Sample Summary

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

Job ID: 440-261106-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-261106-1	CM-10R	Water	02/17/20 13:13	02/17/20 16:35	
440-261106-2	CM-11R	Water	02/17/20 10:47	02/17/20 16:35	
440-261106-3	MW-6	Water	02/17/20 14:00	02/17/20 16:35	
440-261106-4	MW-14	Water	02/17/20 12:15	02/17/20 16:35	
440-261106-5	PZ-2	Water	02/17/20 10:16	02/17/20 16:35	
440-261106-6	Combined Subdrains	Water	02/17/20 12:55	02/17/20 16:35	
440-261106-7	Duplicate	Water	02/17/20 00:01	02/17/20 16:35	
440-261106-8	Trip Blank	Water	02/17/20 00:01	02/17/20 16:35	
440-261106-9	Field Blank	Water	02/17/20 00:01	02/17/20 16:35	

Job ID: 440-261106-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-261106-1

Comments
No additional comments.

Receipt
The samples were received on 2/17/2020 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3º C, 1.6º C and 1.7º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-595949 recovered above the upper control limit for Acetonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-595949 recovered outside control limit for the following analyte: Acetonitrile. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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
No analytical or quality issues were noted, other than those described 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
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-596153. LCS was performed in duplicate to provide precision of data.

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 Sample Results

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

Job ID: 440-261106-1

Client Sample ID: CM-10R

Date Collected: 02/17/20 13:13
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-1

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	0.40	ug/L			02/18/20 13:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Acrolein	ND		50	2.5	ug/L			02/18/20 09:36	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 09:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 13:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 13:11	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 13:11	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 13:11	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 13:11	1
Acetone	ND		20	10	ug/L			02/18/20 13:11	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 13:11	1
Acrolein	ND		5.0	2.5	ug/L			02/18/20 09:36	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 09:36	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 13:11	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 13:11	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 13:11	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 13:11	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 13:11	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:11	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 13:11	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 13:11	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 13:11	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 13:11	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:11	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: CM-10R

Date Collected: 02/17/20 13:13
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 13:11	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 13:11	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Propionitrile	ND		20	10	ug/L			02/18/20 13:11	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 13:11	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 13:11	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 13:11	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 13:11	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 13:11	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 13:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 13:11	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 13:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 13:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*16*	*T J*	*ug/L*		*2.74*			*02/18/20 09:36*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 13:11*	*1*
Unknown	*19*	*T J*	*ug/L*		*14.13*			*02/18/20 09:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/18/20 09:36*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 09:36*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/18/20 09:36*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 13:11*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 09:36*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/18/20 13:11*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 09:36*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 09:36*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/18/20 13:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		02/19/20 07:16	02/20/20 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*69*		*30 - 120*	*02/19/20 07:16*	*02/20/20 12:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.3**		2.5	1.3	mg/L			02/18/20 17:10	5

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		02/18/20 10:35	02/19/20 17:14	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: CM-10R

Lab Sample ID: 440-261106-1
Date Collected: 02/17/20 13:13
Matrix: Water
Date Received: 02/17/20 16:35

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**10**		0.20	0.10	mg/L			02/19/20 13:02	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:28	1
Total Dissolved Solids	**2600**		20	10	mg/L			02/22/20 15:40	1
Total Organic Carbon	**3.1**		0.10	0.050	mg/L			02/21/20 06:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**410**		4.0	4.0	mg/L			02/18/20 09:01	1

Client Sample ID: CM-11R

Lab Sample ID: 440-261106-2
Date Collected: 02/17/20 10:47
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 13:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Acrolein	ND		50	2.5	ug/L			02/18/20 11:01	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 11:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 13:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 13:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 13:34	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 13:34	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 13:34	1
Acetone	ND		20	10	ug/L			02/18/20 13:34	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 13:34	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 13:34	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 13:34	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 13:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 13:34	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: CM-11R

Date Collected: 02/17/20 10:47
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-2

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	0.25	ug/L			02/18/20 13:34	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 13:34	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 13:34	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 13:34	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 13:34	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 13:34	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 13:34	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 13:34	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Propionitrile	ND		20	10	ug/L			02/18/20 13:34	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 13:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 13:34	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 13:34	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 13:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 13:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 13:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 13:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 13:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 13:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*7.29*			*02/18/20 13:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/18/20 11:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 11:01*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 13:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/18/20 13:34*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 11:01*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/18/20 13:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 11:01	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 11:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4.3*	*T J*	*ug/L*		*2.85*			*02/18/20 11:01*	*1*
Unknown	*3.3*	*T J*	*ug/L*		*2.91*			*02/18/20 11:01*	*1*

Client Sample ID: CM-11R

Lab Sample ID: 440-261106-2
Date Collected: 02/17/20 10:47
Matrix: Water
Date Received: 02/17/20 16:35

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

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/18/20 11:01*	*1*
Unknown	*7.7*	*T J*	*ug/L*		*16.48*			*02/18/20 11:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/18/20 11:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 11:01*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 11:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.25	ug/L		02/19/20 07:16	02/20/20 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*58*		*30 - 120*	*02/19/20 07:16*	*02/20/20 13:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0	2.5	mg/L			02/18/20 18:01	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**9.6**		0.50	0.25	mg/L		02/18/20 10:35	02/19/20 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.7**		0.20	0.10	mg/L			02/19/20 13:23	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:28	1
Total Dissolved Solids	**3500**		50	25	mg/L			02/22/20 15:40	1
Total Organic Carbon	**4.8**		0.10	0.050	mg/L			02/21/20 07:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**50**		4.0	4.0	mg/L			02/18/20 09:07	1

Client Sample ID: MW-6

Lab Sample ID: 440-261106-3
Date Collected: 02/17/20 14:00
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 13:58	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Acrolein	ND		50	2.5	ug/L			02/18/20 11:30	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 11:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 13:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 13:58	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: MW-6

Date Collected: 02/17/20 14:00
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 13:58	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 13:58	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 13:58	1
Acetone	ND		20	10	ug/L			02/18/20 13:58	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 13:58	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 13:58	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 13:58	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 13:58	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 13:58	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 13:58	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:58	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 13:58	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 13:58	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 13:58	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 13:58	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 13:58	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 13:58	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 13:58	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Propionitrile	ND		20	10	ug/L			02/18/20 13:58	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 13:58	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 13:58	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 13:58	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 13:58	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 13:58	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: MW-6

Date Collected: 02/17/20 14:00
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 13:58	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 13:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 13:58	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 13:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 13:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 13:58*	*1*
Unknown	*2.8*	*T J*	*ug/L*		*13.01*			*02/18/20 13:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/18/20 11:30*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 11:30*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 13:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/18/20 13:58*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 11:30*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/18/20 13:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 11:30	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 11:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.4*	*T J*	*ug/L*		*2.24*			*02/18/20 11:30*	*1*
Unknown	*3.5*	*T J*	*ug/L*		*2.99*			*02/18/20 11:30*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/18/20 11:30*	*1*
Unknown	*10*	*T J*	*ug/L*		*16.44*			*02/18/20 11:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/18/20 11:30*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 11:30*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 11:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		02/19/20 07:16	02/20/20 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*54*		*30 - 120*	*02/19/20 07:16*	*02/20/20 13:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35**		2.5	1.3	mg/L			02/18/20 18:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.8**		0.50	0.25	mg/L		02/18/20 10:35	02/19/20 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.84**		0.20	0.10	mg/L			02/19/20 13:12	1

Client Sample ID: MW-6

Lab Sample ID: 440-261106-3
Date Collected: 02/17/20 14:00
Matrix: Water
Date Received: 02/17/20 16:35

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:29	1
Total Dissolved Solids	**3300**		20	10	mg/L			02/22/20 15:40	1
Total Organic Carbon	**5.3**		0.10	0.050	mg/L			02/21/20 07:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**460**		4.0	4.0	mg/L			02/18/20 09:18	1

Client Sample ID: MW-14

Lab Sample ID: 440-261106-4
Date Collected: 02/17/20 12:15
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 14:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Acrolein	ND		50	2.5	ug/L			02/18/20 11:58	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 11:58	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 14:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 14:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 14:22	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 14:22	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 14:22	1
Acetone	ND		20	10	ug/L			02/18/20 14:22	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 14:22	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 14:22	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 14:22	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 14:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 14:22	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: MW-14

Date Collected: 02/17/20 12:15
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-4

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	0.25	ug/L			02/18/20 14:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 14:22	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 14:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 14:22	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 14:22	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 14:22	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 14:22	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 14:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 14:22	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 14:22	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Propionitrile	ND		20	10	ug/L			02/18/20 14:22	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 14:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 14:22	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 14:22	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 14:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 14:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 14:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 14:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 14:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 14:22*	*1*
Unknown	*0.00*	*J*	*ug/L*		*7.95*			*02/18/20 14:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 11:58*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 11:58*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 14:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/18/20 14:22*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 11:58*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/18/20 14:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 11:58	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 11:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4.2*	*T J*	*ug/L*		*2.87*			*02/18/20 11:58*	*1*
Ethane, 1-chloro-1-fluoro-	*3.4*	*T J N*	*ug/L*		*2.99*	*1615-75-4*		*02/18/20 11:58*	*1*

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: MW-14

Lab Sample ID: 440-261106-4
Date Collected: 02/17/20 12:15
Matrix: Water
Date Received: 02/17/20 16:35

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	T J	ug/L		6.52			02/18/20 11:58	1
Unknown	15	T J	ug/L		14.81			02/18/20 11:58	1
Unknown	30	T J	ug/L		14.85			02/18/20 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 128		02/18/20 11:58	1
4-Bromofluorobenzene (Surr)	107		80 - 120		02/18/20 11:58	1
Dibromofluoromethane (Surr)	102		76 - 132		02/18/20 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.24	ug/L		02/19/20 07:16	02/20/20 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	57		30 - 120	02/19/20 07:16	02/20/20 14:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32**		2.5	1.3	mg/L			02/18/20 18:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**8.1**		0.50	0.25	mg/L		02/18/20 10:35	02/19/20 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.10**	**J**	0.20	0.10	mg/L			02/19/20 13:28	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:29	1
Total Dissolved Solids	**3300**		20	10	mg/L			02/22/20 15:40	1
Total Organic Carbon	**4.4**		0.10	0.050	mg/L			02/21/20 08:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**340**		4.0	4.0	mg/L			02/18/20 09:30	1

Client Sample ID: PZ-2

Lab Sample ID: 440-261106-5
Date Collected: 02/17/20 10:16
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 14:46	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Acrolein	ND		50	2.5	ug/L			02/18/20 12:26	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 12:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 14:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 14:46	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: PZ-2

Date Collected: 02/17/20 10:16
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 14:46	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 14:46	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 14:46	1
Acetone	ND		20	10	ug/L			02/18/20 14:46	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 14:46	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 14:46	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 14:46	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 14:46	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 14:46	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 14:46	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 14:46	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 14:46	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 14:46	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 14:46	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 14:46	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 14:46	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 14:46	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 14:46	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Propionitrile	ND		20	10	ug/L			02/18/20 14:46	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 14:46	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 14:46	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 14:46	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 14:46	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 14:46	1

Client Sample ID: PZ-2

Lab Sample ID: 440-261106-5

Date Collected: 02/17/20 10:16
Date Received: 02/17/20 16:35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 14:46	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 14:46	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 14:46	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 14:46	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 14:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 14:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 14:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 12:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 12:26*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 14:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/18/20 14:46*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 12:26*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/18/20 14:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 12:26	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 12:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*30*	*T J*	*ug/L*		*2.42*			*02/18/20 12:26*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/18/20 12:26*	*1*
Unknown	*22*	*T J*	*ug/L*		*16.59*			*02/18/20 12:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 12:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 12:26*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 12:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.24	ug/L		02/19/20 07:16	02/20/20 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*70*		*30 - 120*	*02/19/20 07:16*	*02/20/20 14:24*	*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			02/18/20 18:53	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**2.9**		0.50	0.25	mg/L		02/18/20 10:35	02/19/20 17:38	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			02/19/20 13:34	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:29	1

Client Sample ID: PZ-2

Lab Sample ID: 440-261106-5
Date Collected: 02/17/20 10:16
Matrix: Water
Date Received: 02/17/20 16:35

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**3300**		100	50	mg/L			02/22/20 15:40	1
Total Organic Carbon	**2.3**		0.10	0.050	mg/L			02/21/20 08:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**360**		4.0	4.0	mg/L			02/18/20 09:49	1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-261106-6
Date Collected: 02/17/20 12:55
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 15:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Acrolein	ND		50	2.5	ug/L			02/18/20 12:55	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 12:55	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 15:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 15:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,4-Dichlorobenzene	**3.8**		0.50	0.25	ug/L			02/18/20 15:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 15:10	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 15:10	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 15:10	1
Acetone	ND		20	10	ug/L			02/18/20 15:10	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 15:10	1
Benzene	**0.55**		0.50	0.25	ug/L			02/18/20 15:10	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 15:10	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 15:10	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 15:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 15:10	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
cis-1,2-Dichloroethene	**1.1**		0.50	0.25	ug/L			02/18/20 15:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-261106-6

Date Collected: 02/17/20 12:55
Matrix: Water
Date Received: 02/17/20 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 15:10	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 15:10	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 15:10	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 15:10	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 15:10	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 15:10	1
Methyl tert-butyl ether	**1.1**		0.50	0.25	ug/L			02/18/20 15:10	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 15:10	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Propionitrile	ND		20	10	ug/L			02/18/20 15:10	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
t-Butanol	**12**		10	5.0	ug/L			02/18/20 15:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 15:10	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 15:10	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 15:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 15:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 15:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 15:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 15:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 15:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silane, fluorotrimethyl-	*7.7*	*T J N*	*ug/L*		*3.54*	*420-56-4*		*02/18/20 15:10*	*1*
Unknown	*7.7*	*T J*	*ug/L*		*5.78*			*02/18/20 15:10*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 15:10*	*1*
Unknown	*3.7*	*T J*	*ug/L*		*13.01*			*02/18/20 15:10*	*1*
Benzene, 1-methyl-4-(1-methylethyl)-	*25*	*T J N*	*ug/L*		*13.26*	*99-87-6*		*02/18/20 15:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 12:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 12:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/18/20 15:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/18/20 15:10*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 12:55*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/18/20 15:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 12:55	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 12:55	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-261106-6
Date Collected: 02/17/20 12:55
Matrix: Water
Date Received: 02/17/20 16:35

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*18*	*T J*	*ug/L*		*2.20*			*02/18/20 12:55*	*1*
Unknown	*5.6*	*T J*	*ug/L*		*5.03*			*02/18/20 12:55*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/18/20 12:55*	*1*
Benzene, 1-methyl-3-(1-methylethyl)-	*22*	*T J N*	*ug/L*		*12.44*	*535-77-3*		*02/18/20 12:55*	*1*
Unknown	*8.2*	*T J*	*ug/L*		*16.38*			*02/18/20 12:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 12:55*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 12:55*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 12:55*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**7.9**		1.0	0.26	ug/L		02/19/20 07:16	02/20/20 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*57*		*30 - 120*	*02/19/20 07:16*	*02/20/20 14:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77**		25	13	mg/L			02/17/20 23:52	50

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		02/18/20 10:35	02/19/20 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**5.3**		0.20	0.10	mg/L			02/19/20 13:07	1
Chemical Oxygen Demand	**44**		20	10	mg/L			02/19/20 15:29	1
Total Dissolved Solids	**3200**		20	10	mg/L			02/22/20 15:40	1
Total Organic Carbon	**29**		0.50	0.25	mg/L			02/21/20 10:43	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**710**		4.0	4.0	mg/L			02/18/20 10:03	1

Client Sample ID: Duplicate

Lab Sample ID: 440-261106-7
Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 15:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Acrolein	ND		50	2.5	ug/L			02/18/20 13:23	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 13:23	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 15:33	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Duplicate

Lab Sample ID: 440-261106-7

Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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		1.0	0.50	ug/L			02/18/20 15:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 15:33	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 15:33	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 15:33	1
Acetone	ND		20	10	ug/L			02/18/20 15:33	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 15:33	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 15:33	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 15:33	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 15:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 15:33	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 15:33	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 15:33	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 15:33	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 15:33	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 15:33	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:33	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 15:33	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 15:33	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Propionitrile	ND		20	10	ug/L			02/18/20 15:33	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 15:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 15:33	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:33	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 15:33	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Duplicate

Date Collected: 02/17/20 00:01
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-7

