 127*		*10/11/20 09:04*	*8*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/11/20 09:04*	*8*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*10/11/20 09:04*	*8*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/11/20 09:04*	*8*
4-Bromofluorobenzene (Surr)	*95*		*68 - 120*		*10/11/20 09:04*	*8*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.3	0.81	ug/L		10/09/20 07:47	10/12/20 19:04	1
1,2-Dichlorobenzene	**0.87**	**J ***	5.3	0.80	ug/L		10/09/20 07:47	10/12/20 19:04	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		5.3	0.45	ug/L		10/09/20 07:47	10/12/20 19:04	1
1,3-Dichlorobenzene	ND	*	5.3	0.83	ug/L		10/09/20 07:47	10/12/20 19:04	1
1,4-Dichlorobenzene	ND		5.3	0.87	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,4,5-Trichlorophenol	ND		5.3	1.0	ug/L		10/09/20 07:47	10/12/20 19:04	1

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		5.3	0.77	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,4-Dichlorophenol	ND		5.3	0.89	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,4-Dimethylphenol	ND		5.3	0.45	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,4-Dinitrophenol	ND		26	10	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,4-Dinitrotoluene	ND		5.3	0.94	ug/L		10/09/20 07:47	10/12/20 19:04	1
3 & 4 Methylphenol	ND	*	5.3	1.5	ug/L		10/09/20 07:47	10/12/20 19:04	1
2,6-Dinitrotoluene	ND		5.3	0.90	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Chloronaphthalene	ND		5.3	0.74	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Chlorophenol	ND		5.3	0.89	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Methylnaphthalene	ND		5.3	0.68	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Methylphenol	ND		5.3	0.69	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Nitroaniline	ND		5.3	1.1	ug/L		10/09/20 07:47	10/12/20 19:04	1
2-Nitrophenol	ND		5.3	1.4	ug/L		10/09/20 07:47	10/12/20 19:04	1
3,3'-Dichlorobenzidine	ND		13	4.4	ug/L		10/09/20 07:47	10/12/20 19:04	1
3-Nitroaniline	ND		5.3	0.79	ug/L		10/09/20 07:47	10/12/20 19:04	1
4,6-Dinitro-2-methylphenol	ND		26	11	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Bromophenyl phenyl ether	ND		5.3	0.68	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Chloro-3-methylphenol	ND		5.3	0.83	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Chloroaniline	ND		5.3	0.84	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Chlorophenyl phenyl ether	ND		5.3	0.77	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Nitroaniline	ND		5.3	0.52	ug/L		10/09/20 07:47	10/12/20 19:04	1
4-Nitrophenol	ND		5.3	0.84	ug/L		10/09/20 07:47	10/12/20 19:04	1
Acenaphthene	ND		5.3	0.74	ug/L		10/09/20 07:47	10/12/20 19:04	1
Acenaphthylene	ND		5.3	0.82	ug/L		10/09/20 07:47	10/12/20 19:04	1
Aniline	ND		5.3	0.63	ug/L		10/09/20 07:47	10/12/20 19:04	1
Anthracene	ND		5.3	0.66	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzidine	ND		26	15	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzo[a]anthracene	ND		5.3	0.83	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzo[a]pyrene	ND		5.3	1.1	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzo[b]fluoranthene	ND		5.3	1.1	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzo[g,h,i]perylene	ND		5.3	1.2	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzo[k]fluoranthene	ND		5.3	1.0	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzoic acid	ND	*	26	13	ug/L		10/09/20 07:47	10/12/20 19:04	1
Benzyl alcohol	ND		5.3	1.0	ug/L		10/09/20 07:47	10/12/20 19:04	1
Bis(2-chloroethoxy)methane	ND		5.3	0.81	ug/L		10/09/20 07:47	10/12/20 19:04	1
Bis(2-chloroethyl)ether	ND		13	0.77	ug/L		10/09/20 07:47	10/12/20 19:04	1
Bis(2-ethylhexyl) phthalate	ND		5.3	2.0	ug/L		10/09/20 07:47	10/12/20 19:04	1
Butyl benzyl phthalate	ND		5.3	1.8	ug/L		10/09/20 07:47	10/12/20 19:04	1
Chrysene	ND		5.3	0.77	ug/L		10/09/20 07:47	10/12/20 19:04	1
Dibenz(a,h)anthracene	ND		5.3	1.4	ug/L		10/09/20 07:47	10/12/20 19:04	1
Dibenzofuran	ND		5.3	0.66	ug/L		10/09/20 07:47	10/12/20 19:04	1
Diethyl phthalate	ND		5.3	0.74	ug/L		10/09/20 07:47	10/12/20 19:04	1
Dimethyl phthalate	ND		5.3	0.62	ug/L		10/09/20 07:47	10/12/20 19:04	1
Fluoranthene	ND		5.3	0.79	ug/L		10/09/20 07:47	10/12/20 19:04	1
Fluorene	ND		5.3	0.84	ug/L		10/09/20 07:47	10/12/20 19:04	1
Hexachlorobenzene	ND		5.3	0.48	ug/L		10/09/20 07:47	10/12/20 19:04	1
Hexachlorobutadiene	ND	*	5.3	1.1	ug/L		10/09/20 07:47	10/12/20 19:04	1
Hexachlorocyclopentadiene	ND		13	5.9	ug/L		10/09/20 07:47	10/12/20 19:04	1
Hexachloroethane	ND	*	5.3	1.1	ug/L		10/09/20 07:47	10/12/20 19:04	1

Client Sample ID: LR-2R

Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		5.3	1.3	ug/L		10/09/20 07:47	10/12/20 19:04	1
Isophorone	ND		5.3	0.89	ug/L		10/09/20 07:47	10/12/20 19:04	1
Naphthalene	**13**		5.3	0.80	ug/L		10/09/20 07:47	10/12/20 19:04	1
Nitrobenzene	ND		13	0.74	ug/L		10/09/20 07:47	10/12/20 19:04	1
N-Nitrosodimethylamine	ND	*	5.3	0.54	ug/L		10/09/20 07:47	10/12/20 19:04	1
N-Nitrosodi-n-propylamine	ND		5.3	1.0	ug/L		10/09/20 07:47	10/12/20 19:04	1
N-Nitrosodiphenylamine	ND		5.3	0.78	ug/L		10/09/20 07:47	10/12/20 19:04	1
Pentachlorophenol	ND		5.3	5.2	ug/L		10/09/20 07:47	10/12/20 19:04	1
Phenanthrene	ND		5.3	0.77	ug/L		10/09/20 07:47	10/12/20 19:04	1
Phenol	ND		5.3	0.29	ug/L		10/09/20 07:47	10/12/20 19:04	1
bis (2-chloroisopropyl) ether	ND		5.3	1.0	ug/L		10/09/20 07:47	10/12/20 19:04	1
Di-n-butyl phthalate	ND		5.3	2.4	ug/L		10/09/20 07:47	10/12/20 19:04	1
Di-n-octyl phthalate	ND		5.3	2.3	ug/L		10/09/20 07:47	10/12/20 19:04	1
Pyrene	ND		5.3	0.89	ug/L		10/09/20 07:47	10/12/20 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*32 - 143*	*10/09/20 07:47*	*10/12/20 19:04*	*1*
2-Fluorophenol (Surr)	*52*		*15 - 138*	*10/09/20 07:47*	*10/12/20 19:04*	*1*
Nitrobenzene-d5 (Surr)	*70*		*56 - 123*	*10/09/20 07:47*	*10/12/20 19:04*	*1*
Phenol-d6 (Surr)	*37*		*17 - 141*	*10/09/20 07:47*	*10/12/20 19:04*	*1*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**320**		5.0	1.8	ug/L		10/07/20 07:48	10/08/20 20:31	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*41*	**3*	*15 - 150*	*10/07/20 07:48*	*10/08/20 20:31*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*	**3*	*46 - 128*	*10/07/20 07:48*	*10/08/20 20:31*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
N-Nitrosomethylethylamine	ND		10	2.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
N-Nitrosopiperidine	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
1,4-phenylenediamine	ND		51	1.6	ug/L		10/06/20 17:03	10/07/20 18:03	1
3,3'-Dimethylbenzidine	ND		100	0.87	ug/L		10/06/20 17:03	10/07/20 18:03	1
Isosafrole	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
alpha,alpha-Dimethyl phenethylamine	ND		100	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
Diphenylamine	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 18:03	1
o,o',o''-Triethylphosphorothioate	ND		51	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
1,4-Naphthoquinone	ND		21	0.78	ug/L		10/06/20 17:03	10/07/20 18:03	1
1-Naphthylamine	ND		21	0.81	ug/L		10/06/20 17:03	10/07/20 18:03	1
Kepone	ND	*	51	2.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
Diallate	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
Pronamide	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 18:03	1
Phorate	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
Isodrin	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
Ethyl 4,4'-Dichlorobenzilate	ND		51	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
2-Acetylaminofluorene	ND		21	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 18:03	1
7,12-Dimethylbenz(a)anthracene	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
2,3,4,6-Tetrachlorophenol	ND		51	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
Dimethyl aminoazobenzene	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
Pentachlorobenzene	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 18:03	1
Phenacetin	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 18:03	1
Ethyl methanesulfonate	ND		21	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
Methyl methanesulfonate	ND		21	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
Pentachloronitrobenzene	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
2,6-Dichlorophenol	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 18:03	1
2-Naphthylamine	ND		51	0.83	ug/L		10/06/20 17:03	10/07/20 18:03	1
Methapyrilene	ND		51	3.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
N-Nitrosodi-n-butylamine	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 18:03	1
4-Aminobiphenyl	ND		21	0.58	ug/L		10/06/20 17:03	10/07/20 18:03	1
N-Nitrosopyrrolidine	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 18:03	1
Safrole, Total	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 18:03	1
o-Toluidine	ND		10	0.54	ug/L		10/06/20 17:03	10/07/20 18:03	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 18:03	1
5-Nitro-o-toluidine	ND		10	0.88	ug/L		10/06/20 17:03	10/07/20 18:03	1
3-Methylcholanthrene	ND		21	1.0	ug/L		10/06/20 17:03	10/07/20 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*62*		*15 - 138*	*10/06/20 17:03*	*10/07/20 18:03*	*1*
Nitrobenzene-d5 (Surr)	*64*		*56 - 123*	*10/06/20 17:03*	*10/07/20 18:03*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*32 - 143*	*10/06/20 17:03*	*10/07/20 18:03*	*1*
Phenol-d6 (Surr)	*40*		*17 - 141*	*10/06/20 17:03*	*10/07/20 18:03*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.020	0.0081	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endosulfan sulfate	ND		0.051	0.014	ug/L		10/07/20 07:27	10/09/20 05:21	1
Aldrin	ND		0.051	0.011	ug/L		10/07/20 07:27	10/09/20 05:21	1
alpha-BHC	ND		0.020	0.0097	ug/L		10/07/20 07:27	10/09/20 05:21	1
beta-BHC	ND		0.020	0.0076	ug/L		10/07/20 07:27	10/09/20 05:21	1
delta-BHC	ND		0.020	0.0076	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endosulfan II	ND		0.051	0.011	ug/L		10/07/20 07:27	10/09/20 05:21	1
4,4'-DDT	ND		0.051	0.026	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endrin ketone	ND		0.051	0.013	ug/L		10/07/20 07:27	10/09/20 05:21	1
Chlordane (technical)	ND		0.10	0.037	ug/L		10/07/20 07:27	10/09/20 05:21	1
gamma-BHC (Lindane)	ND		0.020	0.0071	ug/L		10/07/20 07:27	10/09/20 05:21	1
Dieldrin	ND		0.051	0.012	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endrin	ND		0.020	0.010	ug/L		10/07/20 07:27	10/09/20 05:21	1
Methoxychlor	ND		0.051	0.020	ug/L		10/07/20 07:27	10/09/20 05:21	1
4,4'-DDD	ND		0.051	0.014	ug/L		10/07/20 07:27	10/09/20 05:21	1
4,4'-DDE	ND		0.020	0.0087	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endrin aldehyde	ND		0.10	0.033	ug/L		10/07/20 07:27	10/09/20 05:21	1
Heptachlor	ND		0.020	0.0076	ug/L		10/07/20 07:27	10/09/20 05:21	1
Toxaphene	ND		0.31	0.15	ug/L		10/07/20 07:27	10/09/20 05:21	1
Endosulfan I	ND		0.051	0.012	ug/L		10/07/20 07:27	10/09/20 05:21	1

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*129*		*20 - 139*	*10/07/20 07:27*	*10/09/20 05:21*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*20 - 154*	*10/07/20 07:27*	*10/09/20 05:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.51	0.035	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1221	ND		0.51	0.19	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1232	ND		0.51	0.059	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1242	ND		0.51	0.046	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1248	ND		0.51	0.055	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1254	ND		0.51	0.091	ug/L		10/07/20 07:27	10/08/20 20:24	1
Aroclor 1260	ND		0.51	0.038	ug/L		10/07/20 07:27	10/08/20 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 154*	*10/07/20 07:27*	*10/08/20 20:24*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND	*1	0.20	0.11	ug/L		10/08/20 14:52	10/09/20 18:39	1
Bolstar	ND	*1	0.20	0.036	ug/L		10/08/20 14:52	10/09/20 18:39	1
Chlorpyrifos	ND	*1	0.20	0.063	ug/L		10/08/20 14:52	10/09/20 18:39	1
Coumaphos	ND	*1	0.20	0.072	ug/L		10/08/20 14:52	10/09/20 18:39	1
Demeton, Total	ND	*1	0.80	0.21	ug/L		10/08/20 14:52	10/09/20 18:39	1
Diazinon	ND	*1	0.20	0.10	ug/L		10/08/20 14:52	10/09/20 18:39	1
Dichlorvos	ND	*1	0.20	0.14	ug/L		10/08/20 14:52	10/09/20 18:39	1
Dimethoate	ND		0.20	0.10	ug/L		10/08/20 14:52	10/09/20 18:39	1
Disulfoton	ND	*1	0.20	0.097	ug/L		10/08/20 14:52	10/09/20 18:39	1
EPN	ND		0.20	0.096	ug/L		10/08/20 14:52	10/09/20 18:39	1
Famphur	ND		0.20	0.092	ug/L		10/08/20 14:52	10/09/20 18:39	1
Fensulfothion	ND	*1	0.40	0.16	ug/L		10/08/20 14:52	10/09/20 18:39	1
Fenthion	ND	*1	0.20	0.036	ug/L		10/08/20 14:52	10/09/20 18:39	1
Malathion	ND		0.40	0.21	ug/L		10/08/20 14:52	10/09/20 18:39	1
Methyl parathion	ND	*1	0.20	0.063	ug/L		10/08/20 14:52	10/09/20 18:39	1
Mevinphos	ND	*1	0.20	0.13	ug/L		10/08/20 14:52	10/09/20 18:39	1
Parathion	ND		0.20	0.098	ug/L		10/08/20 14:52	10/09/20 18:39	1
Phorate	ND	*1	0.40	0.20	ug/L		10/08/20 14:52	10/09/20 18:39	1
Ronnel	ND	*1	0.20	0.065	ug/L		10/08/20 14:52	10/09/20 18:39	1
Stirophos	ND	*1	0.20	0.13	ug/L		10/08/20 14:52	10/09/20 18:39	1
Sulfotepp	ND		0.40	0.13	ug/L		10/08/20 14:52	10/09/20 18:39	1
Tokuthion	ND	*1	0.20	0.063	ug/L		10/08/20 14:52	10/09/20 18:39	1
Trichloronate	ND	*1	0.20	0.059	ug/L		10/08/20 14:52	10/09/20 18:39	1
Mocap	ND	*1	0.20	0.077	ug/L		10/08/20 14:52	10/09/20 18:39	1
Thionazin	ND		0.20	0.14	ug/L		10/08/20 14:52	10/09/20 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tributyl phosphate	*54*		*30 - 130*	*10/08/20 14:52*	*10/09/20 18:39*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.20	ug/L		10/10/20 10:42	10/15/20 11:42	1
2,4-D	ND		4.8	0.81	ug/L		10/10/20 10:42	10/15/20 11:42	1

Client Sample ID: LR-2R
Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1
Matrix: Water

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		0.48	0.38	ug/L		10/10/20 10:42	10/15/20 11:42	1
Dalapon	ND		12	4.5	ug/L		10/10/20 10:42	10/15/20 11:42	1
2,4-DB	ND		4.8	3.4	ug/L		10/10/20 10:42	10/15/20 11:42	1
Dicamba	ND		0.48	0.13	ug/L		10/10/20 10:42	10/15/20 11:42	1
Dichlorprop	ND		4.8	0.50	ug/L		10/10/20 10:42	10/15/20 11:42	1
Dinoseb	ND		2.4	2.1	ug/L		10/10/20 10:42	10/15/20 11:42	1
MCPA	ND		480	150	ug/L		10/10/20 10:42	10/15/20 11:42	1
MCPP	ND		480	77	ug/L		10/10/20 10:42	10/15/20 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*31*	*p*	*20 - 147*	*10/10/20 10:42*	*10/15/20 11:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		10	5.0	mg/L			10/05/20 20:32	20

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0060	mg/L		10/08/20 13:30	10/09/20 12:05	1
Arsenic	ND		0.010	0.0089	mg/L		10/08/20 13:30	10/09/20 12:05	1
Barium	**0.72**		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Beryllium	ND		0.0020	0.0010	mg/L		10/08/20 13:30	10/09/20 12:05	1
Cadmium	ND		0.0050	0.0025	mg/L		10/08/20 13:30	10/09/20 12:05	1
Chromium	**0.011**		0.0050	0.0025	mg/L		10/08/20 13:30	10/09/20 12:05	1
Cobalt	**0.019**		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Copper	**0.0052**	**J**	0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Lead	ND		0.0050	0.0038	mg/L		10/08/20 13:30	10/09/20 12:05	1
Nickel	**0.032**		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Selenium	ND		0.010	0.0087	mg/L		10/08/20 13:30	10/09/20 12:05	1
Silver	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Thallium	ND		0.010	0.0080	mg/L		10/08/20 13:30	10/09/20 12:05	1
Tin	ND		0.10	0.050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Vanadium	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:05	1
Zinc	**0.034**		0.020	0.012	mg/L		10/08/20 13:30	10/09/20 12:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		10/09/20 14:04	10/12/20 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**390**		20	10	mg/L			10/09/20 13:40	100
Total Kjeldahl Nitrogen	**260**		5.0	1.2	mg/L		10/08/20 10:00	10/08/20 14:28	25
Chemical Oxygen Demand	**1100**		40	20	mg/L			10/09/20 10:45	2
Total Dissolved Solids	**5300**		100	50	mg/L			10/06/20 10:35	1
Total Suspended Solids	**140**		20	10	mg/L			10/06/20 14:49	1
Cyanide, Total	ND		0.025	0.013	mg/L		10/07/20 10:52	10/07/20 14:55	1
Total Sulfide	**0.52**		0.050	0.027	mg/L			10/08/20 17:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.4**	**HF**	0.1	0.1	SU			10/06/20 06:11	1

Client Sample ID: LR-2R

Lab Sample ID: 440-272708-1

Date Collected: 10/05/20 09:15

Matrix: Water

Date Received: 10/05/20 16:52

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	20		20	20	mg/L			10/06/20 08:23	1

Client Sample ID: Deep Leachate

Lab Sample ID: 440-272708-2

Date Collected: 10/05/20 11:45

Matrix: Water

Date Received: 10/05/20 16:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		400	31	ug/L			10/11/20 09:32	400
1,1,1,2-Tetrachloroethane	ND		200	28	ug/L			10/11/20 09:32	400
Acrolein	ND		4000	240	ug/L			10/11/20 09:32	400
Acrylonitrile	ND		2000	230	ug/L			10/11/20 09:32	400
1,1,1-Trichloroethane	ND		200	34	ug/L			10/11/20 09:32	400
1,1,2,2-Tetrachloroethane	ND		200	35	ug/L			10/11/20 09:32	400
1,1,2-Trichloroethane	ND		200	28	ug/L			10/11/20 09:32	400
1,1-Dichloroethane	ND		200	24	ug/L			10/11/20 09:32	400
1,1-Dichloroethene	ND		200	41	ug/L			10/11/20 09:32	400
1,1-Dichloropropene	ND	*	200	28	ug/L			10/11/20 09:32	400
1,2,4-Trichlorobenzene	ND		200	36	ug/L			10/11/20 09:32	400
1,2-Dibromo-3-Chloropropane	ND		2000	210	ug/L			10/11/20 09:32	400
1,2-Dichlorobenzene	ND		200	33	ug/L			10/11/20 09:32	400
1,2-Dichloroethane	ND		200	30	ug/L			10/11/20 09:32	400
1,2-Dichloropropane	ND		200	39	ug/L			10/11/20 09:32	400
1,3-Dichlorobenzene	ND		200	39	ug/L			10/11/20 09:32	400
1,3-Dichloropropane	ND		400	33	ug/L			10/11/20 09:32	400
1,4-Dichlorobenzene	ND		200	29	ug/L			10/11/20 09:32	400
2,2-Dichloropropane	ND	*	400	150	ug/L			10/11/20 09:32	400
2-Chloro-1,3-butadiene	ND		4000	38	ug/L			10/11/20 09:32	400
2-Hexanone	ND		4000	200	ug/L			10/11/20 09:32	400
Acetone	15000		4000	1600	ug/L			10/11/20 09:32	400
Acetonitrile	ND		4000	800	ug/L			10/11/20 09:32	400
Benzene	ND		200	29	ug/L			10/11/20 09:32	400
Allyl chloride	ND		800	220	ug/L			10/11/20 09:32	400
Bromoform	ND		200	39	ug/L			10/11/20 09:32	400
Bromomethane	ND		800	400	ug/L			10/11/20 09:32	400
Carbon disulfide	ND		4000	150	ug/L			10/11/20 09:32	400
Carbon tetrachloride	ND		200	23	ug/L			10/11/20 09:32	400
Chlorobenzene	ND		200	35	ug/L			10/11/20 09:32	400
Bromochloromethane	ND		400	33	ug/L			10/11/20 09:32	400
Chloroethane	ND		200	47	ug/L			10/11/20 09:32	400
Chloroform	ND		200	25	ug/L			10/11/20 09:32	400
Chloromethane	ND		2000	780	ug/L			10/11/20 09:32	400
cis-1,2-Dichloroethene	ND		200	43	ug/L			10/11/20 09:32	400
cis-1,3-Dichloropropene	ND		200	38	ug/L			10/11/20 09:32	400
Dibromochloromethane	ND		200	25	ug/L			10/11/20 09:32	400
Dibromomethane	ND		200	50	ug/L			10/11/20 09:32	400
Bromodichloromethane	ND		200	21	ug/L			10/11/20 09:32	400
Dichlorodifluoromethane	ND		400	40	ug/L			10/11/20 09:32	400
Ethyl methacrylate	ND		800	22	ug/L			10/11/20 09:32	400
Ethylbenzene	ND		200	35	ug/L			10/11/20 09:32	400

Client Sample ID: Deep Leachate
Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		10000	5700	ug/L			10/11/20 09:32	400
Isobutyl alcohol	ND		4000	750	ug/L			10/11/20 09:32	400
m,p-Xylene	ND		400	59	ug/L			10/11/20 09:32	400
Methylacrylonitrile	ND		800	170	ug/L			10/11/20 09:32	400
Methyl methacrylate	ND		800	190	ug/L			10/11/20 09:32	400
Methylene Chloride	ND		400	17	ug/L			10/11/20 09:32	400
Methyl tert-butyl ether	ND		200	27	ug/L			10/11/20 09:32	400
Naphthalene	ND		400	39	ug/L			10/11/20 09:32	400
o-Xylene	ND		200	34	ug/L			10/11/20 09:32	400
Propionitrile	ND		2000	410	ug/L			10/11/20 09:32	400
Styrene	ND		200	23	ug/L			10/11/20 09:32	400
t-Butanol	ND		4000	1600	ug/L			10/11/20 09:32	400
Tetrachloroethene	ND		200	97	ug/L			10/11/20 09:32	400
Tetrahydrofuran	**570**	**J**	800	230	ug/L			10/11/20 09:32	400
Toluene	ND		200	37	ug/L			10/11/20 09:32	400
trans-1,2-Dichloroethene	ND		200	33	ug/L			10/11/20 09:32	400
trans-1,3-Dichloropropene	ND		200	21	ug/L			10/11/20 09:32	400
trans-1,4-Dichloro-2-butene	ND		800	55	ug/L			10/11/20 09:32	400
Trichloroethene	ND		200	41	ug/L			10/11/20 09:32	400
Trichlorofluoromethane	ND		200	41	ug/L			10/11/20 09:32	400
Vinyl acetate	ND		2000	280	ug/L			10/11/20 09:32	400
Vinyl chloride	ND		200	31	ug/L			10/11/20 09:32	400
1,2-Dibromoethane (EDB)	ND		200	24	ug/L			10/11/20 09:32	400
2-Butanone (MEK)	**17000**		2000	180	ug/L			10/11/20 09:32	400
4-Methyl-2-pentanone (MIBK)	ND		2000	170	ug/L			10/11/20 09:32	400

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*23000*	*T J N*	*ug/L*		*1.84*	*7446-09-5*		*10/11/20 09:32*	*400*
Unknown	*14000*	*T J*	*ug/L*		*2.15*			*10/11/20 09:32*	*400*
Ethanol	*670000*	*E*	*ug/L*		*3.08*	*64-17-5*		*10/11/20 09:32*	*400*
Unknown	*11000*	*T J*	*ug/L*		*3.35*			*10/11/20 09:32*	*400*
Isopropyl alcohol	*51000*		*ug/L*		*3.82*	*67-63-0*		*10/11/20 09:32*	*400*
Unknown	*11000*	*T J*	*ug/L*		*4.41*			*10/11/20 09:32*	*400*
Unknown	*10000*	*T J*	*ug/L*		*4.43*			*10/11/20 09:32*	*400*
Unknown	*14000*	*T J*	*ug/L*		*4.55*			*10/11/20 09:32*	*400*
1-Propanol	*46000*	*T J N*	*ug/L*		*5.45*	*71-23-8*		*10/11/20 09:32*	*400*
Unknown	*32000*	*T J*	*ug/L*		*5.52*			*10/11/20 09:32*	*400*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*10/11/20 09:32*	*400*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 128*		*10/11/20 09:32*	*400*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*10/11/20 09:32*	*400*
Dibromofluoromethane (Surr)	*103*		*80 - 127*		*10/11/20 09:32*	*400*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 09:32*	*400*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*10/11/20 09:32*	*400*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 09:32*	*400*
4-Bromofluorobenzene (Surr)	*96*		*68 - 120*		*10/11/20 09:32*	*400*

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		21	3.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
1,2-Dichlorobenzene	ND	*	21	3.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
1,2-Diphenylhydrazine(as Azobenzene)	ND		21	1.7	ug/L		10/09/20 07:47	10/12/20 19:23	2
1,3-Dichlorobenzene	ND	*	21	3.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
1,4-Dichlorobenzene	ND		21	3.4	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4,5-Trichlorophenol	ND		21	3.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4,6-Trichlorophenol	ND		21	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4-Dichlorophenol	ND		21	3.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4-Dimethylphenol	ND		21	1.7	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4-Dinitrophenol	ND		100	39	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,4-Dinitrotoluene	ND		21	3.7	ug/L		10/09/20 07:47	10/12/20 19:23	2
3 & 4 Methylphenol	**380**	*	21	5.7	ug/L		10/09/20 07:47	10/12/20 19:23	2
2,6-Dinitrotoluene	ND		21	3.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Chloronaphthalene	ND		21	2.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Chlorophenol	ND		21	3.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Methylnaphthalene	ND		21	2.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Methylphenol	ND		21	2.7	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Nitroaniline	ND		21	4.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
2-Nitrophenol	ND		21	5.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
3,3'-Dichlorobenzidine	ND		49	17	ug/L		10/09/20 07:47	10/12/20 19:23	2
3-Nitroaniline	ND		21	3.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
4,6-Dinitro-2-methylphenol	ND		100	42	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Bromophenyl phenyl ether	ND		21	2.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Chloro-3-methylphenol	ND		21	3.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Chloroaniline	ND		21	3.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Chlorophenyl phenyl ether	ND		21	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Nitroaniline	ND		21	2.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
4-Nitrophenol	ND		21	3.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
Acenaphthene	ND		21	2.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
Acenaphthylene	ND		21	3.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
Aniline	ND		21	2.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
Anthracene	ND		21	2.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzidine	ND		100	58	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzo[a]anthracene	ND		21	3.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzo[a]pyrene	ND		21	4.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzo[b]fluoranthene	ND		21	4.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzo[g,h,i]perylene	ND		21	4.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzo[k]fluoranthene	ND		21	4.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzoic acid	ND	*	100	50	ug/L		10/09/20 07:47	10/12/20 19:23	2
Benzyl alcohol	ND		21	4.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Bis(2-chloroethoxy)methane	ND		21	3.2	ug/L		10/09/20 07:47	10/12/20 19:23	2
Bis(2-chloroethyl)ether	ND		49	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Bis(2-ethylhexyl) phthalate	**7.9**	**J**	21	7.8	ug/L		10/09/20 07:47	10/12/20 19:23	2
Butyl benzyl phthalate	ND		21	7.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Chrysene	ND		21	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Dibenz(a,h)anthracene	ND		21	5.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
Dibenzofuran	ND		21	2.6	ug/L		10/09/20 07:47	10/12/20 19:23	2
Diethyl phthalate	ND		21	2.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
Dimethyl phthalate	ND		21	2.4	ug/L		10/09/20 07:47	10/12/20 19:23	2

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		21	3.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
Fluorene	ND		21	3.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
Hexachlorobenzene	ND		21	1.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
Hexachlorobutadiene	ND	*	21	4.3	ug/L		10/09/20 07:47	10/12/20 19:23	2
Hexachlorocyclopentadiene	ND		49	23	ug/L		10/09/20 07:47	10/12/20 19:23	2
Hexachloroethane	ND	*	21	4.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
Indeno[1,2,3-cd]pyrene	ND		21	4.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
Isophorone	ND		21	3.5	ug/L		10/09/20 07:47	10/12/20 19:23	2
Naphthalene	ND		21	3.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
Nitrobenzene	ND		49	2.9	ug/L		10/09/20 07:47	10/12/20 19:23	2
N-Nitrosodimethylamine	ND	*	21	2.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
N-Nitrosodi-n-propylamine	ND		21	4.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
N-Nitrosodiphenylamine	ND		21	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Pentachlorophenol	ND		21	20	ug/L		10/09/20 07:47	10/12/20 19:23	2
Phenanthrene	ND		21	3.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Phenol	ND		21	1.1	ug/L		10/09/20 07:47	10/12/20 19:23	2
bis (2-chloroisopropyl) ether	ND		21	4.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Di-n-butyl phthalate	ND		21	9.4	ug/L		10/09/20 07:47	10/12/20 19:23	2
Di-n-octyl phthalate	ND		21	9.0	ug/L		10/09/20 07:47	10/12/20 19:23	2
Pyrene	ND		21	3.5	ug/L		10/09/20 07:47	10/12/20 19:23	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*50*		*32 - 143*	*10/09/20 07:47*	*10/12/20 19:23*	*2*
2-Fluorophenol (Surr)	*43*		*15 - 138*	*10/09/20 07:47*	*10/12/20 19:23*	*2*
Nitrobenzene-d5 (Surr)	*0*	*X*	*56 - 123*	*10/09/20 07:47*	*10/12/20 19:23*	*2*
Phenol-d6 (Surr)	*0*	*X*	*17 - 141*	*10/09/20 07:47*	*10/12/20 19:23*	*2*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**310**		2.5	0.89	ug/L		10/07/20 07:48	10/08/20 12:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*20*		*15 - 150*	*10/07/20 07:48*	*10/08/20 12:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*25*	*X*	*46 - 128*	*10/07/20 07:48*	*10/08/20 12:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		100	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
N-Nitrosomethylethylamine	ND		100	21	ug/L		10/06/20 17:03	10/07/20 18:22	1
N-Nitrosopiperidine	ND		100	12	ug/L		10/06/20 17:03	10/07/20 18:22	1
1,4-phenylenediamine	ND		500	16	ug/L		10/06/20 17:03	10/07/20 18:22	1
3,3'-Dimethylbenzidine	ND		1000	8.5	ug/L		10/06/20 17:03	10/07/20 18:22	1
Isosafrole	ND		100	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
alpha,alpha-Dimethyl phenethylamine	ND		1000	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
Diphenylamine	ND		100	14	ug/L		10/06/20 17:03	10/07/20 18:22	1
o,o',o''-Triethylphosphorothioate	ND		500	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
1,4-Naphthoquinone	ND		200	7.6	ug/L		10/06/20 17:03	10/07/20 18:22	1
1-Naphthylamine	ND		200	7.9	ug/L		10/06/20 17:03	10/07/20 18:22	1
Kepone	ND	*	500	22	ug/L		10/06/20 17:03	10/07/20 18:22	1