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	0.25	ug/L			02/18/20 15:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 15:33	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 15:33	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 15:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 15:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 15:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 15:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 13:23*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 13:23*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 15:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/18/20 15:33*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 13:23*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/18/20 15:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 13:23	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 13:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*16*	*T J*	*ug/L*		*2.65*			*02/18/20 13:23*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/18/20 13:23*	*1*
Unknown	*14*	*T J*	*ug/L*		*16.47*			*02/18/20 13:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/18/20 13:23*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/18/20 13:23*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 13:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*64*		*30 - 120*	*02/19/20 07:16*	*02/20/20 15:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		5.0	2.5	mg/L			02/18/20 20:11	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		02/18/20 10:35	02/19/20 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.6**		0.20	0.10	mg/L			02/19/20 13:48	1

Client Sample ID: Duplicate

Lab Sample ID: 440-261106-7
Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			02/19/20 15:29	1
Total Dissolved Solids	**3400**		50	25	mg/L			02/22/20 15:40	1
Total Organic Carbon	**4.8**		0.10	0.050	mg/L			02/21/20 08:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**38**		4.0	4.0	mg/L			02/18/20 10:09	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261106-8
Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 15:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Acrolein	ND		50	2.5	ug/L			02/18/20 13:51	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 13:51	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 15:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 15:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 15:57	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 15:57	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 15:57	1
Acetone	ND		20	10	ug/L			02/18/20 15:57	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 15:57	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 15:57	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 15:57	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 15:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 15:57	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261106-8

Date Collected: 02/17/20 00:01
Date Received: 02/17/20 16:35

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	0.25	ug/L			02/18/20 15:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 15:57	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:57	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 15:57	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 15:57	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 15:57	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 15:57	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 15:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 15:57	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 15:57	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Propionitrile	ND		20	10	ug/L			02/18/20 15:57	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 15:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 15:57	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 15:57	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 15:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 15:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 15:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 15:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 15:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 15:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/18/20 13:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/18/20 13:51*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/18/20 15:57*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/18/20 15:57*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 13:51*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/18/20 15:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 13:51	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 13:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/18/20 13:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/18/20 13:51*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-261106-8

Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/18/20 13:51*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/18/20 13:51*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-261106-9

Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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	0.40	ug/L			02/18/20 16:21	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Acrolein	ND		50	2.5	ug/L			02/18/20 14:20	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 14:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 16:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 16:21	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 16:21	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 16:21	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 16:21	1
Acetone	ND		20	10	ug/L			02/18/20 16:21	1
Acetonitrile	ND	*	20	10	ug/L			02/18/20 16:21	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 16:21	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 16:21	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 16:21	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 16:21	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 16:21	1

Client Sample Results

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

Job ID: 440-261106-1

Client Sample ID: Field Blank

Lab Sample ID: 440-261106-9

Date Collected: 02/17/20 00:01
Date Received: 02/17/20 16:35

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	1.0	ug/L			02/18/20 16:21	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 16:21	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 16:21	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 16:21	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 16:21	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 16:21	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 16:21	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 16:21	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Propionitrile	ND		20	10	ug/L			02/18/20 16:21	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 16:21	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 16:21	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 16:21	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 16:21	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 16:21	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 16:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 16:21	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 16:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/18/20 16:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 14:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 14:20*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 16:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/18/20 16:21*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/18/20 14:20*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/18/20 16:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			02/18/20 14:20	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 14:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/18/20 14:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 14:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/18/20 14:20*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/18/20 14:20*	*1*

Method Summary

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

Job ID: 440-261106-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-261106-1

Client Sample ID: CM-10R

Lab Sample ID: 440-261106-1
Date Collected: 02/17/20 13:13
Matrix: Water
Date Received: 02/17/20 16:35

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	10 mL	10 mL	595925	02/18/20 09:36	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 13:11	RM	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 12:58	JS1	TAL IRV
Total/NA	Analysis	300.0		5			595964	02/18/20 17:10	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:14	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:02	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:28	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 09:01	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 06:43	YZ	TAL IRV

Client Sample ID: CM-11R

Lab Sample ID: 440-261106-2
Date Collected: 02/17/20 10:47
Matrix: Water
Date Received: 02/17/20 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	595925	02/18/20 11:01	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 13:34	RM	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 13:19	JS1	TAL IRV
Total/NA	Analysis	300.0		10			595964	02/18/20 18:01	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:31	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:23	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:28	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 09:07	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 07:34	YZ	TAL IRV

Client Sample ID: MW-6

Lab Sample ID: 440-261106-3
Date Collected: 02/17/20 14:00
Matrix: Water
Date Received: 02/17/20 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	595925	02/18/20 11:30	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 13:58	RM	TAL IRV
Total/NA	Prep	3520C			1000 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 13:41	JS1	TAL IRV
Total/NA	Analysis	300.0		5			595964	02/18/20 18:18	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:33	P1R	TAL IRV

Lab Chronicle

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

Job ID: 440-261106-1

Client Sample ID: MW-6

Lab Sample ID: 440-261106-3
Date Collected: 02/17/20 14:00
Matrix: Water
Date Received: 02/17/20 16:35

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	8.0 mL	596267	02/19/20 13:12	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:29	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 09:18	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 07:50	YZ	TAL IRV

Client Sample ID: MW-14

Lab Sample ID: 440-261106-4
Date Collected: 02/17/20 12:15
Matrix: Water
Date Received: 02/17/20 16:35

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	10 mL	10 mL	595925	02/18/20 11:58	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 14:22	RM	TAL IRV
Total/NA	Prep	3520C			1025 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 14:02	JS1	TAL IRV
Total/NA	Analysis	300.0		5			595964	02/18/20 18:35	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:35	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:28	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:29	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 09:30	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 08:07	YZ	TAL IRV

Client Sample ID: PZ-2

Lab Sample ID: 440-261106-5
Date Collected: 02/17/20 10:16
Matrix: Water
Date Received: 02/17/20 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	595925	02/18/20 12:26	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 14:46	RM	TAL IRV
Total/NA	Prep	3520C			1025 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 14:24	JS1	TAL IRV
Total/NA	Analysis	300.0		10			595964	02/18/20 18:53	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:38	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:34	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:29	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 09:49	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 08:21	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-261106-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-261106-6
Date Collected: 02/17/20 12:55
Matrix: Water
Date Received: 02/17/20 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	595925	02/18/20 12:55	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 15:10	RM	TAL IRV
Total/NA	Prep	3520C			980 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 14:46	JS1	TAL IRV
Total/NA	Analysis	300.0		50			595783	02/17/20 23:52	HTL	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:40	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:07	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:29	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 10:03	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	596855	02/21/20 10:43	YZ	TAL IRV

Client Sample ID: Duplicate

Lab Sample ID: 440-261106-7
Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

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	10 mL	10 mL	595925	02/18/20 13:23	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 15:33	RM	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 15:08	JS1	TAL IRV
Total/NA	Analysis	300.0		10			595964	02/18/20 20:11	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	595992	02/18/20 10:35	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596300	02/19/20 17:42	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596267	02/19/20 13:48	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2.0 mL	2.0 mL	596271	02/19/20 15:29	HTL	TAL IRV
Total/NA	Analysis	SM 2320B		1			595987	02/18/20 10:09	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596814	02/22/20 15:40	KL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	596855	02/21/20 08:53	YZ	TAL IRV

Client Sample ID: Trip Blank

Lab Sample ID: 440-261106-8
Date Collected: 02/17/20 00:01
Matrix: Water
Date Received: 02/17/20 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	595925	02/18/20 13:51	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 15:57	RM	TAL IRV

Lab Chronicle

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

Job ID: 440-261106-1

Client Sample ID: Field Blank

Date Collected: 02/17/20 00:01
Date Received: 02/17/20 16:35

Lab Sample ID: 440-261106-9

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		1	10 mL	10 mL	595925	02/18/20 14:20	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	595949	02/18/20 16:21	RM	TAL IRV

Laboratory References:

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 440-595925/4
Matrix: Water
Analysis Batch: 595925

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			02/18/20 08:12	1
Acrylonitrile	ND		50	1.0	ug/L			02/18/20 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/18/20 08:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/18/20 08:12*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/18/20 08:12*	*1*

Lab Sample ID: LCS 440-595925/1002
Matrix: Water
Analysis Batch: 595925

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	9.88	13.1	J	ug/L		133	10 - 145
Acrylonitrile	100	116		ug/L		116	48 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*76 - 132*

Lab Sample ID: 440-261106-1 MS
Matrix: Water
Analysis Batch: 595925

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	ND		9.88	12.1	J	ug/L		123	10 - 147
Acrylonitrile	ND		100	107		ug/L		107	38 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*76 - 132*

Lab Sample ID: 440-261106-1 MSD
Matrix: Water
Analysis Batch: 595925

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein	ND		9.88	11.8	J	ug/L		120	10 - 147	2	40
Acrylonitrile	ND		100	110		ug/L		110	38 - 144	3	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*

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

Lab Sample ID: MB 440-595949/4
Matrix: Water
Analysis Batch: 595949

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	0.40	ug/L			02/18/20 09:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/18/20 09:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/18/20 09:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/18/20 09:14	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/18/20 09:14	1
2-Hexanone	ND		5.0	2.5	ug/L			02/18/20 09:14	1
Acetone	ND		20	10	ug/L			02/18/20 09:14	1
Acetonitrile	ND		20	10	ug/L			02/18/20 09:14	1
Acrolein	ND		5.0	2.5	ug/L			02/18/20 09:14	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/18/20 09:14	1
Benzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Allyl chloride	ND		1.0	0.50	ug/L			02/18/20 09:14	1
Bromoform	ND		1.0	0.40	ug/L			02/18/20 09:14	1
Bromomethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/18/20 09:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Chloroethane	ND		1.0	0.40	ug/L			02/18/20 09:14	1
Chloroform	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Chloromethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Dibromomethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/18/20 09:14	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 09:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Iodomethane	ND		2.0	1.0	ug/L			02/18/20 09:14	1
Isobutyl alcohol	ND		25	13	ug/L			02/18/20 09:14	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/18/20 09:14	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/18/20 09:14	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/18/20 09:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/18/20 09:14	1

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

Lab Sample ID: MB 440-595949/4
Matrix: Water
Analysis Batch: 595949

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	0.25	ug/L			02/18/20 09:14	1
Naphthalene	ND		1.0	0.40	ug/L			02/18/20 09:14	1
o-Xylene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Propionitrile	ND		20	10	ug/L			02/18/20 09:14	1
Styrene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
t-Butanol	ND		10	5.0	ug/L			02/18/20 09:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/18/20 09:14	1
Toluene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/18/20 09:14	1
Trichloroethene	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/18/20 09:14	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/18/20 09:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/18/20 09:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/18/20 09:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/18/20 09:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/18/20 09:14	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2-Ethyl-1-butanol	*16.8*	*J*	*ug/L*		*10.28*	*97-95-0*		*02/18/20 09:14*	*1*
Cyclohexanone	*40.1*	*J*	*ug/L*		*11.49*	*108-94-1*		*02/18/20 09:14*	*1*
n-Nonyl Aldehyde	*3.28*	*J*	*ug/L*		*13.96*	*124-19-6*		*02/18/20 09:14*	*1*
1,3,5-Trichlorobenzene	*0.934*	*J*	*ug/L*		*14.64*	*108-70-3*		*02/18/20 09:14*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/18/20 09:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/18/20 09:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/18/20 09:14*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/18/20 09:14*	*1*

Lab Sample ID: LCS 440-595949/1002
Matrix: Water
Analysis Batch: 595949

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	25.0	23.7		ug/L		95	63 - 130
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	60 - 141
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	63 - 130
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	23.1		ug/L		93	64 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	23.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		106	52 - 140
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130

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

Lab Sample ID: LCS 440-595949/1002
Matrix: Water
Analysis Batch: 595949

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	24.8		ug/L		99	57 - 138
1,2-Dichloropropane	25.0	24.3		ug/L		97	67 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	22.2		ug/L		89	70 - 130
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.4		ug/L		102	68 - 141
2-Hexanone	125	123		ug/L		99	10 - 150
Acetone	125	158		ug/L		126	10 - 150
Acrylonitrile	250	274		ug/L		109	48 - 140
Benzene	25.0	23.1		ug/L		92	68 - 130
Bromoform	25.0	26.8		ug/L		107	60 - 148
Bromomethane	25.0	23.7		ug/L		95	64 - 139
Carbon disulfide	25.0	24.3		ug/L		97	52 - 136
Carbon tetrachloride	25.0	26.4		ug/L		105	60 - 150
Chlorobenzene	25.0	22.6		ug/L		91	70 - 130
Bromochloromethane	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	24.8		ug/L		99	64 - 135
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	22.4		ug/L		90	47 - 140
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	70 - 133
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 133
Dibromochloromethane	25.0	25.8		ug/L		103	69 - 145
Dibromomethane	25.0	25.3		ug/L		101	70 - 130
Bromodichloromethane	25.0	26.3		ug/L		105	70 - 132
Dichlorodifluoromethane	25.0	21.7		ug/L		87	29 - 150
Ethylbenzene	25.0	21.8		ug/L		87	70 - 130
m,p-Xylene	25.0	23.4		ug/L		94	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	52 - 130
Methyl tert-butyl ether	25.0	25.9		ug/L		104	63 - 131
Naphthalene	25.0	26.2		ug/L		105	60 - 140
o-Xylene	25.0	23.1		ug/L		92	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 134
t-Butanol	250	259		ug/L		103	70 - 130
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130
Toluene	25.0	21.6		ug/L		86	70 - 130
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 132
Trichloroethene	25.0	23.4		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	24.9		ug/L		100	60 - 150
Vinyl acetate	25.0	30.7		ug/L		123	48 - 140
Vinyl chloride	25.0	21.4		ug/L		85	59 - 133
1,2-Dibromoethane (EDB)	25.0	24.8		ug/L		99	70 - 130
2-Butanone (MEK)	125	126		ug/L		101	44 - 150
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*

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

Lab Sample ID: LCS 440-595949/1002
Matrix: Water
Analysis Batch: 595949

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*76 - 132*

Lab Sample ID: 440-261000-A-1 MS
Matrix: Water
Analysis Batch: 595949

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	10.0		ug/L		100	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.6		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	11.7		ug/L		117	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.3		ug/L		103	70 - 130
1,1-Dichloroethane	0.94		10.0	11.3		ug/L		103	65 - 130
1,1-Dichloroethene	0.35	J	10.0	10.1		ug/L		98	70 - 130
1,1-Dichloropropene	ND		10.0	9.66		ug/L		97	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	10.1		ug/L		101	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	10.6		ug/L		106	48 - 140
1,2-Dichlorobenzene	ND		10.0	9.56		ug/L		96	70 - 130
1,2-Dichloroethane	ND		10.0	10.4		ug/L		104	56 - 146
1,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 130
1,3-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130
1,3-Dichloropropane	ND		10.0	9.44		ug/L		94	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130
2,2-Dichloropropane	ND		10.0	10.6		ug/L		106	69 - 138
2-Hexanone	ND		50.0	56.1		ug/L		112	10 - 150
Acetone	ND		50.0	53.4		ug/L		107	10 - 150
Acrylonitrile	ND		100	122		ug/L		122	38 - 144
Benzene	ND		10.0	9.87		ug/L		99	66 - 130
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150
Bromomethane	ND		10.0	9.10		ug/L		91	62 - 131
Carbon disulfide	ND		10.0	9.80		ug/L		98	49 - 140
Carbon tetrachloride	ND		10.0	10.9		ug/L		109	60 - 150
Chlorobenzene	ND		10.0	9.68		ug/L		97	70 - 130
Bromochloromethane	ND		10.0	11.0		ug/L		110	70 - 130
Chloroethane	ND		10.0	9.37		ug/L		94	68 - 130
Chloroform	ND		10.0	10.7		ug/L		107	70 - 130
Chloromethane	ND		10.0	8.45		ug/L		85	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.79		ug/L		98	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.62		ug/L		96	70 - 133
Dibromochloromethane	ND		10.0	10.5		ug/L		105	70 - 148
Dibromomethane	ND		10.0	10.4		ug/L		104	70 - 130
Bromodichloromethane	ND		10.0	10.8		ug/L		108	70 - 138
Dichlorodifluoromethane	ND		10.0	7.15		ug/L		71	25 - 142
Ethylbenzene	ND		10.0	9.22		ug/L		92	70 - 130
m,p-Xylene	ND		10.0	10.0		ug/L		100	70 - 133
Methylene Chloride	ND		10.0	9.63		ug/L		96	52 - 130
Methyl tert-butyl ether	ND		10.0	10.7		ug/L		107	70 - 130
Naphthalene	ND		10.0	10.1		ug/L		101	60 - 140

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

Lab Sample ID: 440-261000-A-1 MS
Matrix: Water
Analysis Batch: 595949

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
o-Xylene	ND		10.0	9.87		ug/L		99	70 - 133
Styrene	ND		10.0	10.4		ug/L		104	29 - 150
t-Butanol	ND		100	95.7		ug/L		96	70 - 130
Tetrachloroethene	0.52		10.0	10.6		ug/L		101	70 - 137
Toluene	ND		10.0	9.36		ug/L		94	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.88		ug/L		99	70 - 130
trans-1,3-Dichloropropene	ND		10.0	9.91		ug/L		99	70 - 138
Trichloroethene	0.54		10.0	9.96		ug/L		94	70 - 130
Trichlorofluoromethane	ND		10.0	10.1		ug/L		101	60 - 150
Vinyl acetate	ND		10.0	12.8		ug/L		128	23 - 150
Vinyl chloride	ND		10.0	8.66		ug/L		87	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	10.2		ug/L		102	70 - 131
2-Butanone (MEK)	ND		50.0	52.8		ug/L		106	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	54.3		ug/L		109	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*

Lab Sample ID: 440-261000-A-1 MSD
Matrix: Water
Analysis Batch: 595949

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	11.0		ug/L		110	60 - 130	9	30
1,1,1,2-Tetrachloroethane	ND		10.0	11.0		ug/L		110	60 - 149	2	20
1,1,1-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.0		ug/L		120	63 - 130	3	30
1,1,2-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130	5	25
1,1-Dichloroethane	0.94		10.0	11.2		ug/L		103	65 - 130	0	20
1,1-Dichloroethene	0.35	J	10.0	10.1		ug/L		97	70 - 130	0	20
1,1-Dichloropropene	ND		10.0	9.82		ug/L		98	64 - 130	2	20
1,2,4-Trichlorobenzene	ND		10.0	9.99		ug/L		100	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.3		ug/L		113	48 - 140	6	30
1,2-Dichlorobenzene	ND		10.0	9.76		ug/L		98	70 - 130	2	20
1,2-Dichloroethane	ND		10.0	10.4		ug/L		104	56 - 146	0	20
1,2-Dichloropropane	ND		10.0	9.94		ug/L		99	69 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130	2	20
1,3-Dichloropropane	ND		10.0	10.1		ug/L		101	70 - 130	6	25
1,4-Dichlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
2,2-Dichloropropane	ND		10.0	11.0		ug/L		110	69 - 138	4	25
2-Hexanone	ND		50.0	57.6		ug/L		115	10 - 150	3	35
Acetone	ND		50.0	38.2		ug/L		76	10 - 150	33	35
Acrylonitrile	ND		100	83.8		ug/L		84	38 - 144	37	40
Benzene	ND		10.0	9.78		ug/L		98	66 - 130	1	20
Bromoform	ND		10.0	11.7		ug/L		117	59 - 150	7	25
Bromomethane	ND		10.0	8.81		ug/L		88	62 - 131	3	25

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

Lab Sample ID: 440-261000-A-1 MSD
Matrix: Water
Analysis Batch: 595949

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
Carbon disulfide	ND		10.0	9.36		ug/L		94	49 - 140	5	20
Carbon tetrachloride	ND		10.0	10.9		ug/L		109	60 - 150	0	25
Chlorobenzene	ND		10.0	10.0		ug/L		100	70 - 130	3	20
Bromochloromethane	ND		10.0	11.0		ug/L		110	70 - 130	0	25
Chloroethane	ND		10.0	9.23		ug/L		92	68 - 130	2	25
Chloroform	ND		10.0	10.6		ug/L		106	70 - 130	0	20
Chloromethane	ND		10.0	8.19		ug/L		82	39 - 144	3	25
cis-1,2-Dichloroethene	ND		10.0	9.79		ug/L		98	70 - 130	0	20
cis-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	70 - 133	7	20
Dibromochloromethane	ND		10.0	11.2		ug/L		112	70 - 148	7	25
Dibromomethane	ND		10.0	10.2		ug/L		102	70 - 130	1	25
Bromodichloromethane	ND		10.0	10.9		ug/L		109	70 - 138	1	20
Dichlorodifluoromethane	ND		10.0	6.79		ug/L		68	25 - 142	5	30
Ethylbenzene	ND		10.0	9.69		ug/L		97	70 - 130	5	20
m,p-Xylene	ND		10.0	9.87		ug/L		99	70 - 133	2	25
Methylene Chloride	ND		10.0	9.52		ug/L		95	52 - 130	1	20
Methyl tert-butyl ether	ND		10.0	9.96		ug/L		100	70 - 130	7	25
Naphthalene	ND		10.0	10.6		ug/L		106	60 - 140	5	30
o-Xylene	ND		10.0	9.99		ug/L		100	70 - 133	1	20
Styrene	ND		10.0	10.7		ug/L		107	29 - 150	2	35
t-Butanol	ND		100	87.7		ug/L		88	70 - 130	9	25
Tetrachloroethene	0.52		10.0	10.9		ug/L		104	70 - 137	2	20
Toluene	ND		10.0	9.61		ug/L		96	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	9.70		ug/L		97	70 - 130	2	20
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138	5	25
Trichloroethene	0.54		10.0	10.0		ug/L		95	70 - 130	0	20
Trichlorofluoromethane	ND		10.0	9.86		ug/L		99	60 - 150	3	25
Vinyl acetate	ND		10.0	12.0		ug/L		120	23 - 150	6	30
Vinyl chloride	ND		10.0	8.14		ug/L		81	50 - 137	6	30
1,2-Dibromoethane (EDB)	ND		10.0	10.6		ug/L		106	70 - 131	4	25
2-Butanone (MEK)	ND		50.0	46.9		ug/L		94	48 - 140	12	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	56.2		ug/L		112	52 - 150	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*

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

Lab Sample ID: MB 440-596153/1-A
Matrix: Water
Analysis Batch: 596432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		02/19/20 07:16	02/20/20 11:53	1

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

Lab Sample ID: MB 440-596153/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596432 — **Prep Batch: 596153**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		30 - 120	02/19/20 07:16	02/20/20 11:53	1

Lab Sample ID: LCS 440-596153/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596432 — **Prep Batch: 596153**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.45		ug/L		73	35 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8 (Surr)	75		30 - 120

Lab Sample ID: LCSD 440-596153/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596432 — **Prep Batch: 596153**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.00	1.54		ug/L		77	35 - 120	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8 (Surr)	74		30 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-595783/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			02/17/20 12:26	1

Lab Sample ID: LCS 440-595783/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.67		mg/L		93	90 - 110

Lab Sample ID: 440-261084-H-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 595783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	76		25.0	105	E	mg/L		115	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-261084-H-1 MSD
Matrix: Water
Analysis Batch: 595783

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	76		25.0	105	E	mg/L		115	80 - 120	0	20

Lab Sample ID: MB 440-595964/6
Matrix: Water
Analysis Batch: 595964

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			02/18/20 11:25	1

Lab Sample ID: LCS 440-595964/5
Matrix: Water
Analysis Batch: 595964

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	4.76		mg/L		95	90 - 110

Lab Sample ID: 440-261106-1 MS
Matrix: Water
Analysis Batch: 595964

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.3		25.0	31.6		mg/L		93	80 - 120

Lab Sample ID: 440-261106-1 MSD
Matrix: Water
Analysis Batch: 595964

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.3		25.0	31.5		mg/L		93	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-595992/1-A
Matrix: Water
Analysis Batch: 596300

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 595992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		02/18/20 10:35	02/19/20 17:07	1

Lab Sample ID: LCS 440-595992/2-A
Matrix: Water
Analysis Batch: 596300

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 595992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.1		mg/L		101	80 - 120

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

Lab Sample ID: 440-261106-1 MS — **Client Sample ID: CM-10R**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596300 — **Prep Batch: 595992**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	12		10.0	21.8		mg/L		99	75 - 125

Lab Sample ID: 440-261106-1 MSD — **Client Sample ID: CM-10R**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596300 — **Prep Batch: 595992**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	12		10.0	22.0		mg/L		101	75 - 125	1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-596267/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			02/19/20 11:23	1

Lab Sample ID: LCS 440-596267/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596267

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.10		mg/L		102	90 - 110

Lab Sample ID: MRL 440-596267/17 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596267

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.222		mg/L		111	50 - 150

Lab Sample ID: 440-261093-C-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596267

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.15	J	5.00	4.99		mg/L		97	90 - 110

Lab Sample ID: 440-261093-C-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596267

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.15	J	5.00	4.78		mg/L		93	90 - 110	4	15

Method: 410.4 - COD

Lab Sample ID: MB 440-596271/3
Matrix: Water
Analysis Batch: 596271

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			02/19/20 15:27	1

Lab Sample ID: LCS 440-596271/4
Matrix: Water
Analysis Batch: 596271

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	194		mg/L		97	90 - 110

Lab Sample ID: 440-261012-A-1 MS
Matrix: Water
Analysis Batch: 596271

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	ND		200	197		mg/L		99	70 - 120

Lab Sample ID: 440-261012-A-1 MSD
Matrix: Water
Analysis Batch: 596271

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	ND		200	220		mg/L		110	70 - 120	11	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-595987/3
Matrix: Water
Analysis Batch: 595987

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			02/18/20 08:12	1

Lab Sample ID: LCS 440-595987/2
Matrix: Water
Analysis Batch: 595987

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	76.0		mg/L		100	80 - 120

Lab Sample ID: 440-261106-4 DU
Matrix: Water
Analysis Batch: 595987

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	340		336		mg/L		0.2	20

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

Lab Sample ID: MB 440-596814/1
Matrix: Water
Analysis Batch: 596814

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			02/22/20 15:40	1

Lab Sample ID: LCS 440-596814/2
Matrix: Water
Analysis Batch: 596814

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	970		mg/L		97	90 - 110

Lab Sample ID: 440-261106-1 DU
Matrix: Water
Analysis Batch: 596814

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2600		2570		mg/L		2	5

Method: SM 5310C - TOC

Lab Sample ID: MB 440-596855/8
Matrix: Water
Analysis Batch: 596855

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			02/21/20 05:43	1

Lab Sample ID: LCS 440-596855/7
Matrix: Water
Analysis Batch: 596855

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	4.92		mg/L		98	85 - 115

Lab Sample ID: MRL 440-596855/9
Matrix: Water
Analysis Batch: 596855

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	0.0834	J	mg/L		83	50 - 150

Lab Sample ID: 440-261106-1 MS
Matrix: Water
Analysis Batch: 596855

Client Sample ID: CM-10R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.1		5.00	8.76		mg/L		113	85 - 115

Method: SM 5310C - TOC (Continued)

Lab Sample ID: 440-261106-1 MSD
Matrix: Water
Analysis Batch: 596855

Client Sample ID: CM-10R
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	3.1		5.00	8.72		mg/L		112	85 - 115	0	20

QC Association Summary

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

Job ID: 440-261106-1

GC/MS VOA

Analysis Batch: 595925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	8260B	
440-261106-2 - RA	CM-11R	Total/NA	Water	8260B	
440-261106-2	CM-11R	Total/NA	Water	8260B	
440-261106-3 - RA	MW-6	Total/NA	Water	8260B	
440-261106-3	MW-6	Total/NA	Water	8260B	
440-261106-4	MW-14	Total/NA	Water	8260B	
440-261106-4 - RA	MW-14	Total/NA	Water	8260B	
440-261106-5 - RA	PZ-2	Total/NA	Water	8260B	
440-261106-5	PZ-2	Total/NA	Water	8260B	
440-261106-6 - RA	Combined Subdrains	Total/NA	Water	8260B	
440-261106-6	Combined Subdrains	Total/NA	Water	8260B	
440-261106-7	Duplicate	Total/NA	Water	8260B	
440-261106-7 - RA	Duplicate	Total/NA	Water	8260B	
440-261106-8 - RA	Trip Blank	Total/NA	Water	8260B	
440-261106-8	Trip Blank	Total/NA	Water	8260B	
440-261106-9	Field Blank	Total/NA	Water	8260B	
440-261106-9 - RA	Field Blank	Total/NA	Water	8260B	
MB 440-595925/4	Method Blank	Total/NA	Water	8260B	
LCS 440-595925/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261106-1 MS	CM-10R	Total/NA	Water	8260B	
440-261106-1 MSD	CM-10R	Total/NA	Water	8260B	

Analysis Batch: 595949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	8260B	
440-261106-2	CM-11R	Total/NA	Water	8260B	
440-261106-3	MW-6	Total/NA	Water	8260B	
440-261106-4	MW-14	Total/NA	Water	8260B	
440-261106-5	PZ-2	Total/NA	Water	8260B	
440-261106-6	Combined Subdrains	Total/NA	Water	8260B	
440-261106-7	Duplicate	Total/NA	Water	8260B	
440-261106-8	Trip Blank	Total/NA	Water	8260B	
440-261106-9	Field Blank	Total/NA	Water	8260B	
MB 440-595949/4	Method Blank	Total/NA	Water	8260B	
LCS 440-595949/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261000-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-261000-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 596153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	3520C	
440-261106-2	CM-11R	Total/NA	Water	3520C	
440-261106-3	MW-6	Total/NA	Water	3520C	
440-261106-4	MW-14	Total/NA	Water	3520C	
440-261106-5	PZ-2	Total/NA	Water	3520C	
440-261106-6	Combined Subdrains	Total/NA	Water	3520C	
440-261106-7	Duplicate	Total/NA	Water	3520C	
MB 440-596153/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-596153/2-A	Lab Control Sample	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 596153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-596153/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 596432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	8270C	596153
440-261106-2	CM-11R	Total/NA	Water	8270C	596153
440-261106-3	MW-6	Total/NA	Water	8270C	596153
440-261106-4	MW-14	Total/NA	Water	8270C	596153
440-261106-5	PZ-2	Total/NA	Water	8270C	596153
440-261106-6	Combined Subdrains	Total/NA	Water	8270C	596153
440-261106-7	Duplicate	Total/NA	Water	8270C	596153
MB 440-596153/1-A	Method Blank	Total/NA	Water	8270C	596153
LCS 440-596153/2-A	Lab Control Sample	Total/NA	Water	8270C	596153
LCSD 440-596153/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	596153

HPLC/IC

Analysis Batch: 595783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-6	Combined Subdrains	Total/NA	Water	300.0	
MB 440-595783/6	Method Blank	Total/NA	Water	300.0	
LCS 440-595783/5	Lab Control Sample	Total/NA	Water	300.0	
440-261084-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-261084-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 595964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	300.0	
440-261106-2	CM-11R	Total/NA	Water	300.0	
440-261106-3	MW-6	Total/NA	Water	300.0	
440-261106-4	MW-14	Total/NA	Water	300.0	
440-261106-5	PZ-2	Total/NA	Water	300.0	
440-261106-7	Duplicate	Total/NA	Water	300.0	
MB 440-595964/6	Method Blank	Total/NA	Water	300.0	
LCS 440-595964/5	Lab Control Sample	Total/NA	Water	300.0	
440-261106-1 MS	CM-10R	Total/NA	Water	300.0	
440-261106-1 MSD	CM-10R	Total/NA	Water	300.0	

Metals

Prep Batch: 595992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total Recoverable	Water	3005A	
440-261106-2	CM-11R	Total Recoverable	Water	3005A	
440-261106-3	MW-6	Total Recoverable	Water	3005A	
440-261106-4	MW-14	Total Recoverable	Water	3005A	
440-261106-5	PZ-2	Total Recoverable	Water	3005A	
440-261106-6	Combined Subdrains	Total Recoverable	Water	3005A	
440-261106-7	Duplicate	Total Recoverable	Water	3005A	
MB 440-595992/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-595992/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-261106-1 MS	CM-10R	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 595992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1 MSD	CM-10R	Total Recoverable	Water	3005A	

Analysis Batch: 596300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total Recoverable	Water	6010B	595992
440-261106-2	CM-11R	Total Recoverable	Water	6010B	595992
440-261106-3	MW-6	Total Recoverable	Water	6010B	595992
440-261106-4	MW-14	Total Recoverable	Water	6010B	595992
440-261106-5	PZ-2	Total Recoverable	Water	6010B	595992
440-261106-6	Combined Subdrains	Total Recoverable	Water	6010B	595992
440-261106-7	Duplicate	Total Recoverable	Water	6010B	595992
MB 440-595992/1-A	Method Blank	Total Recoverable	Water	6010B	595992
LCS 440-595992/2-A	Lab Control Sample	Total Recoverable	Water	6010B	595992
440-261106-1 MS	CM-10R	Total Recoverable	Water	6010B	595992
440-261106-1 MSD	CM-10R	Total Recoverable	Water	6010B	595992