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diallate	ND		100	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
Pronamide	ND		100	10	ug/L		10/06/20 17:03	10/07/20 18:22	1
Phorate	ND		100	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
Isodrin	ND		100	12	ug/L		10/06/20 17:03	10/07/20 18:22	1
Ethyl 4,4'-Dichlorobenzilate	ND		500	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
2-Acetylaminofluorene	ND		200	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
N-Nitrosodiethylamine	ND		100	10	ug/L		10/06/20 17:03	10/07/20 18:22	1
7,12-Dimethylbenz(a)anthracene	ND		100	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
2,3,4,6-Tetrachlorophenol	ND		500	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
Dimethyl aminoazobenzene	ND		100	12	ug/L		10/06/20 17:03	10/07/20 18:22	1
Pentachlorobenzene	ND		100	14	ug/L		10/06/20 17:03	10/07/20 18:22	1
Phenacetin	ND		100	14	ug/L		10/06/20 17:03	10/07/20 18:22	1
Ethyl methanesulfonate	ND		200	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
Methyl methanesulfonate	ND		200	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
Pentachloronitrobenzene	ND		100	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
2,6-Dichlorophenol	ND		100	15	ug/L		10/06/20 17:03	10/07/20 18:22	1
2-Naphthylamine	ND		500	8.1	ug/L		10/06/20 17:03	10/07/20 18:22	1
Methapyrilene	ND		500	31	ug/L		10/06/20 17:03	10/07/20 18:22	1
N-Nitrosodi-n-butylamine	ND		100	14	ug/L		10/06/20 17:03	10/07/20 18:22	1
4-Aminobiphenyl	ND		200	5.7	ug/L		10/06/20 17:03	10/07/20 18:22	1
N-Nitrosopyrrolidine	ND		100	12	ug/L		10/06/20 17:03	10/07/20 18:22	1
Safrole, Total	ND		100	13	ug/L		10/06/20 17:03	10/07/20 18:22	1
o-Toluidine	ND		100	5.3	ug/L		10/06/20 17:03	10/07/20 18:22	1
1,2,4,5-Tetrachlorobenzene	ND		100	10	ug/L		10/06/20 17:03	10/07/20 18:22	1
5-Nitro-o-toluidine	ND		100	8.6	ug/L		10/06/20 17:03	10/07/20 18:22	1
3-Methylcholanthrene	ND		200	10	ug/L		10/06/20 17:03	10/07/20 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*34*		*15 - 138*	*10/06/20 17:03*	*10/07/20 18:22*	*1*
Nitrobenzene-d5 (Surr)	*46*	*X*	*56 - 123*	*10/06/20 17:03*	*10/07/20 18:22*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*32 - 143*	*10/06/20 17:03*	*10/07/20 18:22*	*1*
Phenol-d6 (Surr)	*26*		*17 - 141*	*10/06/20 17:03*	*10/07/20 18:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.020	0.0078	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endosulfan sulfate	ND		0.049	0.013	ug/L		10/07/20 07:27	10/09/20 12:15	1
Aldrin	ND		0.049	0.011	ug/L		10/07/20 07:27	10/09/20 12:15	1
alpha-BHC	ND		0.020	0.0093	ug/L		10/07/20 07:27	10/09/20 12:15	1
beta-BHC	ND		0.020	0.0073	ug/L		10/07/20 07:27	10/09/20 12:15	1
delta-BHC	ND		0.020	0.0073	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endosulfan II	ND		0.049	0.010	ug/L		10/07/20 07:27	10/09/20 12:15	1
4,4'-DDT	ND		0.049	0.025	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endrin ketone	ND		0.049	0.012	ug/L		10/07/20 07:27	10/09/20 12:15	1
Chlordane (technical)	ND		0.098	0.036	ug/L		10/07/20 07:27	10/09/20 12:15	1
gamma-BHC (Lindane)	ND		0.020	0.0069	ug/L		10/07/20 07:27	10/09/20 12:15	1
Dieldrin	ND		0.049	0.011	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endrin	ND		0.020	0.0098	ug/L		10/07/20 07:27	10/09/20 12:15	1
Methoxychlor	ND		0.049	0.019	ug/L		10/07/20 07:27	10/09/20 12:15	1
4,4'-DDD	ND		0.049	0.013	ug/L		10/07/20 07:27	10/09/20 12:15	1

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		0.020	0.0083	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endrin aldehyde	ND		0.098	0.031	ug/L		10/07/20 07:27	10/09/20 12:15	1
Heptachlor	ND		0.020	0.0073	ug/L		10/07/20 07:27	10/09/20 12:15	1
Toxaphene	ND		0.29	0.14	ug/L		10/07/20 07:27	10/09/20 12:15	1
Endosulfan I	ND		0.049	0.012	ug/L		10/07/20 07:27	10/09/20 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*20 - 139*	*10/07/20 07:27*	*10/09/20 12:15*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*20 - 154*	*10/07/20 07:27*	*10/09/20 12:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.49	0.034	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1221	ND		0.49	0.19	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1232	ND		0.49	0.057	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1242	ND		0.49	0.045	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1248	ND		0.49	0.053	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1254	ND		0.49	0.087	ug/L		10/07/20 07:27	10/08/20 20:06	1
Aroclor 1260	ND		0.49	0.036	ug/L		10/07/20 07:27	10/08/20 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*21*		*20 - 154*	*10/07/20 07:27*	*10/08/20 20:06*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND	*1	0.80	0.44	ug/L		10/08/20 14:52	10/09/20 19:27	1
Bolstar	ND	*1	0.80	0.15	ug/L		10/08/20 14:52	10/09/20 19:27	1
Chlorpyrifos	ND	*1	0.80	0.25	ug/L		10/08/20 14:52	10/09/20 19:27	1
Coumaphos	ND	*1	0.80	0.29	ug/L		10/08/20 14:52	10/09/20 19:27	1
Demeton, Total	ND	*1	3.2	0.83	ug/L		10/08/20 14:52	10/09/20 19:27	1
Diazinon	ND	*1	0.80	0.41	ug/L		10/08/20 14:52	10/09/20 19:27	1
Dichlorvos	ND	*1	0.80	0.56	ug/L		10/08/20 14:52	10/09/20 19:27	1
Dimethoate	ND		0.80	0.42	ug/L		10/08/20 14:52	10/09/20 19:27	1
Disulfoton	ND	*1	0.80	0.39	ug/L		10/08/20 14:52	10/09/20 19:27	1
EPN	ND		0.80	0.39	ug/L		10/08/20 14:52	10/09/20 19:27	1
Famphur	ND		0.80	0.37	ug/L		10/08/20 14:52	10/09/20 19:27	1
Fensulfothion	ND	*1	1.6	0.64	ug/L		10/08/20 14:52	10/09/20 19:27	1
Fenthion	ND	*1	0.80	0.14	ug/L		10/08/20 14:52	10/09/20 19:27	1
Malathion	ND		1.6	0.85	ug/L		10/08/20 14:52	10/09/20 19:27	1
Methyl parathion	ND	*1	0.80	0.25	ug/L		10/08/20 14:52	10/09/20 19:27	1
Mevinphos	ND	*1	0.80	0.52	ug/L		10/08/20 14:52	10/09/20 19:27	1
Parathion	ND		0.80	0.39	ug/L		10/08/20 14:52	10/09/20 19:27	1
Phorate	ND	*1	1.6	0.82	ug/L		10/08/20 14:52	10/09/20 19:27	1
Ronnel	ND	*1	0.80	0.26	ug/L		10/08/20 14:52	10/09/20 19:27	1
Stirophos	ND	*1	0.80	0.53	ug/L		10/08/20 14:52	10/09/20 19:27	1
Sulfotepp	ND		1.6	0.54	ug/L		10/08/20 14:52	10/09/20 19:27	1
Tokuthion	ND	*1	0.80	0.25	ug/L		10/08/20 14:52	10/09/20 19:27	1
Trichloronate	ND	*1	0.80	0.24	ug/L		10/08/20 14:52	10/09/20 19:27	1
Mocap	ND	*1	0.80	0.31	ug/L		10/08/20 14:52	10/09/20 19:27	1
Thionazin	ND		0.80	0.56	ug/L		10/08/20 14:52	10/09/20 19:27	1

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tributyl phosphate	*53*		*30 - 130*	*10/08/20 14:52*	*10/09/20 19:27*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.48	0.20	ug/L		10/10/20 10:42	10/15/20 12:06	1
2,4-D	ND		4.8	0.80	ug/L		10/10/20 10:42	10/15/20 12:06	1
Silvex (2,4,5-TP)	ND		0.48	0.38	ug/L		10/10/20 10:42	10/15/20 12:06	1
Dalapon	ND		12	4.5	ug/L		10/10/20 10:42	10/15/20 12:06	1
2,4-DB	ND		4.8	3.3	ug/L		10/10/20 10:42	10/15/20 12:06	1
Dicamba	ND		0.48	0.13	ug/L		10/10/20 10:42	10/15/20 12:06	1
Dichlorprop	ND		4.8	0.50	ug/L		10/10/20 10:42	10/15/20 12:06	1
Dinoseb	ND		2.4	2.1	ug/L		10/10/20 10:42	10/15/20 12:06	1
MCPA	ND		480	150	ug/L		10/10/20 10:42	10/15/20 12:06	1
MCPP	ND		480	77	ug/L		10/10/20 10:42	10/15/20 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*642*	*X*	*20 - 147*	*10/10/20 10:42*	*10/15/20 12:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**300**		25	13	mg/L			10/05/20 20:48	50

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.030	mg/L		10/08/20 13:30	10/09/20 12:08	1
Arsenic	**0.068**		0.050	0.045	mg/L		10/08/20 13:30	10/09/20 12:08	1
Barium	**0.39**		0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Beryllium	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 12:08	1
Cadmium	ND		0.025	0.013	mg/L		10/08/20 13:30	10/09/20 12:08	1
Chromium	**0.097**		0.025	0.013	mg/L		10/08/20 13:30	10/09/20 12:08	1
Cobalt	ND		0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Copper	**0.027**	**J**	0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Lead	ND		0.025	0.019	mg/L		10/08/20 13:30	10/09/20 12:08	1
Nickel	**0.099**		0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Selenium	ND		0.050	0.044	mg/L		10/08/20 13:30	10/09/20 12:08	1
Silver	ND		0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Thallium	ND		0.050	0.040	mg/L		10/08/20 13:30	10/09/20 12:08	1
Tin	ND		0.50	0.25	mg/L		10/08/20 13:30	10/09/20 12:08	1
Vanadium	**0.082**		0.050	0.025	mg/L		10/08/20 13:30	10/09/20 12:08	1
Zinc	**0.65**		0.10	0.060	mg/L		10/08/20 13:30	10/09/20 12:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0010	0.00050	mg/L		10/09/20 14:04	10/12/20 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**970**		80	40	mg/L			10/09/20 13:47	400
Total Kjeldahl Nitrogen	**230**		5.0	1.2	mg/L		10/08/20 10:00	10/08/20 14:21	25
Chemical Oxygen Demand	**8600**		1000	500	mg/L			10/09/20 10:45	50
Total Dissolved Solids	**12000**		100	50	mg/L			10/06/20 10:35	1

Client Sample ID: Deep Leachate

Lab Sample ID: 440-272708-2

Date Collected: 10/05/20 11:45

Matrix: Water

Date Received: 10/05/20 16:52

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	650		50	25	mg/L			10/06/20 14:49	1
Cyanide, Total	0.015	J	0.025	0.013	mg/L		10/07/20 10:52	10/07/20 14:55	1
Total Sulfide	0.11		0.050	0.027	mg/L			10/08/20 17:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8	HF	0.1	0.1	SU			10/06/20 06:19	1
Biochemical Oxygen Demand	7200		2400	2400	mg/L			10/06/20 09:26	1

Client Sample ID: Field Blank

Lab Sample ID: 440-272708-3

Date Collected: 10/05/20 00:01

Matrix: Water

Date Received: 10/05/20 16:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			10/11/20 03:28	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/11/20 03:28	1
Acrolein	ND		10	0.59	ug/L			10/11/20 03:28	1
Acrylonitrile	ND		5.0	0.57	ug/L			10/11/20 03:28	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			10/11/20 03:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			10/11/20 03:28	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			10/11/20 03:28	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			10/11/20 03:28	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/11/20 03:28	1
1,1-Dichloropropene	ND	*	0.50	0.070	ug/L			10/11/20 03:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			10/11/20 03:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			10/11/20 03:28	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			10/11/20 03:28	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			10/11/20 03:28	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			10/11/20 03:28	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			10/11/20 03:28	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			10/11/20 03:28	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			10/11/20 03:28	1
2,2-Dichloropropane	ND	*	1.0	0.38	ug/L			10/11/20 03:28	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			10/11/20 03:28	1
2-Hexanone	ND		10	0.50	ug/L			10/11/20 03:28	1
Acetone	ND		10	4.0	ug/L			10/11/20 03:28	1
Acetonitrile	ND		10	2.0	ug/L			10/11/20 03:28	1
Benzene	ND		0.50	0.072	ug/L			10/11/20 03:28	1
Allyl chloride	ND		2.0	0.55	ug/L			10/11/20 03:28	1
Bromoform	ND		0.50	0.096	ug/L			10/11/20 03:28	1
Bromomethane	ND		2.0	0.99	ug/L			10/11/20 03:28	1
Carbon disulfide	ND		10	0.39	ug/L			10/11/20 03:28	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			10/11/20 03:28	1
Chlorobenzene	ND		0.50	0.088	ug/L			10/11/20 03:28	1
Bromochloromethane	ND		1.0	0.082	ug/L			10/11/20 03:28	1
Chloroethane	ND		0.50	0.12	ug/L			10/11/20 03:28	1
Chloroform	ND		0.50	0.062	ug/L			10/11/20 03:28	1
Chloromethane	ND		5.0	2.0	ug/L			10/11/20 03:28	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/11/20 03:28	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			10/11/20 03:28	1
Dibromochloromethane	ND		0.50	0.064	ug/L			10/11/20 03:28	1

Client Sample ID: Field Blank
Date Collected: 10/05/20 00:01
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50	0.13	ug/L			10/11/20 03:28	1
Bromodichloromethane	ND		0.50	0.053	ug/L			10/11/20 03:28	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			10/11/20 03:28	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			10/11/20 03:28	1
Ethylbenzene	ND		0.50	0.087	ug/L			10/11/20 03:28	1
Iodomethane	ND		25	14	ug/L			10/11/20 03:28	1
Isobutyl alcohol	ND		10	1.9	ug/L			10/11/20 03:28	1
m,p-Xylene	ND		1.0	0.15	ug/L			10/11/20 03:28	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			10/11/20 03:28	1
Methyl methacrylate	ND		2.0	0.48	ug/L			10/11/20 03:28	1
Methylene Chloride	ND		1.0	0.043	ug/L			10/11/20 03:28	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			10/11/20 03:28	1
Naphthalene	ND		1.0	0.097	ug/L			10/11/20 03:28	1
o-Xylene	ND		0.50	0.086	ug/L			10/11/20 03:28	1
Propionitrile	ND		5.0	1.0	ug/L			10/11/20 03:28	1
Styrene	ND		0.50	0.059	ug/L			10/11/20 03:28	1
t-Butanol	ND		10	4.0	ug/L			10/11/20 03:28	1
Tetrachloroethene	ND		0.50	0.24	ug/L			10/11/20 03:28	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			10/11/20 03:28	1
Toluene	ND		0.50	0.093	ug/L			10/11/20 03:28	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			10/11/20 03:28	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			10/11/20 03:28	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			10/11/20 03:28	1
Trichloroethene	ND		0.50	0.10	ug/L			10/11/20 03:28	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			10/11/20 03:28	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/11/20 03:28	1
Vinyl chloride	ND		0.50	0.078	ug/L			10/11/20 03:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			10/11/20 03:28	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			10/11/20 03:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			10/11/20 03:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*23*	*T J*	*ug/L*		*1.77*			*10/11/20 03:28*	*1*
Unknown	*60*	*T J*	*ug/L*		*1.84*			*10/11/20 03:28*	*1*
Unknown	*24*	*T J*	*ug/L*		*1.96*			*10/11/20 03:28*	*1*
Unknown	*27*	*T J*	*ug/L*		*2.13*			*10/11/20 03:28*	*1*
Unknown	*30*	*T J*	*ug/L*		*2.16*			*10/11/20 03:28*	*1*
Unknown	*24*	*T J*	*ug/L*		*2.19*			*10/11/20 03:28*	*1*
Unknown	*42*	*T J*	*ug/L*		*2.31*			*10/11/20 03:28*	*1*
Unknown	*28*	*T J*	*ug/L*		*2.37*			*10/11/20 03:28*	*1*
Unknown	*28*	*T J*	*ug/L*		*2.42*			*10/11/20 03:28*	*1*
Unknown	*29*	*T J*	*ug/L*		*4.47*			*10/11/20 03:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*10/11/20 03:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*10/11/20 03:28*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 127*		*10/11/20 03:28*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 127*		*10/11/20 03:28*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 03:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*10/11/20 03:28*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-272708-3