General Chemistry

Analysis Batch: 595987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	SM 2320B	
440-261106-2	CM-11R	Total/NA	Water	SM 2320B	
440-261106-3	MW-6	Total/NA	Water	SM 2320B	
440-261106-4	MW-14	Total/NA	Water	SM 2320B	
440-261106-5	PZ-2	Total/NA	Water	SM 2320B	
440-261106-6	Combined Subdrains	Total/NA	Water	SM 2320B	
440-261106-7	Duplicate	Total/NA	Water	SM 2320B	
MB 440-595987/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-595987/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-261106-4 DU	MW-14	Total/NA	Water	SM 2320B	

Analysis Batch: 596267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	350.1	
440-261106-2	CM-11R	Total/NA	Water	350.1	
440-261106-3	MW-6	Total/NA	Water	350.1	
440-261106-4	MW-14	Total/NA	Water	350.1	
440-261106-5	PZ-2	Total/NA	Water	350.1	
440-261106-6	Combined Subdrains	Total/NA	Water	350.1	
440-261106-7	Duplicate	Total/NA	Water	350.1	
MB 440-596267/10	Method Blank	Total/NA	Water	350.1	
LCS 440-596267/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-596267/17	Lab Control Sample	Total/NA	Water	350.1	
440-261093-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
440-261093-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 596271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	410.4	
440-261106-2	CM-11R	Total/NA	Water	410.4	
440-261106-3	MW-6	Total/NA	Water	410.4	

QC Association Summary

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

Job ID: 440-261106-1

General Chemistry (Continued)

Analysis Batch: 596271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-4	MW-14	Total/NA	Water	410.4	
440-261106-5	PZ-2	Total/NA	Water	410.4	
440-261106-6	Combined Subdrains	Total/NA	Water	410.4	
440-261106-7	Duplicate	Total/NA	Water	410.4	
MB 440-596271/3	Method Blank	Total/NA	Water	410.4	
LCS 440-596271/4	Lab Control Sample	Total/NA	Water	410.4	
440-261012-A-1 MS	Matrix Spike	Total/NA	Water	410.4	
440-261012-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 596814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	SM 2540C	
440-261106-2	CM-11R	Total/NA	Water	SM 2540C	
440-261106-3	MW-6	Total/NA	Water	SM 2540C	
440-261106-4	MW-14	Total/NA	Water	SM 2540C	
440-261106-5	PZ-2	Total/NA	Water	SM 2540C	
440-261106-6	Combined Subdrains	Total/NA	Water	SM 2540C	
440-261106-7	Duplicate	Total/NA	Water	SM 2540C	
MB 440-596814/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-596814/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-261106-1 DU	CM-10R	Total/NA	Water	SM 2540C	

Analysis Batch: 596855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261106-1	CM-10R	Total/NA	Water	SM 5310C	
440-261106-2	CM-11R	Total/NA	Water	SM 5310C	
440-261106-3	MW-6	Total/NA	Water	SM 5310C	
440-261106-4	MW-14	Total/NA	Water	SM 5310C	
440-261106-5	PZ-2	Total/NA	Water	SM 5310C	
440-261106-6	Combined Subdrains	Total/NA	Water	SM 5310C	
440-261106-7	Duplicate	Total/NA	Water	SM 5310C	
MB 440-596855/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-596855/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-596855/9	Lab Control Sample	Total/NA	Water	SM 5310C	
440-261106-1 MS	CM-10R	Total/NA	Water	SM 5310C	
440-261106-1 MSD	CM-10R	Total/NA	Water	SM 5310C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

HPLC/IC

Qualifier	Qualifier Description
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

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

Job ID: 440-261106-1

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	06-30-20
Arizona	State	AZ0671	10-14-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-7	07-31-20
Oregon	NELAP	4028 - 007	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record

390222 eurofins | Environment Testing TestAmerica

Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchang	Site Contact: J. Mills	Date: 2-17-20	COC No:
Company Name: GLA/Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tomova	Carrier: T/A	1 of 1 COCs
Address: 11415 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: RA, CV, NR
City/State/Zip: San Diego, 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. Landfill	☐ 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)	EPA 8260B - VOCs	EPA 8270 1,4 Dioxane	Total Alkalinity (310.1)	Ammonia as (N) 350.2	COD EPA 410.4	Chloride (EPA 300.0)	Total Potassium (6010B)	TDS EPA 160.1	TOC EPA 415.1	Sample Specific Notes
CM-10R	2/17/20	1313	G	GW	12			X	X	X	X	X	X	X	X	X	
CM-11R		1047			12			X	X	X	X	X	X	X	X	X	
MW-6		1400			12			X	X	X	X	X	X	X	X	X	
MW-14		1215			12			X	X	X	X	X	X	X	X	X	
PZ-2		1016			12			X	X	X	X	X	X	X	X	X	
Combined Subdrains		1255		WW	12			X	X	X	X	X	X	X	X	X	
Duplicate		—		GW	12			X	X	X	X	X	X	X	X	X	
Trip Blank		—		LAB 1720	4			X									
Field Blank	2/17/20	—		"	4			X									

JW 2/17/20

440-261106 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 1 month)

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

Special Instructions/QC Requirements & Comments:

1.3/1.6 1.0/1.3

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp. (°C). Obs'd: 1.4 Corr'd: 1.7 Therm ID No.: IR 94

Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
[signature]	Geo-Logic	2-17-20 1440	[signature]	EC-IRV	2/17/2020 1440
[signature]	EC-IRV	2/17/2020 1635	[signature]	EC-IRV	2/17/20 1635
			Received in Laboratory by:		

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-261106-1

Login Number: 261106
List Number: 1
Creator: Soderblom, Tim

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 440-261176-1
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:
2/28/2020 2:14:13 PM

Rossina Tomova, Project Manager I
(949)260-3276
rossina.tomova@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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: 440-261176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-261176-1	DW-1	Water	02/18/20 11:40	02/18/20 16:00	
440-261176-2	Extraction Trench	Water	02/18/20 08:18	02/18/20 16:00	
440-261176-3	Sub Drain (N)	Water	02/18/20 12:25	02/18/20 16:00	
440-261176-4	MW-2A	Water	02/18/20 08:53	02/18/20 16:00	
440-261176-5	MW-2B	Water	02/18/20 09:44	02/18/20 16:00	
440-261176-6	MW-5	Water	02/18/20 08:20	02/18/20 16:00	
440-261176-7	MW-1	Water	02/18/20 09:50	02/18/20 16:00	
440-261176-8	MW-9	Water	02/18/20 12:49	02/18/20 16:00	
440-261176-9	MW-13R	Water	02/18/20 13:33	02/18/20 16:00	
440-261176-10	DW-4	Water	02/18/20 10:25	02/18/20 16:00	
440-261176-11	Field Blank	Water	02/18/20 00:01	02/18/20 16:00	
440-261176-12	Trip Blank	Water	02/18/20 00:01	02/18/20 16:00	
440-261176-13	DW-5	Water	02/18/20 11:27	02/18/20 16:00	

Job ID: 440-261176-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-261176-1

Comments
No additional comments.

Receipt
The samples were received on 2/18/2020 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.8º C, 2.0º C, 2.8º C and 3.4º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-596130 recovered above the upper control limit for Acrylonitrile and Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-596130 recovered outside control limit for the following analytes: Acrolein and Acrylonitrile. 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 continuing calibration verification (CCV) associated with batch 440-596133 recovered above the upper control limit for Acetonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DW-1 (440-261176-1), Extraction Trench (440-261176-2), Sub Drain (N) (440-261176-3), MW-2A (440-261176-4), MW-2B (440-261176-5), MW-5 (440-261176-6), MW-1 (440-261176-7), MW-9 (440-261176-8), MW-13R (440-261176-9), DW-4 (440-261176-10), Field Blank (440-261176-11), Trip Blank (440-261176-12), DW-5 (440-261176-13) and (CCVIS 440-596133/2).

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-596133 recovered outside control limits for the following analyte: Acetonitrile. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 440-596133 was outside control limits. Sample matrix interference is suspected.

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 continuing calibration blank (CCB) for analytical batch 440-596772 contained Potassium above the method detection limit (MDL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-596153. LCS was performed in duplicate to provide precision of data.

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

Job ID: 440-261176-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

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

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: DW-1

Date Collected: 02/18/20 11:40
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-1

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	0.40	ug/L			02/19/20 08:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 08:26	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 08:26	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 08:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 08:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 08:10	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 08:10	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 08:10	1
Acetone	ND		20	10	ug/L			02/19/20 08:10	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 08:10	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 08:10	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 08:10	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 08:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 08:10	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 08:10	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 08:10	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 08:10	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 08:10	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 08:10	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 08:10	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 08:10	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: DW-1

Date Collected: 02/18/20 11:40
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-1

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	0.40	ug/L			02/19/20 08:10	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Propionitrile	ND		20	10	ug/L			02/19/20 08:10	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 08:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 08:10	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 08:10	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 08:10	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 08:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 08:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 08:10	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 08:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 08:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 08:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 08:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 08:26*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 08:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/19/20 08:10*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/19/20 08:26*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/19/20 08:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 08:26	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 08:26	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*12*	*T J*	*ug/L*		*2.42*			*02/19/20 08:26*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/19/20 08:26*	*1*
Unknown	*120*	*T J*	*ug/L*		*15.23*			*02/19/20 08:26*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 08:26*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 08:26*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/19/20 08:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.1	0.26	ug/L		02/19/20 07:16	02/20/20 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*72*		*30 - 120*	*02/19/20 07:16*	*02/20/20 15:29*	*1*

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: DW-1

Lab Sample ID: 440-261176-1
Date Collected: 02/18/20 11:40
Matrix: Water
Date Received: 02/18/20 16:00

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			02/19/20 14:58	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.4		0.50	0.25	mg/L		02/19/20 09:44	02/25/20 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.1		0.20	0.10	mg/L			02/21/20 14:33	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:51	1
Total Dissolved Solids	3200		100	50	mg/L			02/24/20 09:36	1
Total Organic Carbon	3.1		0.10	0.050	mg/L			02/24/20 10:17	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	530		4.0	4.0	mg/L			02/19/20 08:22	1

Client Sample ID: Extraction Trench

Lab Sample ID: 440-261176-2
Date Collected: 02/18/20 08:18
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 08:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 08:54	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 08:54	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 08:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 08:34	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,4-Dichlorobenzene	1.3		0.50	0.25	ug/L			02/19/20 08:34	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 08:34	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 08:34	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 08:34	1
Acetone	ND		20	10	ug/L			02/19/20 08:34	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 08:34	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 08:34	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 08:34	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 08:34	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 08:34	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: Extraction Trench

Lab Sample ID: 440-261176-2

Date Collected: 02/18/20 08:18
Date Received: 02/18/20 16:00

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	0.25	ug/L			02/19/20 08:34	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 08:34	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
cis-1,2-Dichloroethene	**3.3**		0.50	0.25	ug/L			02/19/20 08:34	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 08:34	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:34	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 08:34	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 08:34	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 08:34	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 08:34	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:34	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 08:34	1
Methyl tert-butyl ether	**0.70**		0.50	0.25	ug/L			02/19/20 08:34	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 08:34	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Propionitrile	ND		20	10	ug/L			02/19/20 08:34	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
t-Butanol	**62**		10	5.0	ug/L			02/19/20 08:34	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Tetrahydrofuran	**19**		10	5.0	ug/L			02/19/20 08:34	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 08:34	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 08:34	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 08:34	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 08:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 08:34	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 08:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 08:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silane, fluorotrimethyl-	*19*	*T J N*	*ug/L*		*3.55*	*420-56-4*		*02/19/20 08:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 08:54*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/19/20 08:54*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 08:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/19/20 08:34*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 08:54*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/19/20 08:34*	*1*

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: Extraction Trench

Lab Sample ID: 440-261176-2
Date Collected: 02/18/20 08:18
Matrix: Water
Date Received: 02/18/20 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 08:54	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 08:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7.7*	*T J*	*ug/L*		*14.88*			*02/19/20 08:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 08:54*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/19/20 08:54*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 08:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**49**		1.0	0.25	ug/L		02/19/20 07:16	02/20/20 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*71*		*30 - 120*	*02/19/20 07:16*	*02/20/20 15:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		50	25	mg/L			02/18/20 20:47	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**41**		0.50	0.25	mg/L		02/19/20 09:44	02/21/20 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**19**		1.0	0.50	mg/L			02/21/20 15:10	5
Chemical Oxygen Demand	**230**		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**4300**		100	50	mg/L			02/24/20 09:36	1
Total Organic Carbon	**80**		2.0	1.0	mg/L			02/25/20 08:55	20

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**1100**		4.0	4.0	mg/L			02/19/20 08:41	1

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3
Date Collected: 02/18/20 12:25
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 08:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 09:22	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 09:22	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:57	1

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3

Date Collected: 02/18/20 12:25
Date Received: 02/18/20 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 08:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 08:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,4-Dichlorobenzene	**0.34**	**J**	0.50	0.25	ug/L			02/19/20 08:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 08:57	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 08:57	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 08:57	1
Acetone	ND		20	10	ug/L			02/19/20 08:57	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 08:57	1
Benzene	**0.49**	**J**	0.50	0.25	ug/L			02/19/20 08:57	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 08:57	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 08:57	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 08:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 08:57	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
cis-1,2-Dichloroethene	**1.1**		0.50	0.25	ug/L			02/19/20 08:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 08:57	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:57	1
Ethylbenzene	**0.64**		0.50	0.25	ug/L			02/19/20 08:57	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 08:57	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 08:57	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 08:57	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 08:57	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 08:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 08:57	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 08:57	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Propionitrile	ND		20	10	ug/L			02/19/20 08:57	1
Styrene	**0.61**		0.50	0.25	ug/L			02/19/20 08:57	1
t-Butanol	**55**		10	5.0	ug/L			02/19/20 08:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Tetrahydrofuran	**10**		10	5.0	ug/L			02/19/20 08:57	1
Toluene	**0.25**	**J**	0.50	0.25	ug/L			02/19/20 08:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 08:57	1

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3

Date Collected: 02/18/20 12:25
Date Received: 02/18/20 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 08:57	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 08:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 08:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 08:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 08:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 08:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Propene, 2-methyl-	*3.2*	*T J N*	*ug/L*		*3.26*	*115-11-7*		*02/19/20 08:57*	*1*
Silane, fluorotrimethyl-	*4.0*	*T J N*	*ug/L*		*3.54*	*420-56-4*		*02/19/20 08:57*	*1*
Unknown	*9.3*	*T J*	*ug/L*		*5.09*			*02/19/20 08:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 09:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/19/20 09:22*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 08:57*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/19/20 08:57*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/19/20 09:22*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/19/20 08:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 09:22	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 09:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.6*	*T J*	*ug/L*		*2.20*			*02/19/20 09:22*	*1*
Unknown	*3.9*	*T J*	*ug/L*		*14.11*			*02/19/20 09:22*	*1*
Unknown	*5.8*	*T J*	*ug/L*		*14.62*			*02/19/20 09:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 09:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/19/20 09:22*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/19/20 09:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**32**		1.0	0.26	ug/L		02/19/20 07:16	02/20/20 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*57*		*30 - 120*	*02/19/20 07:16*	*02/20/20 16:12*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**630**		50	25	mg/L			02/18/20 21:03	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**33**		1.0	0.50	mg/L		02/19/20 09:44	02/25/20 12:40	2

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3
Date Collected: 02/18/20 12:25
Matrix: Water
Date Received: 02/18/20 16:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	48		1.0	0.50	mg/L			02/21/20 15:00	5
Chemical Oxygen Demand	460		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	5100		100	50	mg/L			02/24/20 09:36	1
Total Organic Carbon	220		10	5.0	mg/L			02/25/20 07:17	100

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	1200		4.0	4.0	mg/L			02/19/20 09:00	1

Client Sample ID: MW-2A

Lab Sample ID: 440-261176-4
Date Collected: 02/18/20 08:53
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 09:21	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 09:51	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 09:51	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 09:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 09:21	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 09:21	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 09:21	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 09:21	1
Acetone	ND	F2	20	10	ug/L			02/19/20 09:21	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 09:21	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 09:21	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 09:21	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 09:21	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 09:21	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1

Client Sample ID: MW-2A

Date Collected: 02/18/20 08:53
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-4