Date Collected: 10/05/20 00:01
Matrix: Water
Date Received: 10/05/20 16:52

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 03:28*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 120*		*10/11/20 03:28*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-272708-4

Date Collected: 10/05/20 00:01
Matrix: Water
Date Received: 10/05/20 16:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			10/11/20 03:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/11/20 03:56	1
Acrolein	ND		10	0.59	ug/L			10/11/20 03:56	1
Acrylonitrile	ND		5.0	0.57	ug/L			10/11/20 03:56	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			10/11/20 03:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			10/11/20 03:56	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			10/11/20 03:56	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			10/11/20 03:56	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/11/20 03:56	1
1,1-Dichloropropene	ND	*	0.50	0.070	ug/L			10/11/20 03:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			10/11/20 03:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			10/11/20 03:56	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			10/11/20 03:56	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			10/11/20 03:56	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			10/11/20 03:56	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			10/11/20 03:56	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			10/11/20 03:56	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			10/11/20 03:56	1
2,2-Dichloropropane	ND	*	1.0	0.38	ug/L			10/11/20 03:56	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			10/11/20 03:56	1
2-Hexanone	ND		10	0.50	ug/L			10/11/20 03:56	1
Acetone	ND		10	4.0	ug/L			10/11/20 03:56	1
Acetonitrile	ND		10	2.0	ug/L			10/11/20 03:56	1
Benzene	ND		0.50	0.072	ug/L			10/11/20 03:56	1
Allyl chloride	ND		2.0	0.55	ug/L			10/11/20 03:56	1
Bromoform	ND		0.50	0.096	ug/L			10/11/20 03:56	1
Bromomethane	ND		2.0	0.99	ug/L			10/11/20 03:56	1
Carbon disulfide	ND		10	0.39	ug/L			10/11/20 03:56	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			10/11/20 03:56	1
Chlorobenzene	ND		0.50	0.088	ug/L			10/11/20 03:56	1
Bromochloromethane	ND		1.0	0.082	ug/L			10/11/20 03:56	1
Chloroethane	ND		0.50	0.12	ug/L			10/11/20 03:56	1
Chloroform	ND		0.50	0.062	ug/L			10/11/20 03:56	1
Chloromethane	ND		5.0	2.0	ug/L			10/11/20 03:56	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/11/20 03:56	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			10/11/20 03:56	1
Dibromochloromethane	ND		0.50	0.064	ug/L			10/11/20 03:56	1
Dibromomethane	ND		0.50	0.13	ug/L			10/11/20 03:56	1
Bromodichloromethane	ND		0.50	0.053	ug/L			10/11/20 03:56	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			10/11/20 03:56	1

Client Sample ID: Trip Blank

Date Collected: 10/05/20 00:01
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		2.0	0.056	ug/L			10/11/20 03:56	1
Ethylbenzene	ND		0.50	0.087	ug/L			10/11/20 03:56	1
Iodomethane	ND		25	14	ug/L			10/11/20 03:56	1
Isobutyl alcohol	ND		10	1.9	ug/L			10/11/20 03:56	1
m,p-Xylene	ND		1.0	0.15	ug/L			10/11/20 03:56	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			10/11/20 03:56	1
Methyl methacrylate	ND		2.0	0.48	ug/L			10/11/20 03:56	1
Methylene Chloride	ND		1.0	0.043	ug/L			10/11/20 03:56	1
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			10/11/20 03:56	1
Naphthalene	ND		1.0	0.097	ug/L			10/11/20 03:56	1
o-Xylene	ND		0.50	0.086	ug/L			10/11/20 03:56	1
Propionitrile	ND		5.0	1.0	ug/L			10/11/20 03:56	1
Styrene	ND		0.50	0.059	ug/L			10/11/20 03:56	1
t-Butanol	ND		10	4.0	ug/L			10/11/20 03:56	1
Tetrachloroethene	ND		0.50	0.24	ug/L			10/11/20 03:56	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			10/11/20 03:56	1
Toluene	ND		0.50	0.093	ug/L			10/11/20 03:56	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			10/11/20 03:56	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			10/11/20 03:56	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			10/11/20 03:56	1
Trichloroethene	ND		0.50	0.10	ug/L			10/11/20 03:56	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			10/11/20 03:56	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/11/20 03:56	1
Vinyl chloride	ND		0.50	0.078	ug/L			10/11/20 03:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			10/11/20 03:56	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			10/11/20 03:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			10/11/20 03:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Sulfur dioxide	*26*	*T J N*	*ug/L*		*1.84*	*7446-09-5*		*10/11/20 03:56*	*1*
Unknown	*20*	*T J*	*ug/L*		*1.85*			*10/11/20 03:56*	*1*
Unknown	*16*	*T J*	*ug/L*		*1.94*			*10/11/20 03:56*	*1*
Unknown	*15*	*T J*	*ug/L*		*1.96*			*10/11/20 03:56*	*1*
Unknown	*13*	*T J*	*ug/L*		*2.12*			*10/11/20 03:56*	*1*
Unknown	*15*	*T J*	*ug/L*		*2.26*			*10/11/20 03:56*	*1*
Unknown	*14*	*T J*	*ug/L*		*2.31*			*10/11/20 03:56*	*1*
Unknown	*13*	*T J*	*ug/L*		*2.36*			*10/11/20 03:56*	*1*
Unknown	*16*	*T J*	*ug/L*		*4.37*			*10/11/20 03:56*	*1*
Unknown	*36*	*T J*	*ug/L*		*4.59*			*10/11/20 03:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*10/11/20 03:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 128*		*10/11/20 03:56*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 127*		*10/11/20 03:56*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 127*		*10/11/20 03:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 03:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 120*		*10/11/20 03:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 03:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 120*		*10/11/20 03:56*	*1*

Method Summary

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272708-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	ECL 1
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	ECL 1
8270C SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	ECL 1
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 1
8141A	Organophosphorous Pesticides (GC)	SW846	ECL 1
8151A	Herbicides (GC)	SW846	ECL 1
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
350.1	Nitrogen, Ammonia	MCAWW	TAL IRV
351.2	Nitrogen, Total Kjeldahl	MCAWW	ECL 1
410.4	COD	MCAWW	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL IRV
SM 4500 CN E	Cyanide, Total	SM	TAL IRV
SM 4500 H+ B	pH	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM5210B	BOD, 5 Day	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
351.2	Nitrogen, Total Kjeldahl	MCAWW	ECL 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
7470A	Preparation, Mercury	SW846	TAL IRV
8151A	Extraction (Herbicides)	SW846	ECL 1
Distill/CN	Distillation, Cyanide	None	TAL IRV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272708-1

Client Sample ID: LR-2R

Date Collected: 10/05/20 09:15
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		8			100980	10/11/20 09:04	UX77	ECL
Total/NA	Prep	3510C			975.3 mL	2 mL	99867	10/06/20 17:03	SAL	ECL 1
Total/NA	Analysis	8270C		1			100088	10/07/20 18:03	N8CZ	ECL 1
Total/NA	Prep	3510C			975.3 mL	2 mL	99867	10/06/20 17:03	SAL	ECL 1
Total/NA	Analysis	8270C		1			100150	10/07/20 18:03	N8CZ	ECL 1
Total/NA	Prep	3510C			948.3 mL	1 mL	100608	10/09/20 07:47	OAJ3	ECL 1
Total/NA	Analysis	8270C LL		1			101135	10/12/20 19:04	UJ3K	ECL 1
Total/NA	Prep	3510C			100.5 mL	10 mL	100001	10/07/20 07:48	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		10			100439	10/08/20 20:31	AJ2Q	ECL 1
Total/NA	Prep	3510C			982.3 mL	5 mL	99960	10/07/20 07:27	OAJ3	ECL 1
Total/NA	Analysis	8081A		1			100502	10/09/20 05:21	UHHN	ECL 1
Total/NA	Prep	3510C			982.3 mL	5 mL	99960	10/07/20 07:27	OAJ3	ECL 1
Total/NA	Analysis	8082		1			100333	10/08/20 20:24	UHHN	ECL 1
Total/NA	Prep	3510C			1002.5 mL	1 mL	100450	10/08/20 14:52	SAL	ECL 1
Total/NA	Analysis	8141A		1			100729	10/09/20 18:39	UJ3K	ECL 1
Total/NA	Prep	8151A			1043.2 mL	5 mL	100935	10/10/20 10:42	J7WE	ECL 1
Total/NA	Analysis	8151A		1			102013	10/15/20 11:42	J7WE	ECL 1
Total/NA	Analysis	300.0		20			626618	10/05/20 20:32	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	627035	10/08/20 13:30	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			627164	10/09/20 12:05	KE	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	627173	10/09/20 14:04	EMS	TAL IRV
Total/NA	Analysis	7470A		1			627351	10/12/20 12:54	EMS	TAL IRV
Total/NA	Analysis	350.1		100	0.8 mL	8 mL	627188	10/09/20 13:40	KMY	TAL IRV
Total/NA	Prep	351.2			50 mL	50 mL	100462	10/08/20 10:00	YR9U	ECL 1
Total/NA	Analysis	351.2		25			100460	10/08/20 14:28	YR9U	ECL 1
Total/NA	Analysis	410.4		2	2 mL	2 mL	627143	10/09/20 10:45	NN	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	626761	10/06/20 10:35	XL	TAL IRV
Total/NA	Analysis	SM 2540D		1	50 mL	1000 mL	626807	10/06/20 14:49	HTL	TAL IRV
Total/NA	Prep	Distill/CN			50 mL	50 mL	626889	10/07/20 10:52	KMY	TAL IRV
Total/NA	Analysis	SM 4500 CN E		1			626925	10/07/20 14:55	KMY	TAL IRV
Total/NA	Analysis	SM 4500 H+ B		1			626720	10/06/20 06:11	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	627068	10/08/20 17:25	KMY	TAL IRV
Total/NA	Analysis	SM5210B		1	30 mL	300 mL	626731	10/06/20 08:23	KYP	TAL IRV

Client Sample ID: Deep Leachate

Date Collected: 10/05/20 11:45
Date Received: 10/05/20 16:52

Lab Sample ID: 440-272708-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		400			100980	10/11/20 09:32	UX77	ECL
Total/NA	Prep	3510C			500 mL	10 mL	99867	10/06/20 17:03	SAL	ECL 1
Total/NA	Analysis	8270C		1			100088	10/07/20 18:22	N8CZ	ECL 1

Client Sample ID: Deep Leachate

Lab Sample ID: 440-272708-2

Date Collected: 10/05/20 11:45

Matrix: Water

Date Received: 10/05/20 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			500 mL	10 mL	99867	10/06/20 17:03	SAL	ECL 1
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	100150	10/07/20 18:22	N8CZ	ECL 1
Total/NA	Prep	3510C			971.7 mL	2 mL	100608	10/09/20 07:47	OAJ3	ECL 1
Total/NA	Analysis	8270C LL		2			101135	10/12/20 19:23	UJ3K	ECL 1
Total/NA	Prep	3510C			20.0 mL	10 mL	100001	10/07/20 07:48	JS1	ECL 1
Total/NA	Analysis	8270C SIM ID		1			100093	10/08/20 12:51	AJ2Q	ECL 1
Total/NA	Prep	3510C			1020.6 mL	5 mL	99960	10/07/20 07:27	OAJ3	ECL 1
Total/NA	Analysis	8081A		1			100502	10/09/20 12:15	UHHN	ECL 1
Total/NA	Prep	3510C			1020.6 mL	5 mL	99960	10/07/20 07:27	OAJ3	ECL 1
Total/NA	Analysis	8082		1			100333	10/08/20 20:06	UHHN	ECL 1
Total/NA	Prep	3510C			250 mL	1 mL	100450	10/08/20 14:52	SAL	ECL 1
Total/NA	Analysis	8141A		1			100729	10/09/20 19:27	UJ3K	ECL 1
Total/NA	Prep	8151A			1048.8 mL	5 mL	100935	10/10/20 10:42	J7WE	ECL 1
Total/NA	Analysis	8151A		1			102013	10/15/20 12:06	J7WE	ECL 1
Total/NA	Analysis	300.0		50			626618	10/05/20 20:48	NTN	TAL IRV
Total Recoverable	Prep	3005A			5 mL	25 mL	627035	10/08/20 13:30	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			627164	10/09/20 12:08	KE	TAL IRV
Total/NA	Prep	7470A			4 mL	20 mL	627173	10/09/20 14:04	EMS	TAL IRV
Total/NA	Analysis	7470A		1			627351	10/12/20 12:56	EMS	TAL IRV
Total/NA	Analysis	350.1		400	0.8 mL	8 mL	627188	10/09/20 13:47	KMY	TAL IRV
Total/NA	Prep	351.2			50 mL	50 mL	100462	10/08/20 10:00	YR9U	ECL 1
Total/NA	Analysis	351.2		25			100460	10/08/20 14:21	YR9U	ECL 1
Total/NA	Analysis	410.4		50	2 mL	2 mL	627143	10/09/20 10:45	NN	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	626761	10/06/20 10:35	XL	TAL IRV
Total/NA	Analysis	SM 2540D		1	20 mL	1000 mL	626807	10/06/20 14:49	HTL	TAL IRV
Total/NA	Prep	Distill/CN			50 mL	50 mL	626889	10/07/20 10:52	KMY	TAL IRV
Total/NA	Analysis	SM 4500 CN E		1			626925	10/07/20 14:55	KMY	TAL IRV
Total/NA	Analysis	SM 4500 H+ B		1			626720	10/06/20 06:19	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	627068	10/08/20 17:25	KMY	TAL IRV
Total/NA	Analysis	SM5210B		1	0.25 mL	300 mL	626731	10/06/20 09:26	KYP	TAL IRV

Client Sample ID: Field Blank

Lab Sample ID: 440-272708-3

Date Collected: 10/05/20 00:01

Matrix: Water

Date Received: 10/05/20 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			100980	10/11/20 03:28	UX77	ECL

Client Sample ID: Trip Blank

Lab Sample ID: 440-272708-4

Date Collected: 10/05/20 00:01

Matrix: Water

Date Received: 10/05/20 16:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1			100980	10/11/20 03:56	UX77	ECL

Lab Chronicle

Client: Geo-Logic Associates
Project/Site: Republic Sunshine Canyon

Job ID: 440-272708-1

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 570-100980/7
Matrix: Water
Analysis Batch: 100980