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	0.25	ug/L			02/19/20 09:21	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 09:21	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 09:21	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 09:21	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 09:21	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 09:21	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 09:21	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 09:21	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 09:21	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 09:21	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Propionitrile	ND		20	10	ug/L			02/19/20 09:21	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 09:21	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Tetrahydrofuran	ND	F1	10	5.0	ug/L			02/19/20 09:21	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 09:21	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 09:21	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 09:21	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 09:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 09:21	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 09:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 09:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 09:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 09:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 09:51*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 09:21*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/19/20 09:21*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/19/20 09:51*	*1*
Dibromofluoromethane (Surr)	*106*		*76 - 132*		*02/19/20 09:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 09:51	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 09:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*17*	*T J*	*ug/L*		*2.60*			*02/19/20 09:51*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/19/20 09:51*	*1*

Client Sample ID: MW-2A

Lab Sample ID: 440-261176-4
Matrix: Water

Date Collected: 02/18/20 08:53
Date Received: 02/18/20 16:00

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		16.57			02/19/20 09:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 128		02/19/20 09:51	1
4-Bromofluorobenzene (Surr)	106		80 - 120		02/19/20 09:51	1
Dibromofluoromethane (Surr)	98		76 - 132		02/19/20 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		30 - 120	02/19/20 07:16	02/20/20 16:34	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**		5.0	2.5	mg/L			02/19/20 15:15	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**5.6**		0.50	0.25	mg/L		02/19/20 09:44	02/25/20 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.5**		0.20	0.10	mg/L			02/21/20 15:16	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**2600**		50	25	mg/L			02/24/20 09:36	1
Total Organic Carbon	**3.5**		0.10	0.050	mg/L			02/24/20 10:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**350**		4.0	4.0	mg/L			02/19/20 09:10	1

Client Sample ID: MW-2B

Lab Sample ID: 440-261176-5
Matrix: Water

Date Collected: 02/18/20 09:44
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 10:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 10:19	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 10:19	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 10:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 10:32	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-2B

Lab Sample ID: 440-261176-5

Date Collected: 02/18/20 09:44
Date Received: 02/18/20 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 10:32	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 10:32	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 10:32	1
Acetone	ND		20	10	ug/L			02/19/20 10:32	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 10:32	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 10:32	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 10:32	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 10:32	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 10:32	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 10:32	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 10:32	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 10:32	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 10:32	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 10:32	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 10:32	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 10:32	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 10:32	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 10:32	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Propionitrile	ND		20	10	ug/L			02/19/20 10:32	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 10:32	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 10:32	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 10:32	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 10:32	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 10:32	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-2B

Date Collected: 02/18/20 09:44
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 10:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 10:32	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 10:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 10:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 10:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 10:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/19/20 10:19*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 10:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/19/20 10:32*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/19/20 10:19*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/19/20 10:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 10:19	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 10:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*2.85*			*02/19/20 10:19*	*1*
Unknown	*5.1*	*T J*	*ug/L*		*16.52*			*02/19/20 10:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 10:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/19/20 10:19*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/19/20 10:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.96	0.24	ug/L		02/19/20 07:16	02/20/20 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*68*		*30 - 120*	*02/19/20 07:16*	*02/20/20 16:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		2.5	1.3	mg/L			02/19/20 22:29	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		02/19/20 09:44	02/25/20 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**4.0**		0.20	0.10	mg/L			02/21/20 15:21	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**2600**		50	25	mg/L			02/24/20 09:36	1
Total Organic Carbon	**1.9**		0.10	0.050	mg/L			02/24/20 11:04	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-2B

Lab Sample ID: 440-261176-5

Date Collected: 02/18/20 09:44
Date Received: 02/18/20 16:00

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	330		4.0	4.0	mg/L			02/19/20 09:19	1

Client Sample ID: MW-5

Lab Sample ID: 440-261176-6

Date Collected: 02/18/20 08:20
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 10:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 11:43	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 11:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 10:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 10:56	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 10:56	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 10:56	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 10:56	1
Acetone	ND		20	10	ug/L			02/19/20 10:56	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 10:56	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 10:56	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 10:56	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 10:56	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 10:56	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 10:56	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 10:56	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 10:56	1

Client Sample ID: MW-5

Date Collected: 02/18/20 08:20
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 10:56	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 10:56	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 10:56	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 10:56	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 10:56	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 10:56	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Propionitrile	ND		20	10	ug/L			02/19/20 10:56	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
t-Butanol	**16**		10	5.0	ug/L			02/19/20 10:56	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 10:56	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 10:56	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 10:56	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 10:56	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 10:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 10:56	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 10:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silane, fluorotrimethyl-	*7.4*	*T J N*	*ug/L*		*3.53*	*420-56-4*		*02/19/20 10:56*	*1*
Unknown	*5.1*	*T J*	*ug/L*		*5.78*			*02/19/20 10:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 11:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 11:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/19/20 10:56*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/19/20 10:56*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 11:43*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/19/20 10:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 11:43	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 11:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*12*	*T J*	*ug/L*		*2.89*			*02/19/20 11:43*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/19/20 11:43*	*1*
Unknown	*5.7*	*T J*	*ug/L*		*16.51*			*02/19/20 11:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 11:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 11:43*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 11:43*	*1*

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-5

Lab Sample ID: 440-261176-6
Matrix: Water

Date Collected: 02/18/20 08:20
Date Received: 02/18/20 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.8		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*71*		*30 - 120*	*02/19/20 07:16*	*02/20/20 17:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		25	13	mg/L			02/19/20 16:06	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	23		0.50	0.25	mg/L		02/19/20 09:44	02/21/20 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	4.0		0.20	0.10	mg/L			02/21/20 15:31	1
Chemical Oxygen Demand	14	J	20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	3000		50	25	mg/L			02/24/20 09:36	1
Total Organic Carbon	17		0.50	0.25	mg/L			02/25/20 08:22	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	560		4.0	4.0	mg/L			02/19/20 09:31	1

Client Sample ID: MW-1

Lab Sample ID: 440-261176-7
Matrix: Water

Date Collected: 02/18/20 09:50
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 11:19	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 12:11	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 12:11	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 11:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 11:19	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 11:19	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 11:19	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 11:19	1
Acetone	ND		20	10	ug/L			02/19/20 11:19	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 11:19	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-1

Lab Sample ID: 440-261176-7

Date Collected: 02/18/20 09:50
Date Received: 02/18/20 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 11:19	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 11:19	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 11:19	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 11:19	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 11:19	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 11:19	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 11:19	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 11:19	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 11:19	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 11:19	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 11:19	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 11:19	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 11:19	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Propionitrile	ND		20	10	ug/L			02/19/20 11:19	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 11:19	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 11:19	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 11:19	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 11:19	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 11:19	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 11:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 11:19	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 11:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 11:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 11:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 12:11*	*1*

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-1

Date Collected: 02/18/20 09:50
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-7

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 12:11*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/19/20 11:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/19/20 11:19*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 12:11*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/19/20 11:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 12:11	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 12:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*12*	*T J*	*ug/L*		*2.60*			*02/19/20 12:11*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/19/20 12:11*	*1*
Unknown	*10*	*T J*	*ug/L*		*14.37*			*02/19/20 12:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 12:11*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 12:11*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/19/20 12:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.85**	**J**	0.98	0.24	ug/L		02/19/20 07:16	02/20/20 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*69*		*30 - 120*	*02/19/20 07:16*	*02/20/20 17:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50**		10	5.0	mg/L			02/19/20 17:45	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		02/19/20 09:44	02/21/20 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.9**		0.20	0.10	mg/L			02/21/20 15:36	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**1100**		10	5.0	mg/L			02/24/20 09:36	1
Total Organic Carbon	**7.2**		0.10	0.050	mg/L			02/24/20 11:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**280**		4.0	4.0	mg/L			02/19/20 09:40	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-9

Date Collected: 02/18/20 12:49
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-8

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	0.40	ug/L			02/19/20 11:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 12:40	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 12:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 11:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 11:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 11:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 11:43	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 11:43	1
Acetone	ND		20	10	ug/L			02/19/20 11:43	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 11:43	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 11:43	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 11:43	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 11:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 11:43	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
cis-1,2-Dichloroethene	**0.51**		0.50	0.25	ug/L			02/19/20 11:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 11:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 11:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 11:43	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 11:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 11:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 11:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 11:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 11:43	1
Methyl tert-butyl ether	**0.68**		0.50	0.25	ug/L			02/19/20 11:43	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-9

Date Collected: 02/18/20 12:49
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-8

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	0.40	ug/L			02/19/20 11:43	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Propionitrile	ND		20	10	ug/L			02/19/20 11:43	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
t-Butanol	**16**		10	5.0	ug/L			02/19/20 11:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Tetrahydrofuran	**6.0**	**J**	10	5.0	ug/L			02/19/20 11:43	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 11:43	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 11:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 11:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 11:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 11:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 11:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silane, fluorotrimethyl-	*5.9*	*T J N*	*ug/L*		*3.54*	*420-56-4*		*02/19/20 11:43*	*1*
Silanol, trimethyl-	*6.4*	*T J N*	*ug/L*		*5.78*	*1066-40-6*		*02/19/20 11:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 12:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 12:40*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 11:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/19/20 11:43*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/19/20 12:40*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/19/20 11:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 12:40	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 12:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*26*	*T J*	*ug/L*		*2.60*			*02/19/20 12:40*	*1*
Unknown	*4.7*	*T J*	*ug/L*		*5.04*			*02/19/20 12:40*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/19/20 12:40*	*1*
Unknown	*12*	*T J*	*ug/L*		*16.32*			*02/19/20 12:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*02/19/20 12:40*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 12:40*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/19/20 12:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**24**		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 17:58	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: MW-9

Lab Sample ID: 440-261176-8
Date Collected: 02/18/20 12:49
Matrix: Water
Date Received: 02/18/20 16:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*69*		*30 - 120*	*02/19/20 07:16*	*02/20/20 17:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		50	25	mg/L			02/19/20 18:02	100

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		02/19/20 09:44	02/21/20 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**6.0**		0.20	0.10	mg/L			02/21/20 15:41	1
Chemical Oxygen Demand	**44**		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**3600**		50	25	mg/L			02/24/20 09:36	1
Total Organic Carbon	**26**		0.50	0.25	mg/L			02/25/20 08:39	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**700**		4.0	4.0	mg/L			02/19/20 09:54	1

Client Sample ID: MW-13R

Lab Sample ID: 440-261176-9
Date Collected: 02/18/20 13:33
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 12:07	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 13:08	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 13:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 12:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 12:07	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 12:07	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 12:07	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 12:07	1
Acetone	ND		20	10	ug/L			02/19/20 12:07	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 12:07	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 12:07	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 12:07	1

Client Sample ID: MW-13R

Date Collected: 02/18/20 13:33
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 12:07	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 12:07	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 12:07	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:07	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 12:07	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 12:07	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 12:07	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 12:07	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:07	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 12:07	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 12:07	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Propionitrile	ND		20	10	ug/L			02/19/20 12:07	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 12:07	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 12:07	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 12:07	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 12:07	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 12:07	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 12:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 12:07	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 12:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*160*	*T J*	*ug/L*		*2.64*			*02/19/20 12:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 13:08*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/19/20 13:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 12:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/19/20 12:07*	*1*

Client Sample ID: MW-13R
Date Collected: 02/18/20 13:33
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-9
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		76 - 132		02/19/20 13:08	1
Dibromofluoromethane (Surr)	105		76 - 132		02/19/20 12:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 13:08	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 13:08	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	T J	ug/L		2.17			02/19/20 13:08	1
Unknown	12	T J	ug/L		2.88			02/19/20 13:08	1
Unknown	11	T J	ug/L		6.52			02/19/20 13:08	1
Unknown	4.5	T J	ug/L		15.75			02/19/20 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 128		02/19/20 13:08	1
4-Bromofluorobenzene (Surr)	108		80 - 120		02/19/20 13:08	1
Dibromofluoromethane (Surr)	105		76 - 132		02/19/20 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**7.4**		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	63		30 - 120	02/19/20 07:16	02/20/20 18:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		25	13	mg/L			02/19/20 18:19	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**24**		0.50	0.25	mg/L		02/19/20 09:44	02/21/20 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**44**		1.0	0.50	mg/L			02/21/20 15:47	5
Chemical Oxygen Demand	**190**		20	10	mg/L			02/25/20 13:52	1
Total Dissolved Solids	**1100**		10	5.0	mg/L			02/24/20 09:36	1
Total Organic Carbon	**23**		0.50	0.25	mg/L			02/25/20 06:10	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**670**		4.0	4.0	mg/L			02/19/20 10:10	1

Client Sample ID: DW-4
Date Collected: 02/18/20 10:25
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-10
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	0.40	ug/L			02/19/20 12:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1

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

Job ID: 440-261176-1

Client Sample ID: DW-4

Date Collected: 02/18/20 10:25
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	50	2.5	ug/L			02/19/20 13:36	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 13:36	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 12:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 12:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 12:31	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 12:31	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 12:31	1
Acetone	ND		20	10	ug/L			02/19/20 12:31	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 12:31	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 12:31	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 12:31	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Carbon disulfide	**1.4**		1.0	0.50	ug/L			02/19/20 12:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 12:31	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 12:31	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 12:31	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 12:31	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 12:31	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 12:31	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 12:31	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 12:31	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 12:31	1

Client Sample ID: DW-4

Date Collected: 02/18/20 10:25
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		20	10	ug/L			02/19/20 12:31	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 12:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 12:31	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 12:31	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 12:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 12:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 12:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 12:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 12:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 12:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 13:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 13:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 12:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*02/19/20 12:31*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/19/20 13:36*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/19/20 12:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 13:36	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 13:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*15*	*T J*	*ug/L*		*2.89*			*02/19/20 13:36*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/19/20 13:36*	*1*
Unknown	*6.4*	*T J*	*ug/L*		*16.07*			*02/19/20 13:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 13:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 13:36*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*02/19/20 13:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.96	0.24	ug/L		02/19/20 07:16	02/20/20 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*64*		*30 - 120*	*02/19/20 07:16*	*02/20/20 18:41*	*1*

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: DW-4

Lab Sample ID: 440-261176-10
Date Collected: 02/18/20 10:25
Matrix: Water
Date Received: 02/18/20 16:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		2.5	1.3	mg/L			02/19/20 22:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.8		0.50	0.25	mg/L		02/19/20 09:44	02/25/20 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	5.0		0.20	0.10	mg/L			02/21/20 15:52	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:53	1
Total Dissolved Solids	2900		50	25	mg/L			02/24/20 09:36	1
Total Organic Carbon	1.9		0.10	0.050	mg/L			02/25/20 05:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	340		4.0	4.0	mg/L			02/19/20 10:20	1

Client Sample ID: Field Blank

Lab Sample ID: 440-261176-11
Date Collected: 02/18/20 00:01
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 12:54	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 14:05	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 14:05	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 12:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 12:54	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 12:54	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 12:54	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 12:54	1
Acetone	ND		20	10	ug/L			02/19/20 12:54	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 12:54	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 12:54	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 12:54	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 12:54	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 12:54	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: Field Blank

Lab Sample ID: 440-261176-11

Date Collected: 02/18/20 00:01
Date Received: 02/18/20 16:00

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	0.25	ug/L			02/19/20 12:54	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 12:54	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 12:54	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:54	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 12:54	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 12:54	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 12:54	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 12:54	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 12:54	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 12:54	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 12:54	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Propionitrile	ND		20	10	ug/L			02/19/20 12:54	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 12:54	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 12:54	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 12:54	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 12:54	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 12:54	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 12:54	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 12:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 12:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 12:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 12:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 14:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/19/20 14:05*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 12:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/19/20 12:54*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/19/20 14:05*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/19/20 12:54*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 440-261176-11

Date Collected: 02/18/20 00:01
Matrix: Water
Date Received: 02/18/20 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 14:05	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 14:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*2.87*			*02/19/20 14:05*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/19/20 14:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/19/20 14:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*02/19/20 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/19/20 14:05*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-261176-12

Date Collected: 02/18/20 00:01
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 13:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 14:33	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 14:33	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 13:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 13:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 13:18	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 13:18	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 13:18	1
Acetone	ND		20	10	ug/L			02/19/20 13:18	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 13:18	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 13:18	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 13:18	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 13:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 13:18	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261176-12

Date Collected: 02/18/20 00:01
Date Received: 02/18/20 16:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 13:18	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 13:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 13:18	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 13:18	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 13:18	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 13:18	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 13:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 13:18	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 13:18	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Propionitrile	ND		20	10	ug/L			02/19/20 13:18	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 13:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 13:18	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 13:18	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 13:18	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 13:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 13:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 13:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 13:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 13:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*02/19/20 14:33*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 14:33*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/19/20 13:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/19/20 13:18*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/19/20 14:33*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/19/20 13:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 14:33	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261176-12
Date Collected: 02/18/20 00:01
Matrix: Water
Date Received: 02/18/20 16:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 14:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*13*	*T J*	*ug/L*		*2.59*			*02/19/20 14:33*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/19/20 14:33*	*1*
Unknown	*4.7*	*T J*	*ug/L*		*16.50*			*02/19/20 14:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*02/19/20 14:33*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/19/20 14:33*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*02/19/20 14:33*	*1*

Client Sample ID: DW-5

Lab Sample ID: 440-261176-13
Date Collected: 02/18/20 11:27
Matrix: Water
Date Received: 02/18/20 16:00

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	0.40	ug/L			02/19/20 13:42	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Acrolein	ND	*	50	2.5	ug/L			02/19/20 15:02	1
Acrylonitrile	ND	*	50	1.0	ug/L			02/19/20 15:02	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 13:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 13:42	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 13:42	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 13:42	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 13:42	1
Acetone	ND		20	10	ug/L			02/19/20 13:42	1
Acetonitrile	ND	*	20	10	ug/L			02/19/20 13:42	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 13:42	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 13:42	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 13:42	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 13:42	1

Client Sample Results

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

Job ID: 440-261176-1

Client Sample ID: DW-5

Date Collected: 02/18/20 11:27
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 13:42	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 13:42	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 13:42	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 13:42	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 13:42	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 13:42	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 13:42	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 13:42	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 13:42	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Propionitrile	ND		20	10	ug/L			02/19/20 13:42	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 13:42	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 13:42	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 13:42	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 13:42	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 13:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 13:42	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 13:42	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 13:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 13:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.9*	*T J*	*ug/L*		*3.50*			*02/19/20 13:42*	*1*
Unknown	*5.4*	*T J*	*ug/L*		*5.32*			*02/19/20 13:42*	*1*
Butane, 2,3-dimethyl-	*12*	*T J N*	*ug/L*		*5.87*	*79-29-8*		*02/19/20 13:42*	*1*
Benzene, (2-methylpropyl)-	*6.7*	*T J N*	*ug/L*		*13.08*	*538-93-2*		*02/19/20 13:42*	*1*
Benzene, (3-methyl-2-butenyl)-	*4.5*	*T J N*	*ug/L*		*14.17*	*4489-84-3*		*02/19/20 13:42*	*1*
1H-Indene, 2,3-dihydro-1,6-dimethyl-	*5.7*	*T J N*	*ug/L*		*14.24*	*17059-48-2*		*02/19/20 13:42*	*1*
Benzene, 1,2,3,5-tetramethyl-	*19*	*T J N*	*ug/L*		*14.40*	*527-53-7*		*02/19/20 13:42*	*1*
Benzene, pentamethyl-	*9.0*	*T J N*	*ug/L*		*15.15*	*700-12-9*		*02/19/20 13:42*	*1*
Benzene, 1,3-dimethyl-5-(1-methylethyl)-	*5.3*	*T J N*	*ug/L*		*15.62*	*4706-90-5*		*02/19/20 13:42*	*1*
1H-Indene, 2,3-dihydro-4,6-dimethyl-	*6.3*	*T J N*	*ug/L*		*16.03*	*1685-82-1*		*02/19/20 13:42*	*1*

Client Sample ID: DW-5

Date Collected: 02/18/20 11:27
Date Received: 02/18/20 16:00

Lab Sample ID: 440-261176-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		02/19/20 15:02	1
4-Bromofluorobenzene (Surr)	104		80 - 120		02/19/20 15:02	1
Toluene-d8 (Surr)	103		80 - 128		02/19/20 13:42	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/19/20 13:42	1
Dibromofluoromethane (Surr)	101		76 - 132		02/19/20 15:02	1
Dibromofluoromethane (Surr)	109		76 - 132		02/19/20 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND	*	5.0	2.5	ug/L			02/19/20 15:02	1
Acrylonitrile	ND	*	2.0	1.0	ug/L			02/19/20 15:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9.8	T J	ug/L		2.85			02/19/20 15:02	1
Unknown	5.8	T J	ug/L		4.55			02/19/20 15:02	1
Butane, 2,3-dimethyl-	8.6	T J N	ug/L		5.08	79-29-8		02/19/20 15:02	1
Unknown	11	T J	ug/L		6.52			02/19/20 15:02	1
Benzene, (2-methylpropyl)-	6.6	T J N	ug/L		12.23	538-93-2		02/19/20 15:02	1
Benzene, 1,2,4,5-tetramethyl-	16	T J N	ug/L		13.66	95-93-2		02/19/20 15:02	1
Benzene, 1,4-diethyl-2-methyl-	5.2	T J N	ug/L		14.02	13632-94-5		02/19/20 15:02	1
Unknown	7.5	T J	ug/L		14.36			02/19/20 15:02	1
Benzene, pentamethyl-	4.4	T J N	ug/L		14.77	700-12-9		02/19/20 15:02	1
Benzene, (1-methyl-1-butenyl)-	4.9	T J N	ug/L		15.12	53172-84-2		02/19/20 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		02/19/20 15:02	1
4-Bromofluorobenzene (Surr)	104		80 - 120		02/19/20 15:02	1
Dibromofluoromethane (Surr)	101		76 - 132		02/19/20 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.97	0.24	ug/L		02/19/20 07:16	02/20/20 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	67		30 - 120	02/19/20 07:16	02/20/20 19:02	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			02/19/20 23:03	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**1.3**		0.50	0.25	mg/L		02/19/20 09:44	02/25/20 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.21**		0.20	0.10	mg/L			02/21/20 16:07	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:53	1
Total Dissolved Solids	**1100**		10	5.0	mg/L			02/24/20 09:36	1
Total Organic Carbon	**7.9**		0.10	0.050	mg/L			02/24/20 10:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**940**		4.0	4.0	mg/L			02/19/20 10:37	1

Method Summary

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

Job ID: 440-261176-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-261176-1

Client Sample ID: DW-1

Lab Sample ID: 440-261176-1

Date Collected: 02/18/20 11:40
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 08:26	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 08:10	TCN	TAL IRV
Total/NA	Prep	3520C			950 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 15:29	JS1	TAL IRV
Total/NA	Analysis	300.0		10	5 mL	1.0 mL	596180	02/19/20 14:58	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			597229	02/25/20 15:02	TQN	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 14:33	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:51	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 08:22	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 10:17	YZ	TAL IRV

Client Sample ID: Extraction Trench

Lab Sample ID: 440-261176-2

Date Collected: 02/18/20 08:18
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 08:54	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 08:34	TCN	TAL IRV
Total/NA	Prep	3520C			995 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 15:50	JS1	TAL IRV
Total/NA	Analysis	300.0		100			595960	02/18/20 20:47	OH1	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596772	02/21/20 17:34	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	596738	02/21/20 15:10	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 08:41	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		20	100 mL	100 mL	597304	02/25/20 08:55	YZ	TAL IRV

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3

Date Collected: 02/18/20 12:25
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 09:22	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 08:57	TCN	TAL IRV
Total/NA	Prep	3520C			975 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 16:12	JS1	TAL IRV
Total/NA	Analysis	300.0		100			595960	02/18/20 21:03	OH1	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		2			597197	02/25/20 12:40	TQN	TAL IRV

Lab Chronicle

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

Job ID: 440-261176-1

Client Sample ID: Sub Drain (N)

Lab Sample ID: 440-261176-3
Date Collected: 02/18/20 12:25
Matrix: Water
Date Received: 02/18/20 16:00

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		5	0.8 mL	8.0 mL	596738	02/21/20 15:00	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:00	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		100	100 mL	100 mL	597304	02/25/20 07:17	YZ	TAL IRV

Client Sample ID: MW-2A

Lab Sample ID: 440-261176-4
Date Collected: 02/18/20 08:53
Matrix: Water
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 09:51	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 09:21	TCN	TAL IRV
Total/NA	Prep	3520C			1035 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 16:34	JS1	TAL IRV
Total/NA	Analysis	300.0		100	5 mL	1.0 mL	595960	02/18/20 21:18	OH1	TAL IRV
Total/NA	Analysis	300.0		10			596180	02/19/20 15:15	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			597229	02/25/20 15:04	TQN	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 15:16	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:10	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 10:50	YZ	TAL IRV

Client Sample ID: MW-2B

Lab Sample ID: 440-261176-5
Date Collected: 02/18/20 09:44
Matrix: Water
Date Received: 02/18/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	596130	02/19/20 10:19	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 10:32	TCN	TAL IRV
Total/NA	Prep	3520C			1040 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 16:55	JS1	TAL IRV
Total/NA	Analysis	300.0		5			596180	02/19/20 22:29	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			597229	02/25/20 15:07	TQN	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 15:21	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:19	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 11:04	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-261176-1

Client Sample ID: MW-5

Lab Sample ID: 440-261176-6
Date Collected: 02/18/20 08:20
Matrix: Water
Date Received: 02/18/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	596130	02/19/20 11:43	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 10:56	TCN	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 17:16	JS1	TAL IRV
Total/NA	Analysis	300.0		50			596180	02/19/20 16:06	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596772	02/21/20 17:43	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 15:31	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:31	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	597304	02/25/20 08:22	YZ	TAL IRV

Client Sample ID: MW-1

Lab Sample ID: 440-261176-7
Date Collected: 02/18/20 09:50
Matrix: Water
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 12:11	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 11:19	TCN	TAL IRV
Total/NA	Prep	3520C			1025 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 17:37	JS1	TAL IRV
Total/NA	Analysis	300.0		20			596180	02/19/20 17:45	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596772	02/21/20 17:54	KE	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 15:36	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:40	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 11:37	YZ	TAL IRV

Client Sample ID: MW-9

Lab Sample ID: 440-261176-8
Date Collected: 02/18/20 12:49
Matrix: Water
Date Received: 02/18/20 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	596130	02/19/20 12:40	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 11:43	TCN	TAL IRV
Total/NA	Prep	3520C			1035 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 17:58	JS1	TAL IRV
Total/NA	Analysis	300.0		100			596180	02/19/20 18:02	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596772	02/21/20 17:58	KE	TAL IRV

Lab Chronicle

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

Job ID: 440-261176-1

Client Sample ID: MW-9

Lab Sample ID: 440-261176-8
Date Collected: 02/18/20 12:49
Matrix: Water
Date Received: 02/18/20 16:00

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	8.0 mL	596738	02/21/20 15:41	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 09:54	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	597304	02/25/20 08:39	YZ	TAL IRV

Client Sample ID: MW-13R

Lab Sample ID: 440-261176-9
Date Collected: 02/18/20 13:33
Matrix: Water
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 13:08	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 12:07	TCN	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 18:20	JS1	TAL IRV
Total/NA	Analysis	300.0		50			596180	02/19/20 18:19	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596772	02/21/20 18:01	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	596738	02/21/20 15:47	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:52	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 10:10	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	597304	02/25/20 06:10	YZ	TAL IRV

Client Sample ID: DW-4

Lab Sample ID: 440-261176-10
Date Collected: 02/18/20 10:25
Matrix: Water
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 13:36	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 12:31	TCN	TAL IRV
Total/NA	Prep	3520C			1040 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 18:41	JS1	TAL IRV
Total/NA	Analysis	300.0		5			596180	02/19/20 22:46	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			597229	02/25/20 15:10	TQN	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 15:52	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:53	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 10:20	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597304	02/25/20 05:39	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-261176-1

Client Sample ID: Field Blank

Lab Sample ID: 440-261176-11

Date Collected: 02/18/20 00:01
Date Received: 02/18/20 16:00

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	RA	1	10 mL	10 mL	596130	02/19/20 14:05	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 12:54	TCN	TAL IRV

Client Sample ID: Trip Blank

Lab Sample ID: 440-261176-12

Date Collected: 02/18/20 00:01
Date Received: 02/18/20 16:00

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	10 mL	10 mL	596130	02/19/20 14:33	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 13:18	TCN	TAL IRV

Client Sample ID: DW-5

Lab Sample ID: 440-261176-13

Date Collected: 02/18/20 11:27
Date Received: 02/18/20 16:00

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	RA	1	10 mL	10 mL	596130	02/19/20 15:02	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596133	02/19/20 13:42	TCN	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596153	02/19/20 07:16	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596432	02/20/20 19:02	JS1	TAL IRV
Total/NA	Analysis	300.0	DL	50			596180	02/19/20 18:53	NTN	TAL IRV
Total/NA	Analysis	300.0		5			596180	02/19/20 23:03	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596250	02/19/20 09:44	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			597229	02/25/20 15:13	TQN	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	596738	02/21/20 16:07	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:53	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596330	02/19/20 10:37	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	596924	02/24/20 09:36	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 10:33	YZ	TAL IRV

Laboratory References:

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 440-596130/4
Matrix: Water
Analysis Batch: 596130

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			02/19/20 07:57	1
Acrylonitrile	ND		50	1.0	ug/L			02/19/20 07:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/19/20 07:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/19/20 07:57*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/19/20 07:57*	*1*

Lab Sample ID: LCS 440-596130/1002
Matrix: Water
Analysis Batch: 596130

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	9.88	14.9	J *	ug/L		150	10 - 145
Acrylonitrile	100	144	*	ug/L		144	48 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*

Lab Sample ID: 440-261176-5 MS
Matrix: Water
Analysis Batch: 596130

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	ND	*	9.88	11.0	J	ug/L		112	10 - 147
Acrylonitrile	ND	*	100	127		ug/L		127	38 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

Lab Sample ID: 440-261176-5 MSD
Matrix: Water
Analysis Batch: 596130

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein	ND	*	9.88	12.2	J	ug/L		124	10 - 147	10	40
Acrylonitrile	ND	*	100	130		ug/L		130	38 - 144	2	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*

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

Lab Sample ID: MB 440-596133/4
Matrix: Water
Analysis Batch: 596133

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	0.40	ug/L			02/19/20 07:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/19/20 07:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/19/20 07:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/19/20 07:45	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/19/20 07:45	1
2-Hexanone	ND		5.0	2.5	ug/L			02/19/20 07:45	1
Acetone	ND		20	10	ug/L			02/19/20 07:45	1
Acetonitrile	ND		20	10	ug/L			02/19/20 07:45	1
Acrolein	ND		5.0	2.5	ug/L			02/19/20 07:45	1
Acrylonitrile	ND		2.0	1.0	ug/L			02/19/20 07:45	1
Benzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Allyl chloride	ND		1.0	0.50	ug/L			02/19/20 07:45	1
Bromoform	ND		1.0	0.40	ug/L			02/19/20 07:45	1
Bromomethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/19/20 07:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Chloroethane	ND		1.0	0.40	ug/L			02/19/20 07:45	1
Chloroform	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Chloromethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Dibromomethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/19/20 07:45	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 07:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Iodomethane	ND		2.0	1.0	ug/L			02/19/20 07:45	1
Isobutyl alcohol	ND		25	13	ug/L			02/19/20 07:45	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/19/20 07:45	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/19/20 07:45	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/19/20 07:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/19/20 07:45	1

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

Lab Sample ID: MB 440-596133/4
Matrix: Water
Analysis Batch: 596133

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	0.25	ug/L			02/19/20 07:45	1
Naphthalene	ND		1.0	0.40	ug/L			02/19/20 07:45	1
o-Xylene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Propionitrile	ND		20	10	ug/L			02/19/20 07:45	1
Styrene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
t-Butanol	ND		10	5.0	ug/L			02/19/20 07:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/19/20 07:45	1
Toluene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/19/20 07:45	1
Trichloroethene	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/19/20 07:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/19/20 07:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/19/20 07:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/19/20 07:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/19/20 07:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/19/20 07:45	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonyl Aldehyde	*3.48*	*J*	*ug/L*		*13.96*	*124-19-6*		*02/19/20 07:45*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/19/20 07:45*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/19/20 07:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/19/20 07:45*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/19/20 07:45*	*1*

Lab Sample ID: LCS 440-596133/1002
Matrix: Water
Analysis Batch: 596133

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	25.0	23.9		ug/L		96	63 - 130
1,1,1,2-Tetrachloroethane	25.0	24.3		ug/L		97	60 - 141
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	63 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	23.1		ug/L		92	64 - 130
1,1-Dichloroethene	25.0	22.9		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	23.4		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		106	52 - 140
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	25.2		ug/L		101	57 - 138
1,2-Dichloropropane	25.0	24.0		ug/L		96	67 - 130
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130