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.076	ug/L			10/11/20 02:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/11/20 02:32	1
Acrolein	ND		10	0.59	ug/L			10/11/20 02:32	1
Acrylonitrile	ND		5.0	0.57	ug/L			10/11/20 02:32	1
1,1,1-Trichloroethane	ND		0.50	0.084	ug/L			10/11/20 02:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.087	ug/L			10/11/20 02:32	1
1,1,2-Trichloroethane	ND		0.50	0.069	ug/L			10/11/20 02:32	1
1,1-Dichloroethane	ND		0.50	0.060	ug/L			10/11/20 02:32	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/11/20 02:32	1
1,1-Dichloropropene	ND		0.50	0.070	ug/L			10/11/20 02:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	ug/L			10/11/20 02:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.51	ug/L			10/11/20 02:32	1
1,2-Dichlorobenzene	ND		0.50	0.082	ug/L			10/11/20 02:32	1
1,2-Dichloroethane	ND		0.50	0.075	ug/L			10/11/20 02:32	1
1,2-Dichloropropane	ND		0.50	0.099	ug/L			10/11/20 02:32	1
1,3-Dichlorobenzene	ND		0.50	0.098	ug/L			10/11/20 02:32	1
1,3-Dichloropropane	ND		1.0	0.082	ug/L			10/11/20 02:32	1
1,4-Dichlorobenzene	ND		0.50	0.073	ug/L			10/11/20 02:32	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			10/11/20 02:32	1
2-Chloro-1,3-butadiene	ND		10	0.095	ug/L			10/11/20 02:32	1
2-Hexanone	ND		10	0.50	ug/L			10/11/20 02:32	1
Acetone	ND		10	4.0	ug/L			10/11/20 02:32	1
Acetonitrile	ND		10	2.0	ug/L			10/11/20 02:32	1
Benzene	ND		0.50	0.072	ug/L			10/11/20 02:32	1
Allyl chloride	ND		2.0	0.55	ug/L			10/11/20 02:32	1
Bromoform	ND		0.50	0.096	ug/L			10/11/20 02:32	1
Bromomethane	ND		2.0	0.99	ug/L			10/11/20 02:32	1
Carbon disulfide	ND		10	0.39	ug/L			10/11/20 02:32	1
Carbon tetrachloride	ND		0.50	0.057	ug/L			10/11/20 02:32	1
Chlorobenzene	ND		0.50	0.088	ug/L			10/11/20 02:32	1
Bromochloromethane	ND		1.0	0.082	ug/L			10/11/20 02:32	1
Chloroethane	ND		0.50	0.12	ug/L			10/11/20 02:32	1
Chloroform	ND		0.50	0.062	ug/L			10/11/20 02:32	1
Chloromethane	ND		5.0	2.0	ug/L			10/11/20 02:32	1
cis-1,2-Dichloroethene	ND		0.50	0.11	ug/L			10/11/20 02:32	1
cis-1,3-Dichloropropene	ND		0.50	0.096	ug/L			10/11/20 02:32	1
Dibromochloromethane	ND		0.50	0.064	ug/L			10/11/20 02:32	1
Dibromomethane	ND		0.50	0.13	ug/L			10/11/20 02:32	1
Bromodichloromethane	0.0622	J	0.50	0.053	ug/L			10/11/20 02:32	1
Dichlorodifluoromethane	ND		1.0	0.099	ug/L			10/11/20 02:32	1
Ethyl methacrylate	ND		2.0	0.056	ug/L			10/11/20 02:32	1
Ethylbenzene	ND		0.50	0.087	ug/L			10/11/20 02:32	1
Iodomethane	ND		25	14	ug/L			10/11/20 02:32	1
Isobutyl alcohol	ND		10	1.9	ug/L			10/11/20 02:32	1
m,p-Xylene	ND		1.0	0.15	ug/L			10/11/20 02:32	1
Methylacrylonitrile	ND		2.0	0.42	ug/L			10/11/20 02:32	1
Methyl methacrylate	ND		2.0	0.48	ug/L			10/11/20 02:32	1
Methylene Chloride	ND		1.0	0.043	ug/L			10/11/20 02:32	1

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

Lab Sample ID: MB 570-100980/7
Matrix: Water
Analysis Batch: 100980

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.067	ug/L			10/11/20 02:32	1
Naphthalene	ND		1.0	0.097	ug/L			10/11/20 02:32	1
o-Xylene	ND		0.50	0.086	ug/L			10/11/20 02:32	1
Propionitrile	ND		5.0	1.0	ug/L			10/11/20 02:32	1
Styrene	ND		0.50	0.059	ug/L			10/11/20 02:32	1
t-Butanol	ND		10	4.0	ug/L			10/11/20 02:32	1
Tetrachloroethene	ND		0.50	0.24	ug/L			10/11/20 02:32	1
Tetrahydrofuran	ND		2.0	0.57	ug/L			10/11/20 02:32	1
Toluene	ND		0.50	0.093	ug/L			10/11/20 02:32	1
trans-1,2-Dichloroethene	ND		0.50	0.082	ug/L			10/11/20 02:32	1
trans-1,3-Dichloropropene	ND		0.50	0.053	ug/L			10/11/20 02:32	1
trans-1,4-Dichloro-2-butene	ND		2.0	0.14	ug/L			10/11/20 02:32	1
Trichloroethene	ND		0.50	0.10	ug/L			10/11/20 02:32	1
Trichlorofluoromethane	ND		0.50	0.10	ug/L			10/11/20 02:32	1
Vinyl acetate	ND		5.0	0.70	ug/L			10/11/20 02:32	1
Vinyl chloride	ND		0.50	0.078	ug/L			10/11/20 02:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.059	ug/L			10/11/20 02:32	1
2-Butanone (MEK)	ND		5.0	0.46	ug/L			10/11/20 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.42	ug/L			10/11/20 02:32	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/11/20 02:32*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 128*		*10/11/20 02:32*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 127*		*10/11/20 02:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/11/20 02:32*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 120*		*10/11/20 02:32*	*1*

Lab Sample ID: LCS 570-100980/3
Matrix: Water
Analysis Batch: 100980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	10.0	9.38		ug/L		94	80 - 120
1,1,1,2-Tetrachloroethane	10.0	10.3		ug/L		103	80 - 126
Acrolein	20.0	19.5		ug/L		98	61 - 144
Acrylonitrile	10.0	10.3		ug/L		103	53 - 130
1,1,1-Trichloroethane	10.0	8.37		ug/L		84	80 - 125
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/L		108	80 - 120
1,1,2-Trichloroethane	10.0	10.8		ug/L		108	80 - 120
1,1-Dichloroethane	10.0	9.32		ug/L		93	77 - 120
1,1-Dichloroethene	10.0	7.95		ug/L		80	74 - 128
1,1-Dichloropropene	10.0	8.44		ug/L		84	79 - 125
1,2,4-Trichlorobenzene	10.0	9.68		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	10.0	8.14		ug/L		81	67 - 120
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,2-Dichloroethane	10.0	10.3		ug/L		103	80 - 123

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

Lab Sample ID: LCS 570-100980/3
Matrix: Water
Analysis Batch: 100980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	10.2		ug/L		102	80 - 120
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	80 - 120
1,3-Dichloropropane	10.0	10.2		ug/L		102	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
2,2-Dichloropropane	10.0	7.15	*	ug/L		72	77 - 139
2-Hexanone	10.0	9.85	J	ug/L		98	66 - 129
Acetone	10.0	9.48	J	ug/L		95	58 - 131
Benzene	10.0	9.53		ug/L		95	80 - 120
Bromoform	10.0	10.0		ug/L		100	70 - 141
Bromomethane	10.0	12.0		ug/L		120	50 - 150
Carbon disulfide	10.0	8.47	J	ug/L		85	65 - 136
Carbon tetrachloride	10.0	7.70		ug/L		77	75 - 142
Chlorobenzene	10.0	10.1		ug/L		101	80 - 120
Bromochloromethane	10.0	10.1		ug/L		101	80 - 120
Chloroethane	10.0	10.1		ug/L		101	74 - 123
Chloroform	10.0	10.1		ug/L		101	80 - 120
Chloromethane	10.0	11.1		ug/L		111	54 - 140
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	80 - 121
cis-1,3-Dichloropropene	10.0	9.50		ug/L		95	80 - 120
Dibromochloromethane	10.0	10.4		ug/L		104	80 - 128
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Bromodichloromethane	10.0	10.6		ug/L		106	80 - 126
Dichlorodifluoromethane	10.0	10.2		ug/L		102	63 - 135
Ethylbenzene	10.0	9.59		ug/L		96	80 - 120
m,p-Xylene	20.0	19.7		ug/L		99	80 - 120
Methylene Chloride	10.0	9.72		ug/L		97	71 - 125
Methyl tert-butyl ether	10.0	9.11		ug/L		91	70 - 121
Naphthalene	10.0	8.81		ug/L		88	80 - 125
o-Xylene	10.0	10.1		ug/L		101	80 - 120
Styrene	10.0	10.6		ug/L		106	80 - 120
t-Butanol	50.0	52.6		ug/L		105	77 - 124
Tetrachloroethene	10.0	8.80		ug/L		88	80 - 126
Toluene	10.0	9.61		ug/L		96	80 - 120
trans-1,2-Dichloroethene	10.0	8.86		ug/L		89	74 - 121
trans-1,3-Dichloropropene	10.0	9.42		ug/L		94	80 - 123
Trichloroethene	10.0	9.36		ug/L		94	80 - 120
Trichlorofluoromethane	10.0	10.8		ug/L		108	74 - 137
Vinyl acetate	10.0	9.56		ug/L		96	50 - 150
Vinyl chloride	10.0	10.3		ug/L		103	72 - 126
1,2-Dibromoethane (EDB)	10.0	10.4		ug/L		104	80 - 120
2-Butanone (MEK)	10.0	8.40		ug/L		84	50 - 127
4-Methyl-2-pentanone (MIBK)	10.0	9.98		ug/L		100	72 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 128*
Dibromofluoromethane (Surr)	*103*		*80 - 127*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*68 - 120*

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

Lab Sample ID: LCSD 570-100980/4
Matrix: Water
Analysis Batch: 100980

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	10.0	9.15		ug/L		92	80 - 120	3	14
1,1,1,2-Tetrachloroethane	10.0	9.92		ug/L		99	80 - 126	4	11
Acrolein	20.0	18.7		ug/L		94	61 - 144	4	30
Acrylonitrile	10.0	9.66		ug/L		97	53 - 130	6	30
1,1,1-Trichloroethane	10.0	8.04		ug/L		80	80 - 125	4	14
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/L		103	80 - 120	5	16
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	80 - 120	5	13
1,1-Dichloroethane	10.0	8.79		ug/L		88	77 - 120	6	14
1,1-Dichloroethene	10.0	7.58		ug/L		76	74 - 128	5	17
1,1-Dichloropropene	10.0	7.80	*	ug/L		78	79 - 125	8	14
1,2,4-Trichlorobenzene	10.0	9.59		ug/L		96	80 - 120	1	16
1,2-Dibromo-3-Chloropropane	10.0	8.89		ug/L		89	67 - 120	9	20
1,2-Dichlorobenzene	10.0	9.91		ug/L		99	80 - 120	5	14
1,2-Dichloroethane	10.0	10.1		ug/L		101	80 - 123	2	10
1,2-Dichloropropane	10.0	9.64		ug/L		96	80 - 120	6	11
1,3-Dichlorobenzene	10.0	9.41		ug/L		94	80 - 120	7	15
1,3-Dichloropropane	10.0	9.90		ug/L		99	80 - 120	3	13
1,4-Dichlorobenzene	10.0	9.46		ug/L		95	80 - 120	7	15
2,2-Dichloropropane	10.0	6.76	*	ug/L		68	77 - 139	6	16
2-Hexanone	10.0	9.61	J	ug/L		96	66 - 129	2	21
Acetone	10.0	9.99	J	ug/L		100	58 - 131	5	30
Benzene	10.0	8.89		ug/L		89	80 - 120	7	12
Bromoform	10.0	10.0		ug/L		100	70 - 141	0	15
Bromomethane	10.0	10.8		ug/L		108	50 - 150	10	22
Carbon disulfide	10.0	7.99	J	ug/L		80	65 - 136	6	17
Carbon tetrachloride	10.0	7.55		ug/L		76	75 - 142	2	15
Chlorobenzene	10.0	9.72		ug/L		97	80 - 120	4	12
Bromochloromethane	10.0	9.68		ug/L		97	80 - 120	4	12
Chloroethane	10.0	9.70		ug/L		97	74 - 123	4	17
Chloroform	10.0	9.47		ug/L		95	80 - 120	6	12
Chloromethane	10.0	10.3		ug/L		103	54 - 140	8	19
cis-1,2-Dichloroethene	10.0	9.67		ug/L		97	80 - 121	4	13
cis-1,3-Dichloropropene	10.0	9.16		ug/L		92	80 - 120	4	12
Dibromochloromethane	10.0	10.2		ug/L		102	80 - 128	2	11
Dibromomethane	10.0	10.3		ug/L		103	80 - 120	5	11
Bromodichloromethane	10.0	9.99		ug/L		100	80 - 126	6	11
Dichlorodifluoromethane	10.0	9.66		ug/L		97	63 - 135	5	17
Ethylbenzene	10.0	9.13		ug/L		91	80 - 120	5	13
m,p-Xylene	20.0	18.7		ug/L		94	80 - 120	5	13
Methylene Chloride	10.0	9.10		ug/L		91	71 - 125	7	19
Methyl tert-butyl ether	10.0	8.84		ug/L		88	70 - 121	3	11
Naphthalene	10.0	8.78		ug/L		88	80 - 125	0	16
o-Xylene	10.0	9.52		ug/L		95	80 - 120	5	12
Styrene	10.0	9.95		ug/L		100	80 - 120	7	12
t-Butanol	50.0	50.2		ug/L		100	77 - 124	5	23
Tetrachloroethene	10.0	8.32		ug/L		83	80 - 126	6	15
Toluene	10.0	9.05		ug/L		91	80 - 120	6	13
trans-1,2-Dichloroethene	10.0	8.40		ug/L		84	74 - 121	5	14

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

Lab Sample ID: LCSD 570-100980/4
Matrix: Water
Analysis Batch: 100980

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			10.0	9.13		ug/L		91	80 - 123	3	13
Trichloroethene			10.0	8.67		ug/L		87	80 - 120	8	14
Trichlorofluoromethane			10.0	9.98		ug/L		100	74 - 137	7	16
Vinyl acetate			10.0	9.90		ug/L		99	50 - 150	3	28
Vinyl chloride			10.0	9.95		ug/L		99	72 - 126	4	17
1,2-Dibromoethane (EDB)			10.0	10.4		ug/L		104	80 - 120	1	12
2-Butanone (MEK)			10.0	9.20		ug/L		92	50 - 127	9	26
4-Methyl-2-pentanone (MIBK)			10.0	9.82		ug/L		98	72 - 120	2	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 128*
Dibromofluoromethane (Surr)	*105*		*80 - 127*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*68 - 120*

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

Lab Sample ID: MB 570-99867/1-A
Matrix: Water
Analysis Batch: 100088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
Acetophenone	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosomethylethylamine	ND		10	2.1	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosopiperidine	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 17:05	1
1,4-phenylenediamine	ND		50	1.6	ug/L		10/06/20 17:03	10/07/20 17:05	1
3,3'-Dimethylbenzidine	ND		100	0.85	ug/L		10/06/20 17:03	10/07/20 17:05	1
Isosafrole	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
alpha,alpha-Dimethyl phenethylamine	ND		100	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
Diphenylamine	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 17:05	1
o,o',o''-Triethylphosphorothioate	ND		50	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
1,4-Naphthoquinone	ND		20	0.76	ug/L		10/06/20 17:03	10/07/20 17:05	1
1-Naphthylamine	ND		20	0.79	ug/L		10/06/20 17:03	10/07/20 17:05	1
Kepone	ND		50	2.2	ug/L		10/06/20 17:03	10/07/20 17:05	1
Diallate	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
Pronamide	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 17:05	1
Phorate	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
Isodrin	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 17:05	1
Ethyl 4,4'-Dichlorobenzilate	ND		50	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
2-Acetylaminofluorene	ND		20	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosodiethylamine	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosodiethylamine	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 17:05	1
7,12-Dimethylbenz(a)anthracene	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
2,3,4,6-Tetrachlorophenol	ND		50	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
Dimethyl aminoazobenzene	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 17:05	1
Pentachlorobenzene	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 17:05	1
Phenacetin	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 17:05	1
Ethyl methanesulfonate	ND		20	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1