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

Lab Sample ID: LCS 440-596133/1002
Matrix: Water
Analysis Batch: 596133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	25.0	21.8		ug/L		87	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	27.9		ug/L		112	68 - 141
2-Hexanone	125	126		ug/L		101	10 - 150
Acetone	125	159		ug/L		128	10 - 150
Benzene	25.0	23.3		ug/L		93	68 - 130
Bromoform	25.0	26.8		ug/L		107	60 - 148
Bromomethane	25.0	22.3		ug/L		89	64 - 139
Carbon disulfide	25.0	23.5		ug/L		94	52 - 136
Carbon tetrachloride	25.0	26.8		ug/L		107	60 - 150
Chlorobenzene	25.0	22.3		ug/L		89	70 - 130
Bromochloromethane	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	23.4		ug/L		94	64 - 135
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	20.6		ug/L		82	47 - 140
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 133
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	70 - 133
Dibromochloromethane	25.0	25.1		ug/L		100	69 - 145
Dibromomethane	25.0	25.4		ug/L		102	70 - 130
Bromodichloromethane	25.0	26.2		ug/L		105	70 - 132
Dichlorodifluoromethane	25.0	20.4		ug/L		82	29 - 150
Ethylbenzene	25.0	21.5		ug/L		86	70 - 130
m,p-Xylene	25.0	23.1		ug/L		92	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	52 - 130
Methyl tert-butyl ether	25.0	26.2		ug/L		105	63 - 131
Naphthalene	25.0	24.5		ug/L		98	60 - 140
o-Xylene	25.0	22.8		ug/L		91	70 - 130
Styrene	25.0	24.7		ug/L		99	70 - 134
t-Butanol	250	306		ug/L		122	70 - 130
Tetrachloroethene	25.0	23.4		ug/L		94	70 - 130
Toluene	25.0	21.2		ug/L		85	70 - 130
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	70 - 130
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 132
Trichloroethene	25.0	23.6		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	60 - 150
Vinyl acetate	25.0	30.7		ug/L		123	48 - 140
Vinyl chloride	25.0	20.7		ug/L		83	59 - 133
1,2-Dibromoethane (EDB)	25.0	24.2		ug/L		97	70 - 130
2-Butanone (MEK)	125	132		ug/L		105	44 - 150
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 128*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*

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

Lab Sample ID: 440-261176-4 MS
Matrix: Water
Analysis Batch: 596133

Client Sample ID: MW-2A
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	9.79		ug/L		98	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	9.79		ug/L		98	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	11.4		ug/L		114	63 - 130
1,1,2-Trichloroethane	ND		10.0	9.13		ug/L		91	70 - 130
1,1-Dichloroethane	ND		10.0	9.81		ug/L		98	65 - 130
1,1-Dichloroethene	ND		10.0	9.00		ug/L		90	70 - 130
1,1-Dichloropropene	ND		10.0	9.05		ug/L		91	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	8.95		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	10.2		ug/L		102	48 - 140
1,2-Dichlorobenzene	ND		10.0	9.14		ug/L		91	70 - 130
1,2-Dichloroethane	ND		10.0	10.1		ug/L		101	56 - 146
1,2-Dichloropropane	ND		10.0	9.68		ug/L		97	69 - 130
1,3-Dichlorobenzene	ND		10.0	9.47		ug/L		95	70 - 130
1,3-Dichloropropane	ND		10.0	9.05		ug/L		90	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.52		ug/L		95	70 - 130
2,2-Dichloropropane	ND		10.0	10.0		ug/L		100	69 - 138
2-Hexanone	ND		50.0	50.9		ug/L		102	10 - 150
Acetone	ND	F2	50.0	33.6		ug/L		67	10 - 150
Benzene	ND		10.0	9.32		ug/L		93	66 - 130
Bromoform	ND		10.0	10.1		ug/L		101	59 - 150
Bromomethane	ND		10.0	8.60		ug/L		86	62 - 131
Carbon disulfide	ND		10.0	9.00		ug/L		90	49 - 140
Carbon tetrachloride	ND		10.0	10.2		ug/L		102	60 - 150
Chlorobenzene	ND		10.0	9.05		ug/L		90	70 - 130
Bromochloromethane	ND		10.0	10.3		ug/L		103	70 - 130
Chloroethane	ND		10.0	8.53		ug/L		85	68 - 130
Chloroform	ND		10.0	9.97		ug/L		100	70 - 130
Chloromethane	ND		10.0	7.96		ug/L		80	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.17		ug/L		92	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.23		ug/L		92	70 - 133
Dibromochloromethane	ND		10.0	9.61		ug/L		96	70 - 148
Dibromomethane	ND		10.0	9.49		ug/L		95	70 - 130
Bromodichloromethane	ND		10.0	9.92		ug/L		99	70 - 138
Dichlorodifluoromethane	ND		10.0	6.80		ug/L		68	25 - 142
Ethylbenzene	ND		10.0	8.83		ug/L		88	70 - 130
m,p-Xylene	ND		10.0	9.01		ug/L		90	70 - 133
Methylene Chloride	ND		10.0	8.97		ug/L		90	52 - 130
Methyl tert-butyl ether	ND		10.0	9.74		ug/L		97	70 - 130
Naphthalene	ND		10.0	9.29		ug/L		93	60 - 140
o-Xylene	ND		10.0	9.38		ug/L		94	70 - 133
Styrene	ND		10.0	9.99		ug/L		100	29 - 150
t-Butanol	ND		100	83.7		ug/L		84	70 - 130
Tetrachloroethene	ND		10.0	9.50		ug/L		95	70 - 137
Toluene	ND		10.0	8.83		ug/L		88	70 - 130
trans-1,2-Dichloroethene	ND		10.0	8.90		ug/L		89	70 - 130
trans-1,3-Dichloropropene	ND		10.0	9.19		ug/L		92	70 - 138
Trichloroethene	ND		10.0	8.92		ug/L		89	70 - 130

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

Lab Sample ID: 440-261176-4 MS
Matrix: Water
Analysis Batch: 596133

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		10.0	9.27		ug/L		93	60 - 150
Vinyl acetate	ND		10.0	12.1		ug/L		121	23 - 150
Vinyl chloride	ND		10.0	7.67		ug/L		77	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	9.61		ug/L		96	70 - 131
2-Butanone (MEK)	ND		50.0	44.1		ug/L		88	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	49.1		ug/L		98	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*

Lab Sample ID: 440-261176-4 MSD
Matrix: Water
Analysis Batch: 596133

Client Sample ID: MW-2A
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	10.8		ug/L		108	60 - 130	10	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	60 - 149	8	20
1,1,1-Trichloroethane	ND		10.0	10.9		ug/L		109	70 - 130	9	20
1,1,2,2-Tetrachloroethane	ND		10.0	11.8		ug/L		118	63 - 130	4	30
1,1,2-Trichloroethane	ND		10.0	9.95		ug/L		100	70 - 130	9	25
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	65 - 130	7	20
1,1-Dichloroethene	ND		10.0	10.2		ug/L		102	70 - 130	13	20
1,1-Dichloropropene	ND		10.0	9.89		ug/L		99	64 - 130	9	20
1,2,4-Trichlorobenzene	ND		10.0	10.7		ug/L		107	60 - 140	18	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.1		ug/L		111	48 - 140	8	30
1,2-Dichlorobenzene	ND		10.0	9.94		ug/L		99	70 - 130	8	20
1,2-Dichloroethane	ND		10.0	10.7		ug/L		107	56 - 146	6	20
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130	7	20
1,3-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130	7	20
1,3-Dichloropropane	ND		10.0	9.39		ug/L		94	70 - 130	4	25
1,4-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130	8	20
2,2-Dichloropropane	ND		10.0	11.5		ug/L		115	69 - 138	13	25
2-Hexanone	ND		50.0	57.3		ug/L		115	10 - 150	12	35
Acetone	ND	F2	50.0	51.8	F2	ug/L		104	10 - 150	43	35
Benzene	ND		10.0	9.94		ug/L		99	66 - 130	7	20
Bromoform	ND		10.0	10.9		ug/L		109	59 - 150	8	25
Bromomethane	ND		10.0	9.30		ug/L		93	62 - 131	8	25
Carbon disulfide	ND		10.0	9.87		ug/L		99	49 - 140	9	20
Carbon tetrachloride	ND		10.0	11.5		ug/L		115	60 - 150	12	25
Chlorobenzene	ND		10.0	9.74		ug/L		97	70 - 130	7	20
Bromochloromethane	ND		10.0	10.9		ug/L		109	70 - 130	5	25
Chloroethane	ND		10.0	9.32		ug/L		93	68 - 130	9	25
Chloroform	ND		10.0	10.9		ug/L		109	70 - 130	9	20
Chloromethane	ND		10.0	8.81		ug/L		88	39 - 144	10	25
cis-1,2-Dichloroethene	ND		10.0	9.81		ug/L		98	70 - 130	7	20
cis-1,3-Dichloropropene	ND		10.0	9.71		ug/L		97	70 - 133	5	20

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

Lab Sample ID: 440-261176-4 MSD
Matrix: Water
Analysis Batch: 596133

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	ND		10.0	10.6		ug/L		106	70 - 148	9	25
Dibromomethane	ND		10.0	10.6		ug/L		106	70 - 130	11	25
Bromodichloromethane	ND		10.0	10.9		ug/L		109	70 - 138	9	20
Dichlorodifluoromethane	ND		10.0	7.88		ug/L		79	25 - 142	15	30
Ethylbenzene	ND		10.0	9.58		ug/L		96	70 - 130	8	20
m,p-Xylene	ND		10.0	9.97		ug/L		100	70 - 133	10	25
Methylene Chloride	ND		10.0	9.80		ug/L		98	52 - 130	9	20
Methyl tert-butyl ether	ND		10.0	10.7		ug/L		107	70 - 130	9	25
Naphthalene	ND		10.0	10.4		ug/L		104	60 - 140	11	30
o-Xylene	ND		10.0	9.92		ug/L		99	70 - 133	6	20
Styrene	ND		10.0	10.7		ug/L		107	29 - 150	6	35
t-Butanol	ND		100	94.7		ug/L		95	70 - 130	12	25
Tetrachloroethene	ND		10.0	10.9		ug/L		109	70 - 137	14	20
Toluene	ND		10.0	9.39		ug/L		94	70 - 130	6	20
trans-1,2-Dichloroethene	ND		10.0	10.2		ug/L		102	70 - 130	13	20
trans-1,3-Dichloropropene	ND		10.0	9.87		ug/L		99	70 - 138	7	25
Trichloroethene	ND		10.0	9.55		ug/L		96	70 - 130	7	20
Trichlorofluoromethane	ND		10.0	10.4		ug/L		104	60 - 150	12	25
Vinyl acetate	ND		10.0	12.9		ug/L		129	23 - 150	6	30
Vinyl chloride	ND		10.0	8.66		ug/L		87	50 - 137	12	30
1,2-Dibromoethane (EDB)	ND		10.0	10.5		ug/L		105	70 - 131	9	25
2-Butanone (MEK)	ND		50.0	54.6		ug/L		109	48 - 140	21	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.9		ug/L		112	52 - 150	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*76 - 132*

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

Lab Sample ID: MB 440-596153/1-A
Matrix: Water
Analysis Batch: 596432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		02/19/20 07:16	02/20/20 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*74*		*30 - 120*	*02/19/20 07:16*	*02/20/20 11:53*	*1*

Lab Sample ID: LCS 440-596153/2-A
Matrix: Water
Analysis Batch: 596432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596153

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.45		ug/L		73	35 - 120		

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

Lab Sample ID: LCS 440-596153/2-A
Matrix: Water
Analysis Batch: 596432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596153

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*75*		*30 - 120*

Lab Sample ID: LCSD 440-596153/3-A
Matrix: Water
Analysis Batch: 596432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 596153

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			2.00	1.54		ug/L		77	35 - 120	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*74*		*30 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-595960/6
Matrix: Water
Analysis Batch: 595960

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			02/18/20 11:57	1

Lab Sample ID: LCS 440-595960/5
Matrix: Water
Analysis Batch: 595960

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	5.00		mg/L		100	90 - 110		

Lab Sample ID: 440-261176-4 MS
Matrix: Water
Analysis Batch: 595960

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	25	J	500	518		mg/L		98	80 - 120		

Lab Sample ID: 440-261176-4 MSD
Matrix: Water
Analysis Batch: 595960

Client Sample ID: MW-2A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25	J	500	511		mg/L		97	80 - 120	1	20

Lab Sample ID: MB 440-596180/6
Matrix: Water
Analysis Batch: 596180

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			02/19/20 12:20	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-596180/5
Matrix: Water
Analysis Batch: 596180

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	4.68		mg/L		94	90 - 110		

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 440-261176-13 MS
Matrix: Water
Analysis Batch: 596180

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride - DL	21	J	250	253		mg/L		93	80 - 120		

Lab Sample ID: 440-261176-13 MSD
Matrix: Water
Analysis Batch: 596180

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL	21	J	250	251		mg/L		92	80 - 120	1	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-596250/1-A
Matrix: Water
Analysis Batch: 597229

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 596250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		02/19/20 09:44	02/25/20 14:56	1

Lab Sample ID: LCS 440-596250/2-A
Matrix: Water
Analysis Batch: 597229

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 596250

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			20.0	20.1		mg/L		100	80 - 120		

Lab Sample ID: 440-261176-1 MS
Matrix: Water
Analysis Batch: 596772

Client Sample ID: DW-1
Prep Type: Total Recoverable
Prep Batch: 596250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	2.4		20.0	24.3		mg/L		110	75 - 125		

Lab Sample ID: 440-261176-1 MSD
Matrix: Water
Analysis Batch: 596772

Client Sample ID: DW-1
Prep Type: Total Recoverable
Prep Batch: 596250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	2.4		20.0	23.6		mg/L		106	75 - 125	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-596738/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			02/21/20 13:56	1

Lab Sample ID: LCS 440-596738/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.77		mg/L		95	90 - 110

Lab Sample ID: MRL 440-596738/9 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596738

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.168	J	mg/L		84	50 - 150

Lab Sample ID: 440-261157-A-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	6.1	F1	5.00	11.5		mg/L		108	90 - 110

Lab Sample ID: 440-261157-A-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	6.1	F1	5.00	11.7	F1	mg/L		112	90 - 110	2	15

Method: 410.4 - COD

Lab Sample ID: MB 440-597209/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:51	1

Lab Sample ID: LCS 440-597209/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	199		mg/L		100	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 440-261176-1 MS — **Client Sample ID: DW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		200	177		mg/L		88	70 - 120		

Lab Sample ID: 440-261176-1 MSD — **Client Sample ID: DW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		200	182		mg/L		91	70 - 120	3	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-596330/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596330

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			02/19/20 06:00	1

Lab Sample ID: LCS 440-596330/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596330

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			75.8	75.4		mg/L		100	80 - 120		

Lab Sample ID: 440-261138-C-8 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596330

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	160			160		mg/L				0.2	20

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

Lab Sample ID: MB 440-596924/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			02/24/20 09:36	1

Lab Sample ID: LCS 440-596924/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596924

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	984		mg/L		98	90 - 110		

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

Lab Sample ID: 440-261176-1 DU — **Client Sample ID: DW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 596924

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	3200			3110		mg/L				3	5

Method: SM 5310C - TOC

Lab Sample ID: MB 440-597055/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			02/24/20 05:27	1

Lab Sample ID: LCS 440-597055/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			5.00	4.88		mg/L		98	85 - 115		

Lab Sample ID: MRL 440-597055/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			0.100	0.0900	J	mg/L		90	50 - 150		

Lab Sample ID: 440-261219-J-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.7		5.00	7.43		mg/L		114	85 - 115		

Lab Sample ID: 440-261219-J-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.7		5.00	7.32		mg/L		112	85 - 115	1	20

Lab Sample ID: MB 440-597304/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			02/25/20 05:25	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 440-597304/7
Matrix: Water
Analysis Batch: 597304

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	5.00		mg/L		100	85 - 115		

Lab Sample ID: MRL 440-597304/6
Matrix: Water
Analysis Batch: 597304

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	0.0903	J	mg/L		90	50 - 150		

Lab Sample ID: 440-261176-10 MS
Matrix: Water
Analysis Batch: 597304

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		
Total Organic Carbon	1.9		5.00	7.09		mg/L		104	85 - 115		

Lab Sample ID: 440-261176-10 MSD
Matrix: Water
Analysis Batch: 597304

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
Total Organic Carbon	1.9		5.00	7.19		mg/L		106	85 - 115	1	20