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

Lab Sample ID: MB 570-99867/1-A
Matrix: Water
Analysis Batch: 100088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methanesulfonate	ND		20	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
Pentachloronitrobenzene	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
2,6-Dichlorophenol	ND		10	1.5	ug/L		10/06/20 17:03	10/07/20 17:05	1
2-Naphthylamine	ND		50	0.81	ug/L		10/06/20 17:03	10/07/20 17:05	1
Methapyrilene	ND		50	3.1	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosodi-n-butylamine	ND		10	1.4	ug/L		10/06/20 17:03	10/07/20 17:05	1
4-Aminobiphenyl	ND		20	0.57	ug/L		10/06/20 17:03	10/07/20 17:05	1
N-Nitrosopyrrolidine	ND		10	1.2	ug/L		10/06/20 17:03	10/07/20 17:05	1
Safrole, Total	ND		10	1.3	ug/L		10/06/20 17:03	10/07/20 17:05	1
o-Toluidine	ND		10	0.53	ug/L		10/06/20 17:03	10/07/20 17:05	1
1,2,4,5-Tetrachlorobenzene	ND		10	1.0	ug/L		10/06/20 17:03	10/07/20 17:05	1
5-Nitro-o-toluidine	ND		10	0.86	ug/L		10/06/20 17:03	10/07/20 17:05	1
3-Methylcholanthrene	ND		20	1.0	ug/L		10/06/20 17:03	10/07/20 17:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*55*		*15 - 138*	*10/06/20 17:03*	*10/07/20 17:05*	*1*
Nitrobenzene-d5 (Surr)	*76*		*56 - 123*	*10/06/20 17:03*	*10/07/20 17:05*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 143*	*10/06/20 17:03*	*10/07/20 17:05*	*1*
Phenol-d6 (Surr)	*32*		*17 - 141*	*10/06/20 17:03*	*10/07/20 17:05*	*1*

Lab Sample ID: LCS 570-99867/2-A
Matrix: Water
Analysis Batch: 100088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	100	81.0		ug/L		81	50 - 150
Acetophenone	100	86.7		ug/L		87	50 - 150
Isosafrole	100	81.7		ug/L		82	50 - 150
Diphenylamine	100	86.5		ug/L		86	50 - 150
1,4-Naphthoquinone	100	79.7		ug/L		80	50 - 150
Kepone	100	48.0	J *	ug/L		48	50 - 150
Isodrin	100	89.6		ug/L		90	50 - 150
Ethyl 4,4'-Dichlorobenzilate	100	105		ug/L		105	50 - 150
2,3,4,6-Tetrachlorophenol	100	87.9		ug/L		88	50 - 150
Pentachlorobenzene	100	85.8		ug/L		86	50 - 150
Phenacetin	100	105		ug/L		105	50 - 150
Ethyl methanesulfonate	100	98.7		ug/L		99	50 - 150
Methyl methanesulfonate	100	80.3		ug/L		80	50 - 150
Pentachloronitrobenzene	100	105		ug/L		105	50 - 150
2,6-Dichlorophenol	100	80.5		ug/L		80	42 - 120
Safrole, Total	100	85.4		ug/L		85	50 - 150
1,2,4,5-Tetrachlorobenzene	100	84.2		ug/L		84	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*63*		*15 - 138*
Nitrobenzene-d5 (Surr)	*81*		*56 - 123*
2,4,6-Tribromophenol (Surr)	*83*		*32 - 143*
Phenol-d6 (Surr)	*39*		*17 - 141*

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

Lab Sample ID: LCSD 570-99867/3-A
Matrix: Water
Analysis Batch: 100088

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99867

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone			100	80.8		ug/L		81	50 - 150	0	30
Acetophenone			100	86.4		ug/L		86	50 - 150	0	30
Isosafrole			100	86.4		ug/L		86	50 - 150	6	30
Diphenylamine			100	95.0		ug/L		95	50 - 150	9	30
1,4-Naphthoquinone			100	88.6		ug/L		89	50 - 150	11	30
Kepone			100	49.2	J *	ug/L		49	50 - 150	2	30
Isodrin			100	80.8		ug/L		81	50 - 150	10	30
Ethyl 4,4'-Dichlorobenzilate			100	95.8		ug/L		96	50 - 150	10	30
2,3,4,6-Tetrachlorophenol			100	92.8		ug/L		93	50 - 150	5	30
Pentachlorobenzene			100	92.8		ug/L		93	50 - 150	8	30
Phenacetin			100	102		ug/L		102	50 - 150	3	30
Ethyl methanesulfonate			100	88.3		ug/L		88	50 - 150	11	30
Methyl methanesulfonate			100	77.4		ug/L		77	50 - 150	4	30
Pentachloronitrobenzene			100	111		ug/L		111	50 - 150	6	30
2,6-Dichlorophenol			100	81.5		ug/L		81	42 - 120	1	21
Safrole, Total			100	87.6		ug/L		88	50 - 150	2	30
1,2,4,5-Tetrachlorobenzene			100	87.2		ug/L		87	50 - 150	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*62*		*15 - 138*
Nitrobenzene-d5 (Surr)	*81*		*56 - 123*
2,4,6-Tribromophenol (Surr)	*79*		*32 - 143*
Phenol-d6 (Surr)	*38*		*17 - 141*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 570-100608/1-A
Matrix: Water
Analysis Batch: 101406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	0.77	ug/L		10/09/20 07:47	10/13/20 13:18	1
1,2-Dichlorobenzene	ND		5.0	0.76	ug/L		10/09/20 07:47	10/13/20 13:18	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		5.0	0.43	ug/L		10/09/20 07:47	10/13/20 13:18	1
1,3-Dichlorobenzene	ND		5.0	0.78	ug/L		10/09/20 07:47	10/13/20 13:18	1
1,4-Dichlorobenzene	ND		5.0	0.82	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4,5-Trichlorophenol	ND		5.0	0.95	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4,6-Trichlorophenol	ND		5.0	0.73	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4-Dichlorophenol	ND		5.0	0.84	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4-Dimethylphenol	ND		5.0	0.42	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4-Dinitrophenol	ND		25	9.6	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,4-Dinitrotoluene	ND		5.0	0.90	ug/L		10/09/20 07:47	10/13/20 13:18	1
3 & 4 Methylphenol	ND		5.0	1.4	ug/L		10/09/20 07:47	10/13/20 13:18	1
2,6-Dinitrotoluene	ND		5.0	0.85	ug/L		10/09/20 07:47	10/13/20 13:18	1
2-Chloronaphthalene	ND		5.0	0.70	ug/L		10/09/20 07:47	10/13/20 13:18	1
2-Chlorophenol	ND		5.0	0.84	ug/L		10/09/20 07:47	10/13/20 13:18	1
2-Methylnaphthalene	ND		5.0	0.64	ug/L		10/09/20 07:47	10/13/20 13:18	1
2-Methylphenol	ND		5.0	0.65	ug/L		10/09/20 07:47	10/13/20 13:18	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 570-100608/1-A
Matrix: Water
Analysis Batch: 101406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		5.0	1.0	ug/L		10/09/20 07:47	10/13/20 13:18	1
2-Nitrophenol	ND		5.0	1.3	ug/L		10/09/20 07:47	10/13/20 13:18	1
3,3'-Dichlorobenzidine	ND		12	4.1	ug/L		10/09/20 07:47	10/13/20 13:18	1
3-Nitroaniline	ND		5.0	0.75	ug/L		10/09/20 07:47	10/13/20 13:18	1
4,6-Dinitro-2-methylphenol	ND		25	10	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Bromophenyl phenyl ether	ND		5.0	0.64	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Chloro-3-methylphenol	ND		5.0	0.78	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Chloroaniline	ND		5.0	0.79	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Chlorophenyl phenyl ether	ND		5.0	0.73	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Nitroaniline	ND		5.0	0.49	ug/L		10/09/20 07:47	10/13/20 13:18	1
4-Nitrophenol	ND		5.0	0.80	ug/L		10/09/20 07:47	10/13/20 13:18	1
Acenaphthene	ND		5.0	0.71	ug/L		10/09/20 07:47	10/13/20 13:18	1
Acenaphthylene	ND		5.0	0.78	ug/L		10/09/20 07:47	10/13/20 13:18	1
Aniline	ND		5.0	0.60	ug/L		10/09/20 07:47	10/13/20 13:18	1
Anthracene	ND		5.0	0.63	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzidine	ND		25	14	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzo[a]anthracene	ND		5.0	0.79	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzo[a]pyrene	ND		5.0	1.0	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzo[b]fluoranthene	ND		5.0	1.0	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzo[g,h,i]perylene	ND		5.0	1.1	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzo[k]fluoranthene	ND		5.0	0.96	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzoic acid	ND		25	12	ug/L		10/09/20 07:47	10/13/20 13:18	1
Benzyl alcohol	ND		5.0	0.96	ug/L		10/09/20 07:47	10/13/20 13:18	1
Bis(2-chloroethoxy)methane	ND		5.0	0.77	ug/L		10/09/20 07:47	10/13/20 13:18	1
Bis(2-chloroethyl)ether	ND		12	0.73	ug/L		10/09/20 07:47	10/13/20 13:18	1
Bis(2-ethylhexyl) phthalate	ND		5.0	1.9	ug/L		10/09/20 07:47	10/13/20 13:18	1
Butyl benzyl phthalate	ND		5.0	1.7	ug/L		10/09/20 07:47	10/13/20 13:18	1
Chrysene	ND		5.0	0.73	ug/L		10/09/20 07:47	10/13/20 13:18	1
Dibenz(a,h)anthracene	ND		5.0	1.4	ug/L		10/09/20 07:47	10/13/20 13:18	1
Dibenzofuran	ND		5.0	0.63	ug/L		10/09/20 07:47	10/13/20 13:18	1
Diethyl phthalate	ND		5.0	0.70	ug/L		10/09/20 07:47	10/13/20 13:18	1
Dimethyl phthalate	ND		5.0	0.59	ug/L		10/09/20 07:47	10/13/20 13:18	1
Fluoranthene	ND		5.0	0.75	ug/L		10/09/20 07:47	10/13/20 13:18	1
Fluorene	ND		5.0	0.80	ug/L		10/09/20 07:47	10/13/20 13:18	1
Hexachlorobenzene	ND		5.0	0.45	ug/L		10/09/20 07:47	10/13/20 13:18	1
Hexachlorobutadiene	ND		5.0	1.0	ug/L		10/09/20 07:47	10/13/20 13:18	1
Hexachlorocyclopentadiene	ND		12	5.6	ug/L		10/09/20 07:47	10/13/20 13:18	1
Hexachloroethane	ND		5.0	1.0	ug/L		10/09/20 07:47	10/13/20 13:18	1
Indeno[1,2,3-cd]pyrene	ND		5.0	1.2	ug/L		10/09/20 07:47	10/13/20 13:18	1
Isophorone	ND		5.0	0.85	ug/L		10/09/20 07:47	10/13/20 13:18	1
Naphthalene	ND		5.0	0.75	ug/L		10/09/20 07:47	10/13/20 13:18	1
Nitrobenzene	ND		12	0.70	ug/L		10/09/20 07:47	10/13/20 13:18	1
N-Nitrosodimethylamine	ND		5.0	0.52	ug/L		10/09/20 07:47	10/13/20 13:18	1
N-Nitrosodi-n-propylamine	ND		5.0	0.97	ug/L		10/09/20 07:47	10/13/20 13:18	1
N-Nitrosodiphenylamine	ND		5.0	0.74	ug/L		10/09/20 07:47	10/13/20 13:18	1
Pentachlorophenol	ND		5.0	4.9	ug/L		10/09/20 07:47	10/13/20 13:18	1
Phenanthrene	ND		5.0	0.73	ug/L		10/09/20 07:47	10/13/20 13:18	1
Phenol	ND		5.0	0.28	ug/L		10/09/20 07:47	10/13/20 13:18	1
bis (2-chloroisopropyl) ether	ND		5.0	0.97	ug/L		10/09/20 07:47	10/13/20 13:18	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 570-100608/1-A
Matrix: Water
Analysis Batch: 101406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		5.0	2.3	ug/L		10/09/20 07:47	10/13/20 13:18	1
Di-n-octyl phthalate	ND		5.0	2.2	ug/L		10/09/20 07:47	10/13/20 13:18	1
Pyrene	ND		5.0	0.85	ug/L		10/09/20 07:47	10/13/20 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*32 - 143*	*10/09/20 07:47*	*10/13/20 13:18*	*1*
2-Fluorophenol (Surr)	*46*		*15 - 138*	*10/09/20 07:47*	*10/13/20 13:18*	*1*
Nitrobenzene-d5 (Surr)	*71*		*56 - 123*	*10/09/20 07:47*	*10/13/20 13:18*	*1*
Phenol-d6 (Surr)	*29*		*17 - 141*	*10/09/20 07:47*	*10/13/20 13:18*	*1*

Lab Sample ID: LCS 570-100608/2-A
Matrix: Water
Analysis Batch: 101135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	36.6		ug/L		73	42 - 120
1,2-Dichlorobenzene	50.0	31.3	*	ug/L		63	70 - 130
1,3-Dichlorobenzene	50.0	29.5	*	ug/L		59	70 - 130
1,4-Dichlorobenzene	50.0	29.2		ug/L		58	36 - 118
2,4,5-Trichlorophenol	50.0	43.1		ug/L		86	70 - 130
2,4,6-Trichlorophenol	50.0	42.6		ug/L		85	70 - 130
2,4-Dichlorophenol	50.0	43.6		ug/L		87	70 - 130
2,4-Dimethylphenol	50.0	40.3		ug/L		81	70 - 130
2,4-Dinitrophenol	50.0	56.0		ug/L		112	70 - 130
2,4-Dinitrotoluene	50.0	50.1		ug/L		100	25 - 143
3 & 4 Methylphenol	100	66.5	*	ug/L		66	70 - 130
2,6-Dinitrotoluene	50.0	48.0		ug/L		96	70 - 130
2-Chloronaphthalene	50.0	40.7		ug/L		81	70 - 130
2-Chlorophenol	50.0	40.4		ug/L		81	45 - 135
2-Methylnaphthalene	50.0	42.1		ug/L		84	70 - 130
2-Methylphenol	50.0	39.0		ug/L		78	70 - 130
2-Nitroaniline	50.0	45.0		ug/L		90	70 - 130
2-Nitrophenol	50.0	42.1		ug/L		84	70 - 130
3,3'-Dichlorobenzidine	50.0	45.5		ug/L		91	70 - 130
3-Nitroaniline	50.0	47.8		ug/L		96	70 - 130
4,6-Dinitro-2-methylphenol	50.0	44.7		ug/L		89	70 - 130
4-Bromophenyl phenyl ether	50.0	45.0		ug/L		90	70 - 130
4-Chloro-3-methylphenol	50.0	45.7		ug/L		91	20 - 150
4-Chloroaniline	50.0	43.4		ug/L		87	70 - 130
4-Chlorophenyl phenyl ether	50.0	45.0		ug/L		90	70 - 130
4-Nitroaniline	50.0	48.3		ug/L		97	70 - 130
4-Nitrophenol	50.0	23.5		ug/L		47	20 - 150
Acenaphthene	50.0	44.4		ug/L		89	51 - 137
Acenaphthylene	50.0	47.4		ug/L		95	70 - 130
Aniline	50.0	40.0		ug/L		80	70 - 130
Anthracene	50.0	45.8		ug/L		92	70 - 130
Benzidine	50.0	51.3		ug/L		103	70 - 130
Benzo[a]anthracene	50.0	48.2		ug/L		96	70 - 130

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 570-100608/2-A
Matrix: Water
Analysis Batch: 101135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	50.0	49.0		ug/L		98	70 - 130
Benzo[b]fluoranthene	50.0	43.9		ug/L		88	70 - 130
Benzo[g,h,i]perylene	50.0	48.0		ug/L		96	70 - 130
Benzo[k]fluoranthene	50.0	45.2		ug/L		90	70 - 130
Benzoic acid	50.0	25.8	*	ug/L		52	70 - 130
Benzyl alcohol	50.0	40.2		ug/L		80	70 - 130
Bis(2-chloroethoxy)methane	50.0	42.8		ug/L		86	70 - 130
Bis(2-chloroethyl)ether	50.0	41.5		ug/L		83	70 - 130
Bis(2-ethylhexyl) phthalate	50.0	46.6		ug/L		93	70 - 130
Butyl benzyl phthalate	50.0	44.9		ug/L		90	70 - 130
Chrysene	50.0	44.6		ug/L		89	70 - 130
Dibenz(a,h)anthracene	50.0	46.2		ug/L		92	70 - 130
Dibenzofuran	50.0	41.7		ug/L		83	70 - 130
Diethyl phthalate	50.0	46.1		ug/L		92	70 - 130
Dimethyl phthalate	50.0	44.9		ug/L		90	70 - 130
Fluoranthene	50.0	45.9		ug/L		92	70 - 130
Fluorene	50.0	46.2		ug/L		92	70 - 130
Hexachlorobenzene	50.0	44.4		ug/L		89	70 - 130
Hexachlorobutadiene	50.0	35.5		ug/L		71	70 - 130
Hexachlorocyclopentadiene	50.0	48.0		ug/L		96	70 - 130
Hexachloroethane	50.0	28.5	*	ug/L		57	70 - 130
Indeno[1,2,3-cd]pyrene	50.0	45.4		ug/L		91	70 - 130
Isophorone	50.0	45.2		ug/L		90	70 - 130
Naphthalene	50.0	38.3		ug/L		77	70 - 130
Nitrobenzene	50.0	40.1		ug/L		80	70 - 130
N-Nitrosodimethylamine	50.0	32.6	*	ug/L		65	70 - 130
N-Nitrosodi-n-propylamine	50.0	45.3		ug/L		91	52 - 128
N-Nitrosodiphenylamine	50.0	50.9		ug/L		102	70 - 130
Pentachlorophenol	50.0	40.6		ug/L		81	20 - 150
Phenanthrene	50.0	44.9		ug/L		90	70 - 130
Phenol	50.0	20.1		ug/L		40	12 - 151
bis (2-chloroisopropyl) ether	50.0	44.8		ug/L		90	70 - 130
Di-n-butyl phthalate	50.0	45.1		ug/L		90	70 - 130
Di-n-octyl phthalate	50.0	48.0		ug/L		96	70 - 130
Pyrene	50.0	46.6		ug/L		93	45 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*32 - 143*
2-Fluorophenol (Surr)	*55*		*15 - 138*
Nitrobenzene-d5 (Surr)	*78*		*56 - 123*
Phenol-d6 (Surr)	*39*		*17 - 141*

Lab Sample ID: LCSD 570-100608/3-A
Matrix: Water
Analysis Batch: 101135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	35.4		ug/L		71	42 - 120	3	21

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 570-100608/3-A
Matrix: Water
Analysis Batch: 101135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100608

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	31.3	*	ug/L		63	70 - 130	0	20
1,3-Dichlorobenzene			50.0	29.0	*	ug/L		58	70 - 130	2	20
1,4-Dichlorobenzene			50.0	28.9		ug/L		58	36 - 118	1	26
2,4,5-Trichlorophenol			50.0	43.8		ug/L		88	70 - 130	1	20
2,4,6-Trichlorophenol			50.0	43.1		ug/L		86	70 - 130	1	20
2,4-Dichlorophenol			50.0	43.2		ug/L		86	70 - 130	1	20
2,4-Dimethylphenol			50.0	40.0		ug/L		80	70 - 130	1	20
2,4-Dinitrophenol			50.0	56.2		ug/L		112	70 - 130	0	20
2,4-Dinitrotoluene			50.0	50.8		ug/L		102	25 - 143	1	36
3 & 4 Methylphenol			100	68.2	*	ug/L		68	70 - 130	3	20
2,6-Dinitrotoluene			50.0	49.2		ug/L		98	70 - 130	2	20
2-Chloronaphthalene			50.0	40.6		ug/L		81	70 - 130	0	20
2-Chlorophenol			50.0	40.3		ug/L		81	45 - 135	0	18
2-Methylnaphthalene			50.0	42.3		ug/L		85	70 - 130	0	20
2-Methylphenol			50.0	40.7		ug/L		81	70 - 130	4	20
2-Nitroaniline			50.0	44.6		ug/L		89	70 - 130	1	20
2-Nitrophenol			50.0	41.2		ug/L		82	70 - 130	2	20
3,3'-Dichlorobenzidine			50.0	45.1		ug/L		90	70 - 130	1	20
3-Nitroaniline			50.0	47.1		ug/L		94	70 - 130	1	20
4,6-Dinitro-2-methylphenol			50.0	43.5		ug/L		87	70 - 130	3	20
4-Bromophenyl phenyl ether			50.0	44.5		ug/L		89	70 - 130	1	20
4-Chloro-3-methylphenol			50.0	45.6		ug/L		91	20 - 150	0	40
4-Chloroaniline			50.0	41.4		ug/L		83	70 - 130	5	20
4-Chlorophenyl phenyl ether			50.0	46.0		ug/L		92	70 - 130	2	20
4-Nitroaniline			50.0	49.1		ug/L		98	70 - 130	2	20
4-Nitrophenol			50.0	23.4		ug/L		47	20 - 150	0	40
Acenaphthene			50.0	45.2		ug/L		90	51 - 137	2	11
Acenaphthylene			50.0	47.8		ug/L		96	70 - 130	1	20
Aniline			50.0	39.4		ug/L		79	70 - 130	2	20
Anthracene			50.0	45.1		ug/L		90	70 - 130	1	20
Benzidine			50.0	50.4		ug/L		101	70 - 130	2	20
Benzo[a]anthracene			50.0	48.9		ug/L		98	70 - 130	1	20
Benzo[a]pyrene			50.0	49.9		ug/L		100	70 - 130	2	20
Benzo[b]fluoranthene			50.0	45.1		ug/L		90	70 - 130	3	20
Benzo[g,h,i]perylene			50.0	48.0		ug/L		96	70 - 130	0	20
Benzo[k]fluoranthene			50.0	45.5		ug/L		91	70 - 130	1	20
Benzoic acid			50.0	25.3	*	ug/L		51	70 - 130	2	20
Benzyl alcohol			50.0	39.8		ug/L		80	70 - 130	1	20
Bis(2-chloroethoxy)methane			50.0	42.2		ug/L		84	70 - 130	1	20
Bis(2-chloroethyl)ether			50.0	40.8		ug/L		82	70 - 130	2	20
Bis(2-ethylhexyl) phthalate			50.0	47.0		ug/L		94	70 - 130	1	20
Butyl benzyl phthalate			50.0	45.7		ug/L		91	70 - 130	2	20
Chrysene			50.0	44.6		ug/L		89	70 - 130	0	20
Dibenz(a,h)anthracene			50.0	46.9		ug/L		94	70 - 130	2	20
Dibenzofuran			50.0	42.4		ug/L		85	70 - 130	2	20
Diethyl phthalate			50.0	46.3		ug/L		93	70 - 130	0	20
Dimethyl phthalate			50.0	44.8		ug/L		90	70 - 130	0	20
Fluoranthene			50.0	45.1		ug/L		90	70 - 130	2	20
Fluorene			50.0	47.2		ug/L		94	70 - 130	2	20

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 570-100608/3-A
Matrix: Water
Analysis Batch: 101135

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	50.0	44.4		ug/L		89	70 - 130	0	20
Hexachlorobutadiene	50.0	34.3	*	ug/L		69	70 - 130	3	20
Hexachlorocyclopentadiene	50.0	47.6		ug/L		95	70 - 130	1	20
Hexachloroethane	50.0	27.6	*	ug/L		55	70 - 130	3	20
Indeno[1,2,3-cd]pyrene	50.0	46.3		ug/L		93	70 - 130	2	20
Isophorone	50.0	43.7		ug/L		87	70 - 130	3	20
Naphthalene	50.0	38.0		ug/L		76	70 - 130	1	20
Nitrobenzene	50.0	38.6		ug/L		77	70 - 130	4	20
N-Nitrosodimethylamine	50.0	30.0	*	ug/L		60	70 - 130	8	20
N-Nitrosodi-n-propylamine	50.0	45.0		ug/L		90	52 - 128	1	13
N-Nitrosodiphenylamine	50.0	51.1		ug/L		102	70 - 130	0	20
Pentachlorophenol	50.0	39.7		ug/L		79	20 - 150	2	40
Phenanthrene	50.0	44.6		ug/L		89	70 - 130	1	20
Phenol	50.0	20.1		ug/L		40	12 - 151	0	23
bis (2-chloroisopropyl) ether	50.0	46.7		ug/L		93	70 - 130	4	20
Di-n-butyl phthalate	50.0	45.1		ug/L		90	70 - 130	0	20
Di-n-octyl phthalate	50.0	47.3		ug/L		95	70 - 130	1	20
Pyrene	50.0	46.9		ug/L		94	45 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*94*		*32 - 143*
2-Fluorophenol (Surr)	*55*		*15 - 138*
Nitrobenzene-d5 (Surr)	*75*		*56 - 123*
Phenol-d6 (Surr)	*38*		*17 - 141*

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 570-100001/1-A
Matrix: Water
Analysis Batch: 100093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.50	0.18	ug/L		10/07/20 07:48	10/08/20 11:01	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*48*		*15 - 150*	*10/07/20 07:48*	*10/08/20 11:01*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*69*		*46 - 128*	*10/07/20 07:48*	*10/08/20 11:01*	*1*

Lab Sample ID: LCS 570-100001/2-A
Matrix: Water
Analysis Batch: 100093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	20.0	19.0		ug/L		95	57 - 136

Method: 8270C SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	45		15 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	70		46 - 128

Lab Sample ID: LCSD 570-100001/3-A
Matrix: Water
Analysis Batch: 100093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100001

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			20.0	17.8		ug/L		89	57 - 136	7	20

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8	46		15 - 150

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	66		46 - 128

Lab Sample ID: 440-272708-1 MS
Matrix: Water
Analysis Batch: 100093

Client Sample ID: LR-2R
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	360	E	19.9	377	E 4	ug/L		101	45 - 139		

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
1,4-Dioxane-d8	67		15 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	81		46 - 128

Lab Sample ID: 440-272708-1 MSD
Matrix: Water
Analysis Batch: 100093

Client Sample ID: LR-2R
Prep Type: Total/NA
Prep Batch: 100001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	360	E	19.9	377	E 4	ug/L		100	45 - 139	0	17

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
1,4-Dioxane-d8	65		15 - 150

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	65		46 - 128

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-99960/1-A
Matrix: Water
Analysis Batch: 100502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.020	0.0080	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endosulfan sulfate	ND		0.050	0.014	ug/L		10/07/20 07:27	10/09/20 05:07	1
Aldrin	ND		0.050	0.011	ug/L		10/07/20 07:27	10/09/20 05:07	1
alpha-BHC	ND		0.020	0.0095	ug/L		10/07/20 07:27	10/09/20 05:07	1
beta-BHC	ND		0.020	0.0075	ug/L		10/07/20 07:27	10/09/20 05:07	1
delta-BHC	ND		0.020	0.0075	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endosulfan II	ND		0.050	0.011	ug/L		10/07/20 07:27	10/09/20 05:07	1
4,4'-DDT	ND		0.050	0.026	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endrin ketone	ND		0.050	0.013	ug/L		10/07/20 07:27	10/09/20 05:07	1
Chlordane (technical)	ND		0.10	0.037	ug/L		10/07/20 07:27	10/09/20 05:07	1
gamma-BHC (Lindane)	ND		0.020	0.0070	ug/L		10/07/20 07:27	10/09/20 05:07	1
Dieldrin	ND		0.050	0.012	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endrin	ND		0.020	0.010	ug/L		10/07/20 07:27	10/09/20 05:07	1
Methoxychlor	ND		0.050	0.020	ug/L		10/07/20 07:27	10/09/20 05:07	1
4,4'-DDD	ND		0.050	0.014	ug/L		10/07/20 07:27	10/09/20 05:07	1
4,4'-DDE	ND		0.020	0.0085	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endrin aldehyde	ND		0.10	0.032	ug/L		10/07/20 07:27	10/09/20 05:07	1
Heptachlor	ND		0.020	0.0075	ug/L		10/07/20 07:27	10/09/20 05:07	1
Toxaphene	ND		0.30	0.15	ug/L		10/07/20 07:27	10/09/20 05:07	1
Endosulfan I	ND		0.050	0.012	ug/L		10/07/20 07:27	10/09/20 05:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*20 - 139*	*10/07/20 07:27*	*10/09/20 05:07*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*20 - 154*	*10/07/20 07:27*	*10/09/20 05:07*	*1*

Lab Sample ID: LCS 570-99960/2-A
Matrix: Water
Analysis Batch: 100502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.250	0.202		ug/L		81	54 - 148
Endosulfan sulfate	0.250	0.193		ug/L		77	50 - 145
Aldrin	0.250	0.188		ug/L		75	26 - 148
alpha-BHC	0.250	0.201		ug/L		80	53 - 151
beta-BHC	0.250	0.189		ug/L		76	53 - 144
delta-BHC	0.250	0.171		ug/L		68	29 - 163
Endosulfan II	0.250	0.210		ug/L		84	53 - 145
4,4'-DDT	0.250	0.183		ug/L		73	15 - 169
Endrin ketone	0.250	0.201		ug/L		80	28 - 175
gamma-BHC (Lindane)	0.250	0.204		ug/L		82	57 - 143
Dieldrin	0.250	0.207		ug/L		83	49 - 151
Endrin	0.250	0.207		ug/L		83	49 - 152
Methoxychlor	0.250	0.201		ug/L		80	12 - 172
4,4'-DDD	0.250	0.208		ug/L		83	52 - 165
4,4'-DDE	0.250	0.197		ug/L		79	52 - 150
Endrin aldehyde	0.250	0.217		ug/L		87	35 - 145
Heptachlor	0.250	0.201		ug/L		81	30 - 148
Endosulfan I	0.250	0.193		ug/L		77	43 - 144

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-99960/2-A
Matrix: Water
Analysis Batch: 100502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99960

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		20 - 139
DCB Decachlorobiphenyl (Surr)	65		20 - 154

Lab Sample ID: LCSD 570-99960/3-A
Matrix: Water
Analysis Batch: 100502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99960

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide			0.250	0.213		ug/L		85	54 - 148	6	28
Endosulfan sulfate			0.250	0.198		ug/L		79	50 - 145	3	25
Aldrin			0.250	0.194		ug/L		78	26 - 148	3	61
alpha-BHC			0.250	0.207		ug/L		83	53 - 151	3	34
beta-BHC			0.250	0.195		ug/L		78	53 - 144	3	25
delta-BHC			0.250	0.176		ug/L		71	29 - 163	3	26
Endosulfan II			0.250	0.218		ug/L		87	53 - 145	4	25
4,4'-DDT			0.250	0.190		ug/L		76	15 - 169	4	27
Endrin ketone			0.250	0.218		ug/L		87	28 - 175	8	24
gamma-BHC (Lindane)			0.250	0.213		ug/L		85	57 - 143	4	30
Dieldrin			0.250	0.216		ug/L		86	49 - 151	4	56
Endrin			0.250	0.218		ug/L		87	49 - 152	5	27
Methoxychlor			0.250	0.203		ug/L		81	12 - 172	1	54
4,4'-DDD			0.250	0.215		ug/L		86	52 - 165	3	27
4,4'-DDE			0.250	0.205		ug/L		82	52 - 150	4	27
Endrin aldehyde			0.250	0.217		ug/L		87	35 - 145	0	27
Heptachlor			0.250	0.208		ug/L		83	30 - 148	3	45
Endosulfan I			0.250	0.203		ug/L		81	43 - 144	5	26

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	98		20 - 139
DCB Decachlorobiphenyl (Surr)	75		20 - 154

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

Lab Sample ID: MB 570-99960/1-A
Matrix: Water
Analysis Batch: 100333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.035	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1221	ND		0.50	0.19	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1232	ND		0.50	0.058	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1242	ND		0.50	0.046	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1248	ND		0.50	0.054	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1254	ND		0.50	0.089	ug/L		10/07/20 07:27	10/08/20 19:47	1
Aroclor 1260	ND		0.50	0.037	ug/L		10/07/20 07:27	10/08/20 19:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		20 - 154	10/07/20 07:27	10/08/20 19:47	1

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

Lab Sample ID: LCS 570-99960/4-A
Matrix: Water
Analysis Batch: 100333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99960

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			1.00	0.896		ug/L		90	50 - 135		
Aroclor 1260			1.00	1.13		ug/L		113	50 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*20 - 154*

Lab Sample ID: LCSD 570-99960/5-A
Matrix: Water
Analysis Batch: 100333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99960

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			1.00	0.935		ug/L		94	50 - 135	4	25
Aroclor 1260			1.00	1.07		ug/L		107	50 - 135	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*20 - 154*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 570-100450/1-A
Matrix: Water
Analysis Batch: 100729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	0.190	J	0.20	0.11	ug/L		10/08/20 14:52	10/09/20 16:17	1
Bolstar	ND		0.20	0.036	ug/L		10/08/20 14:52	10/09/20 16:17	1
Chlorpyrifos	ND		0.20	0.063	ug/L		10/08/20 14:52	10/09/20 16:17	1
Coumaphos	ND		0.20	0.073	ug/L		10/08/20 14:52	10/09/20 16:17	1
Demeton, Total	ND		0.80	0.21	ug/L		10/08/20 14:52	10/09/20 16:17	1
Diazinon	ND		0.20	0.10	ug/L		10/08/20 14:52	10/09/20 16:17	1
Dichlorvos	ND		0.20	0.14	ug/L		10/08/20 14:52	10/09/20 16:17	1
Dimethoate	ND		0.20	0.10	ug/L		10/08/20 14:52	10/09/20 16:17	1
Disulfoton	ND		0.20	0.097	ug/L		10/08/20 14:52	10/09/20 16:17	1
EPN	ND		0.20	0.097	ug/L		10/08/20 14:52	10/09/20 16:17	1
Famphur	ND		0.20	0.093	ug/L		10/08/20 14:52	10/09/20 16:17	1
Fensulfothion	ND		0.40	0.16	ug/L		10/08/20 14:52	10/09/20 16:17	1
Fenthion	ND		0.20	0.036	ug/L		10/08/20 14:52	10/09/20 16:17	1
Malathion	ND		0.40	0.21	ug/L		10/08/20 14:52	10/09/20 16:17	1
Methyl parathion	ND		0.20	0.063	ug/L		10/08/20 14:52	10/09/20 16:17	1
Mevinphos	ND		0.20	0.13	ug/L		10/08/20 14:52	10/09/20 16:17	1
Parathion	ND		0.20	0.098	ug/L		10/08/20 14:52	10/09/20 16:17	1
Phorate	ND		0.40	0.20	ug/L		10/08/20 14:52	10/09/20 16:17	1
Ronnel	ND		0.20	0.065	ug/L		10/08/20 14:52	10/09/20 16:17	1
Stirophos	ND		0.20	0.13	ug/L		10/08/20 14:52	10/09/20 16:17	1
Sulfotepp	ND		0.40	0.14	ug/L		10/08/20 14:52	10/09/20 16:17	1
Tokuthion	ND		0.20	0.064	ug/L		10/08/20 14:52	10/09/20 16:17	1
Trichloronate	ND		0.20	0.059	ug/L		10/08/20 14:52	10/09/20 16:17	1
Mocap	ND		0.20	0.077	ug/L		10/08/20 14:52	10/09/20 16:17	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 570-100450/1-A
Matrix: Water
Analysis Batch: 100729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thionazin	ND		0.20	0.14	ug/L		10/08/20 14:52	10/09/20 16:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tributyl phosphate	*48*		*30 - 130*	*10/08/20 14:52*	*10/09/20 16:17*	*1*

Lab Sample ID: LCS 570-100450/2-A
Matrix: Water
Analysis Batch: 100729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Azinphos-methyl	4.00	2.98		ug/L		74	30 - 130
Bolstar	4.00	2.83		ug/L		71	30 - 130
Chlorpyrifos	4.00	2.79		ug/L		70	30 - 130
Coumaphos	4.00	2.93		ug/L		73	30 - 130
Demeton, Total	8.00	6.23		ug/L		78	30 - 130
Diazinon	4.00	2.59		ug/L		65	30 - 130
Dichlorvos	4.00	2.41		ug/L		60	30 - 130
Disulfoton	4.00	2.85		ug/L		71	30 - 130
Fensulfothion	4.00	3.35		ug/L		84	30 - 130
Fenthion	4.00	2.34		ug/L		59	30 - 130
Methyl parathion	4.00	2.70		ug/L		68	30 - 130
Mevinphos	4.00	3.76		ug/L		94	30 - 130
Phorate	4.00	2.88		ug/L		72	30 - 130
Ronnel	4.00	2.46		ug/L		62	30 - 130
Stirophos	4.00	3.12		ug/L		78	30 - 130
Tokuthion	4.00	2.54		ug/L		63	30 - 130
Trichloronate	4.00	2.52		ug/L		63	30 - 130
Mocap	4.00	2.95		ug/L		74	30 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tributyl phosphate	*80*		*30 - 130*

Lab Sample ID: LCSD 570-100450/3-A
Matrix: Water
Analysis Batch: 100729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azinphos-methyl	4.00	1.85	*1	ug/L		46	30 - 130	47	30
Bolstar	4.00	1.81	*1	ug/L		45	30 - 130	44	30
Chlorpyrifos	4.00	1.68	*1	ug/L		42	30 - 130	50	30
Coumaphos	4.00	1.74	*1	ug/L		43	30 - 130	51	30
Demeton, Total	8.00	3.72	*1	ug/L		47	30 - 130	50	30
Diazinon	4.00	1.51	*1	ug/L		38	30 - 130	53	30
Dichlorvos	4.00	1.38	*1	ug/L		34	30 - 130	55	30
Disulfoton	4.00	1.65	*1	ug/L		41	30 - 130	53	30
Fensulfothion	4.00	2.12	*1	ug/L		53	30 - 130	45	30
Fenthion	4.00	1.37	*1	ug/L		34	30 - 130	53	30
Methyl parathion	4.00	1.67	*1	ug/L		42	30 - 130	47	30

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCSD 570-100450/3-A
Matrix: Water
Analysis Batch: 100729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100450

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mevinphos			4.00	2.51	*1	ug/L		63	30 - 130	40	30
Phorate			4.00	1.70	*1	ug/L		42	30 - 130	52	30
Ronnel			4.00	1.42	*1	ug/L		36	30 - 130	53	30
Stirophos			4.00	1.81	*1	ug/L		45	30 - 130	53	30
Tokuthion			4.00	1.46	*1	ug/L		36	30 - 130	54	30
Trichloronate			4.00	1.42	*1	ug/L		35	30 - 130	56	30
Mocap			4.00	1.72	*1	ug/L		43	30 - 130	53	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tributyl phosphate	*43*		*30 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-100935/1-A
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		0.50	0.21	ug/L		10/10/20 10:41	10/14/20 13:05	1
2,4-D	ND		5.0	0.84	ug/L		10/10/20 10:41	10/14/20 13:05	1
Silvex (2,4,5-TP)	ND		0.50	0.40	ug/L		10/10/20 10:41	10/14/20 13:05	1
Dalapon	ND		13	4.7	ug/L		10/10/20 10:41	10/14/20 13:05	1
2,4-DB	ND		5.0	3.5	ug/L		10/10/20 10:41	10/14/20 13:05	1
Dicamba	ND		0.50	0.14	ug/L		10/10/20 10:41	10/14/20 13:05	1
Dichlorprop	ND		5.0	0.52	ug/L		10/10/20 10:41	10/14/20 13:05	1
Dinoseb	ND		2.5	2.2	ug/L		10/10/20 10:41	10/14/20 13:05	1
MCPA	ND		500	150	ug/L		10/10/20 10:41	10/14/20 13:05	1
MCPP	ND		500	81	ug/L		10/10/20 10:41	10/14/20 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*99*		*20 - 147*	*10/10/20 10:41*	*10/14/20 13:05*	*1*

Lab Sample ID: LCS 570-100935/2-A
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100935

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T			2.00	2.06		ug/L		103	20 - 133
2,4-D			20.0	18.3		ug/L		92	20 - 143
Silvex (2,4,5-TP)			2.00	2.01		ug/L		100	20 - 165
Dalapon			50.0	40.9		ug/L		82	20 - 152
2,4-DB			20.0	11.9	p	ug/L		59	20 - 180
Dicamba			2.00	1.93		ug/L		96	20 - 153
Dichlorprop			20.0	19.5		ug/L		98	20 - 151
Dinoseb			10.0	8.41		ug/L		84	20 - 180
MCPA			2000	1900		ug/L		95	20 - 140
MCPP			2000	1920		ug/L		96	20 - 142

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 570-100935/2-A
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100935

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*94*		*20 - 147*

Lab Sample ID: LCSD 570-100935/3-A
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100935

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T			2.00	2.15		ug/L		108	20 - 133	4	22
2,4-D			20.0	18.9		ug/L		95	20 - 143	3	18
Silvex (2,4,5-TP)			2.00	2.05		ug/L		103	20 - 165	2	17
Dalapon			50.0	43.7		ug/L		87	20 - 152	7	30
2,4-DB			20.0	12.3	p	ug/L		62	20 - 180	4	30
Dicamba			2.00	2.01		ug/L		100	20 - 153	4	30
Dichlorprop			20.0	20.6		ug/L		103	20 - 151	5	21
Dinoseb			10.0	7.48		ug/L		75	20 - 180	12	30
MCPA			2000	1990		ug/L		99	20 - 140	5	17
MCPP			2000	2160		ug/L		108	20 - 142	12	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*101*		*20 - 147*

Lab Sample ID: 570-40484-A-1-A MS
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 100935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		1.96	1.76		ug/L		90	20 - 133
2,4-D	ND		19.6	20.2		ug/L		103	20 - 143
Silvex (2,4,5-TP)	ND		1.96	1.87		ug/L		95	20 - 165
Dalapon	ND		49.1	46.4		ug/L		95	20 - 152
2,4-DB	ND		19.6	4.80	J p	ug/L		24	20 - 180
Dicamba	ND		1.96	1.66		ug/L		84	20 - 153
Dichlorprop	ND		19.6	19.5		ug/L		99	20 - 151
Dinoseb	ND	F1	9.82	ND	F1	ug/L		0	20 - 180
MCPA	ND		1960	2420		ug/L		123	20 - 140
MCPP	ND		1960	1840		ug/L		94	20 - 142

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*77*		*20 - 147*

Lab Sample ID: 570-40484-A-1-B MSD
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 100935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		1.96	1.59		ug/L		81	20 - 133	10	22
2,4-D	ND		19.6	18.2		ug/L		93	20 - 143	10	18
Silvex (2,4,5-TP)	ND		1.96	1.60		ug/L		81	20 - 165	16	17

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 570-40484-A-1-B MSD
Matrix: Water
Analysis Batch: 101752

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 100935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dalapon	ND		49.0	43.6		ug/L		89	20 - 152	6	30
2,4-DB	ND		19.6	4.12	J p	ug/L		21	20 - 180	15	30
Dicamba	ND		1.96	1.51		ug/L		77	20 - 153	9	30
Dichlorprop	ND		19.6	17.5		ug/L		89	20 - 151	11	21
Dinoseb	ND	F1	9.80	ND	F1	ug/L		0	20 - 180	NC	30
MCPA	ND		1960	2210		ug/L		113	20 - 140	9	17
MCPP	ND		1960	1650		ug/L		84	20 - 142	11	27

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*68*		*20 - 147*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-626618/6
Matrix: Water
Analysis Batch: 626618

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.25	mg/L			10/05/20 10:38	1

Lab Sample ID: LCS 440-626618/5
Matrix: Water
Analysis Batch: 626618

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.84		mg/L		97	90 - 110

Lab Sample ID: 440-272697-G-4 MS
Matrix: Water
Analysis Batch: 626618

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2800	E	25.0	2820	E 4	mg/L		-12	80 - 120

Lab Sample ID: 440-272697-G-4 MSD
Matrix: Water
Analysis Batch: 626618

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2800	E	25.0	2810	E 4	mg/L		-26	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-627035/1-A
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0060	mg/L		10/08/20 13:30	10/09/20 11:29	1
Arsenic	ND		0.010	0.0089	mg/L		10/08/20 13:30	10/09/20 11:29	1

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

Lab Sample ID: MB 440-627035/1-A
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Beryllium	ND		0.0020	0.0010	mg/L		10/08/20 13:30	10/09/20 11:29	1
Cadmium	ND		0.0050	0.0025	mg/L		10/08/20 13:30	10/09/20 11:29	1
Chromium	ND		0.0050	0.0025	mg/L		10/08/20 13:30	10/09/20 11:29	1
Cobalt	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Copper	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Lead	ND		0.0050	0.0038	mg/L		10/08/20 13:30	10/09/20 11:29	1
Nickel	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Selenium	ND		0.010	0.0087	mg/L		10/08/20 13:30	10/09/20 11:29	1
Silver	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Thallium	ND		0.010	0.0080	mg/L		10/08/20 13:30	10/09/20 11:29	1
Tin	ND		0.10	0.050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Vanadium	ND		0.010	0.0050	mg/L		10/08/20 13:30	10/09/20 11:29	1
Zinc	ND		0.020	0.012	mg/L		10/08/20 13:30	10/09/20 11:29	1

Lab Sample ID: LCS 440-627035/2-A
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.08		mg/L		108	80 - 120
Arsenic	1.00	0.978		mg/L		98	80 - 120
Barium	1.00	0.987		mg/L		99	80 - 120
Beryllium	1.00	0.975		mg/L		98	80 - 120
Cadmium	1.00	0.977		mg/L		98	80 - 120
Chromium	1.00	0.982		mg/L		98	80 - 120
Cobalt	1.00	0.985		mg/L		98	80 - 120
Copper	1.00	0.995		mg/L		99	80 - 120
Lead	1.00	0.978		mg/L		98	80 - 120
Nickel	1.00	0.983		mg/L		98	80 - 120
Selenium	1.00	0.940		mg/L		94	80 - 120
Silver	0.500	0.491		mg/L		98	80 - 120
Thallium	1.00	0.950		mg/L		95	80 - 120
Tin	1.00	1.00		mg/L		100	80 - 120
Vanadium	1.00	0.984		mg/L		98	80 - 120
Zinc	1.00	0.982		mg/L		98	80 - 120

Lab Sample ID: 440-272697-I-4-C MS
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	1.14		mg/L		114	75 - 125
Arsenic	ND		1.00	1.04		mg/L		104	75 - 125
Barium	0.024		1.00	0.973		mg/L		95	75 - 125
Beryllium	ND		1.00	1.02		mg/L		102	75 - 125
Cadmium	ND		1.00	0.929		mg/L		93	75 - 125
Chromium	0.0055		1.00	0.994		mg/L		99	75 - 125
Cobalt	0.021		1.00	0.959		mg/L		94	75 - 125

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

Lab Sample ID: 440-272697-I-4-C MS
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	ND		1.00	1.06		mg/L		106	75 - 125
Lead	ND		1.00	0.938		mg/L		94	75 - 125
Nickel	0.0061	J	1.00	0.941		mg/L		93	75 - 125
Selenium	ND		1.00	0.969		mg/L		97	75 - 125
Silver	ND		0.500	0.521		mg/L		104	75 - 125
Thallium	ND		1.00	0.886		mg/L		89	75 - 125
Tin	ND		1.00	1.02		mg/L		102	75 - 125
Vanadium	ND		1.00	1.03		mg/L		103	75 - 125
Zinc	0.033		1.00	0.937		mg/L		90	75 - 125

Lab Sample ID: 440-272697-I-4-D MSD
Matrix: Water
Analysis Batch: 627164

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 627035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	1.14		mg/L		114	75 - 125	1	20
Arsenic	ND		1.00	1.03		mg/L		103	75 - 125	1	20
Barium	0.024		1.00	0.964		mg/L		94	75 - 125	1	20
Beryllium	ND		1.00	1.02		mg/L		102	75 - 125	0	20
Cadmium	ND		1.00	0.929		mg/L		93	75 - 125	0	20
Chromium	0.0055		1.00	0.988		mg/L		98	75 - 125	1	20
Cobalt	0.021		1.00	0.957		mg/L		94	75 - 125	0	20
Copper	ND		1.00	1.06		mg/L		106	75 - 125	0	20
Lead	ND		1.00	0.936		mg/L		94	75 - 125	0	20
Nickel	0.0061	J	1.00	0.937		mg/L		93	75 - 125	0	20
Selenium	ND		1.00	0.959		mg/L		96	75 - 125	1	20
Silver	ND		0.500	0.519		mg/L		104	75 - 125	0	20
Thallium	ND		1.00	0.901		mg/L		90	75 - 125	2	20
Tin	ND		1.00	1.02		mg/L		102	75 - 125	1	20
Vanadium	ND		1.00	1.03		mg/L		103	75 - 125	0	20
Zinc	0.033		1.00	0.935		mg/L		90	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-627173/1-A
Matrix: Water
Analysis Batch: 627351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 627173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		10/09/20 14:04	10/12/20 12:39	1

Lab Sample ID: LCS 440-627173/2-A
Matrix: Water
Analysis Batch: 627351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 627173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00400	0.00401		mg/L		100	80 - 120