QC Association Summary

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

Job ID: 440-261176-1

GC/MS VOA

Analysis Batch: 596130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	8260B	
440-261176-1 - RA	DW-1	Total/NA	Water	8260B	
440-261176-2	Extraction Trench	Total/NA	Water	8260B	
440-261176-2 - RA	Extraction Trench	Total/NA	Water	8260B	
440-261176-3	Sub Drain (N)	Total/NA	Water	8260B	
440-261176-3 - RA	Sub Drain (N)	Total/NA	Water	8260B	
440-261176-4	MW-2A	Total/NA	Water	8260B	
440-261176-4 - RA	MW-2A	Total/NA	Water	8260B	
440-261176-5 - RA	MW-2B	Total/NA	Water	8260B	
440-261176-5	MW-2B	Total/NA	Water	8260B	
440-261176-6 - RA	MW-5	Total/NA	Water	8260B	
440-261176-6	MW-5	Total/NA	Water	8260B	
440-261176-7	MW-1	Total/NA	Water	8260B	
440-261176-7 - RA	MW-1	Total/NA	Water	8260B	
440-261176-8 - RA	MW-9	Total/NA	Water	8260B	
440-261176-8	MW-9	Total/NA	Water	8260B	
440-261176-9	MW-13R	Total/NA	Water	8260B	
440-261176-9 - RA	MW-13R	Total/NA	Water	8260B	
440-261176-10	DW-4	Total/NA	Water	8260B	
440-261176-10 - RA	DW-4	Total/NA	Water	8260B	
440-261176-11 - RA	Field Blank	Total/NA	Water	8260B	
440-261176-11	Field Blank	Total/NA	Water	8260B	
440-261176-12	Trip Blank	Total/NA	Water	8260B	
440-261176-12 - RA	Trip Blank	Total/NA	Water	8260B	
440-261176-13 - RA	DW-5	Total/NA	Water	8260B	
440-261176-13	DW-5	Total/NA	Water	8260B	
MB 440-596130/4	Method Blank	Total/NA	Water	8260B	
LCS 440-596130/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261176-5 MS	MW-2B	Total/NA	Water	8260B	
440-261176-5 MSD	MW-2B	Total/NA	Water	8260B	

Analysis Batch: 596133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	8260B	
440-261176-2	Extraction Trench	Total/NA	Water	8260B	
440-261176-3	Sub Drain (N)	Total/NA	Water	8260B	
440-261176-4	MW-2A	Total/NA	Water	8260B	
440-261176-5	MW-2B	Total/NA	Water	8260B	
440-261176-6	MW-5	Total/NA	Water	8260B	
440-261176-7	MW-1	Total/NA	Water	8260B	
440-261176-8	MW-9	Total/NA	Water	8260B	
440-261176-9	MW-13R	Total/NA	Water	8260B	
440-261176-10	DW-4	Total/NA	Water	8260B	
440-261176-11	Field Blank	Total/NA	Water	8260B	
440-261176-12	Trip Blank	Total/NA	Water	8260B	
440-261176-13	DW-5	Total/NA	Water	8260B	
MB 440-596133/4	Method Blank	Total/NA	Water	8260B	
LCS 440-596133/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261176-4 MS	MW-2A	Total/NA	Water	8260B	
440-261176-4 MSD	MW-2A	Total/NA	Water	8260B	

QC Association Summary

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

Job ID: 440-261176-1

GC/MS Semi VOA

Prep Batch: 596153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	3520C	
440-261176-2	Extraction Trench	Total/NA	Water	3520C	
440-261176-3	Sub Drain (N)	Total/NA	Water	3520C	
440-261176-4	MW-2A	Total/NA	Water	3520C	
440-261176-5	MW-2B	Total/NA	Water	3520C	
440-261176-6	MW-5	Total/NA	Water	3520C	
440-261176-7	MW-1	Total/NA	Water	3520C	
440-261176-8	MW-9	Total/NA	Water	3520C	
440-261176-9	MW-13R	Total/NA	Water	3520C	
440-261176-10	DW-4	Total/NA	Water	3520C	
440-261176-13	DW-5	Total/NA	Water	3520C	
MB 440-596153/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-596153/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-596153/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 596432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	8270C	596153
440-261176-2	Extraction Trench	Total/NA	Water	8270C	596153
440-261176-3	Sub Drain (N)	Total/NA	Water	8270C	596153
440-261176-4	MW-2A	Total/NA	Water	8270C	596153
440-261176-5	MW-2B	Total/NA	Water	8270C	596153
440-261176-6	MW-5	Total/NA	Water	8270C	596153
440-261176-7	MW-1	Total/NA	Water	8270C	596153
440-261176-8	MW-9	Total/NA	Water	8270C	596153
440-261176-9	MW-13R	Total/NA	Water	8270C	596153
440-261176-10	DW-4	Total/NA	Water	8270C	596153
440-261176-13	DW-5	Total/NA	Water	8270C	596153
MB 440-596153/1-A	Method Blank	Total/NA	Water	8270C	596153
LCS 440-596153/2-A	Lab Control Sample	Total/NA	Water	8270C	596153
LCSD 440-596153/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	596153

HPLC/IC

Analysis Batch: 595960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-2	Extraction Trench	Total/NA	Water	300.0	
440-261176-3	Sub Drain (N)	Total/NA	Water	300.0	
440-261176-4	MW-2A	Total/NA	Water	300.0	
MB 440-595960/6	Method Blank	Total/NA	Water	300.0	
LCS 440-595960/5	Lab Control Sample	Total/NA	Water	300.0	
440-261176-4 MS	MW-2A	Total/NA	Water	300.0	
440-261176-4 MSD	MW-2A	Total/NA	Water	300.0	

Analysis Batch: 596180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	300.0	
440-261176-4	MW-2A	Total/NA	Water	300.0	
440-261176-5	MW-2B	Total/NA	Water	300.0	
440-261176-6	MW-5	Total/NA	Water	300.0	
440-261176-7	MW-1	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 596180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-8	MW-9	Total/NA	Water	300.0	
440-261176-9	MW-13R	Total/NA	Water	300.0	
440-261176-10	DW-4	Total/NA	Water	300.0	
440-261176-13 - DL	DW-5	Total/NA	Water	300.0	
440-261176-13	DW-5	Total/NA	Water	300.0	
MB 440-596180/6	Method Blank	Total/NA	Water	300.0	
LCS 440-596180/5	Lab Control Sample	Total/NA	Water	300.0	
440-261176-13 MS - DL	DW-5	Total/NA	Water	300.0	
440-261176-13 MSD - DL	DW-5	Total/NA	Water	300.0	

Metals

Prep Batch: 596250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total Recoverable	Water	3005A	
440-261176-2	Extraction Trench	Total Recoverable	Water	3005A	
440-261176-3	Sub Drain (N)	Total Recoverable	Water	3005A	
440-261176-4	MW-2A	Total Recoverable	Water	3005A	
440-261176-5	MW-2B	Total Recoverable	Water	3005A	
440-261176-6	MW-5	Total Recoverable	Water	3005A	
440-261176-7	MW-1	Total Recoverable	Water	3005A	
440-261176-8	MW-9	Total Recoverable	Water	3005A	
440-261176-9	MW-13R	Total Recoverable	Water	3005A	
440-261176-10	DW-4	Total Recoverable	Water	3005A	
440-261176-13	DW-5	Total Recoverable	Water	3005A	
MB 440-596250/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-596250/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-261176-1 MS	DW-1	Total Recoverable	Water	3005A	
440-261176-1 MSD	DW-1	Total Recoverable	Water	3005A	

Analysis Batch: 596772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-2	Extraction Trench	Total Recoverable	Water	6010B	596250
440-261176-6	MW-5	Total Recoverable	Water	6010B	596250
440-261176-7	MW-1	Total Recoverable	Water	6010B	596250
440-261176-8	MW-9	Total Recoverable	Water	6010B	596250
440-261176-9	MW-13R	Total Recoverable	Water	6010B	596250
440-261176-1 MS	DW-1	Total Recoverable	Water	6010B	596250
440-261176-1 MSD	DW-1	Total Recoverable	Water	6010B	596250

Analysis Batch: 597197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-3	Sub Drain (N)	Total Recoverable	Water	6010B	596250

Analysis Batch: 597229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total Recoverable	Water	6010B	596250
440-261176-4	MW-2A	Total Recoverable	Water	6010B	596250
440-261176-5	MW-2B	Total Recoverable	Water	6010B	596250
440-261176-10	DW-4	Total Recoverable	Water	6010B	596250
440-261176-13	DW-5	Total Recoverable	Water	6010B	596250

Metals (Continued)

Analysis Batch: 597229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-596250/1-A	Method Blank	Total Recoverable	Water	6010B	596250
LCS 440-596250/2-A	Lab Control Sample	Total Recoverable	Water	6010B	596250

General Chemistry

Analysis Batch: 596330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	SM 2320B	
440-261176-2	Extraction Trench	Total/NA	Water	SM 2320B	
440-261176-3	Sub Drain (N)	Total/NA	Water	SM 2320B	
440-261176-4	MW-2A	Total/NA	Water	SM 2320B	
440-261176-5	MW-2B	Total/NA	Water	SM 2320B	
440-261176-6	MW-5	Total/NA	Water	SM 2320B	
440-261176-7	MW-1	Total/NA	Water	SM 2320B	
440-261176-8	MW-9	Total/NA	Water	SM 2320B	
440-261176-9	MW-13R	Total/NA	Water	SM 2320B	
440-261176-10	DW-4	Total/NA	Water	SM 2320B	
440-261176-13	DW-5	Total/NA	Water	SM 2320B	
MB 440-596330/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-596330/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-261138-C-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 596738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	350.1	
440-261176-2	Extraction Trench	Total/NA	Water	350.1	
440-261176-3	Sub Drain (N)	Total/NA	Water	350.1	
440-261176-4	MW-2A	Total/NA	Water	350.1	
440-261176-5	MW-2B	Total/NA	Water	350.1	
440-261176-6	MW-5	Total/NA	Water	350.1	
440-261176-7	MW-1	Total/NA	Water	350.1	
440-261176-8	MW-9	Total/NA	Water	350.1	
440-261176-9	MW-13R	Total/NA	Water	350.1	
440-261176-10	DW-4	Total/NA	Water	350.1	
440-261176-13	DW-5	Total/NA	Water	350.1	
MB 440-596738/10	Method Blank	Total/NA	Water	350.1	
LCS 440-596738/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-596738/9	Lab Control Sample	Total/NA	Water	350.1	
440-261157-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
440-261157-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 596924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	SM 2540C	
440-261176-2	Extraction Trench	Total/NA	Water	SM 2540C	
440-261176-3	Sub Drain (N)	Total/NA	Water	SM 2540C	
440-261176-4	MW-2A	Total/NA	Water	SM 2540C	
440-261176-5	MW-2B	Total/NA	Water	SM 2540C	
440-261176-6	MW-5	Total/NA	Water	SM 2540C	
440-261176-7	MW-1	Total/NA	Water	SM 2540C	
440-261176-8	MW-9	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 596924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-9	MW-13R	Total/NA	Water	SM 2540C	
440-261176-10	DW-4	Total/NA	Water	SM 2540C	
440-261176-13	DW-5	Total/NA	Water	SM 2540C	
MB 440-596924/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-596924/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-261176-1 DU	DW-1	Total/NA	Water	SM 2540C	

Analysis Batch: 597055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	SM 5310C	
440-261176-4	MW-2A	Total/NA	Water	SM 5310C	
440-261176-5	MW-2B	Total/NA	Water	SM 5310C	
440-261176-7	MW-1	Total/NA	Water	SM 5310C	
440-261176-13	DW-5	Total/NA	Water	SM 5310C	
MB 440-597055/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-597055/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-597055/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-261219-J-1 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-261219-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

Analysis Batch: 597209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-1	DW-1	Total/NA	Water	410.4	
440-261176-2	Extraction Trench	Total/NA	Water	410.4	
440-261176-3	Sub Drain (N)	Total/NA	Water	410.4	
440-261176-4	MW-2A	Total/NA	Water	410.4	
440-261176-5	MW-2B	Total/NA	Water	410.4	
440-261176-6	MW-5	Total/NA	Water	410.4	
440-261176-7	MW-1	Total/NA	Water	410.4	
440-261176-8	MW-9	Total/NA	Water	410.4	
440-261176-9	MW-13R	Total/NA	Water	410.4	
440-261176-10	DW-4	Total/NA	Water	410.4	
440-261176-13	DW-5	Total/NA	Water	410.4	
MB 440-597209/3	Method Blank	Total/NA	Water	410.4	
LCS 440-597209/4	Lab Control Sample	Total/NA	Water	410.4	
440-261176-1 MS	DW-1	Total/NA	Water	410.4	
440-261176-1 MSD	DW-1	Total/NA	Water	410.4	

Analysis Batch: 597304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261176-2	Extraction Trench	Total/NA	Water	SM 5310C	
440-261176-3	Sub Drain (N)	Total/NA	Water	SM 5310C	
440-261176-6	MW-5	Total/NA	Water	SM 5310C	
440-261176-8	MW-9	Total/NA	Water	SM 5310C	
440-261176-9	MW-13R	Total/NA	Water	SM 5310C	
440-261176-10	DW-4	Total/NA	Water	SM 5310C	
MB 440-597304/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-597304/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-597304/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-261176-10 MS	DW-4	Total/NA	Water	SM 5310C	
440-261176-10 MSD	DW-4	Total/NA	Water	SM 5310C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

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

Job ID: 440-261176-1

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	06-30-20
Arizona	State	AZ0671	10-14-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-7	07-31-20
Oregon	NELAP	4028 - 007	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record

390223

eurofins | Environment Testing TestAmerica

Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchaus	Site Contact: J. Mills	Date: 2-18-20	COC No.
Company Name: GLA / Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tomova	Carrier: T/A	1 of 2 COCs
Address: 11415 W. Bernardo Dr	Analysis Turnaround Time			Sampler: BS, NR, 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	☐ 1 week			
Site: Sunshine Cyn. Landfill	☐ 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)	EPA 8260B-VOCs	8270 1,4-Dioxane	Total Alkalinity (310.1)	Ammonia (350.1)	COD (EPA 410.4)	Chloride (300.0)	Total Potassium (6010B)	TDS (160.1)	TOC (EPA 415.1)	Sample Specific Notes
DW-1	2/18/20	1140	G	GW	12			X	X	X	X	X	X	X	X	X	
Extraction Trench	↓	0818	↓	W	12			X	X	X	X	X	X	X	X	X	
Subdrain (N)	↓	1225	↓	W	12			X	X	X	X	X	X	X	X	X	
MW-2A	↓	0853	↓	GW	12			X	X	X	X	X	X	X	X	X	
MW-2B	↓	0944	↓	↓	12			X	X	X	X	X	X	X	X	X	
MW-5	↓	0820	↓	↓	12			X	X	X	X	X	X	X	X	X	
MW-1	↓	0950	↓	↓	12			X	X	X	X	X	X	X	X	X	
MW-9	↓	1249	↓	↓	12			X	X	X	X	X	X	X	X	X	2/18/2020
MW-13R	↓	1333	↓	↓	12			X	X	X	X	X	X	X	X	X	
DW-4	↓	1025	↓	↓	12			X	X	X	X	X	X	X	X	X	
Field Blank	↓	—	↓	LAB H2O	4			X									
Trip Blank	2/18/20	—	↓	H2O	4			X									

440-261176 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 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	2-18-20 1405	[signature] DCS	DCS	2-18-20 1405
[signature]	DCS	2-18-1600	[signature]	DCS	2-18-20 1600
			Received in Laboratory by: [signature]	Company: EC IRV	Date/Time: 2/18/20 1600

2.0/2.0; 1.8/1.8, 2.8/2.8, 3.4/3.4 IR-93

2/18/2020

Chain of Custody Record 390431

eurofins | Environment Testing TestAmerica

Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchamp	Site Contact: J. Mills	Date:	COC No:
Company Name: GLA / Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tamaya	Carrier: T/A	2 of 2 COCs
Address: 11415 W. Bernardo Ct.	Analysis Turnaround Time			Sampler: RS, NR, 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	☐ 1 week			
Site: Sunshine Cyn. Lemon/Hill	☐ 2 days			Job / SDG No:
PO #	☐ 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)	EPA-8260B VOC	8270 1,4-Dioxane	Alkalinity 310.1	Ammonia as N 350.1	COD 410.4	Chloride 300.0	Potassium 6010B	TDS 160.1	TSS 160.2	Sample Specific Notes:
DW-5	2/18/20	1127	G	GW	12			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

☒ 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	2-18-20 1405	[signature]	dcs	2-18-20 14-05
[signature]	dcs	218 1605	[signature]	dcs	~~2-18-20 16~~
	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	EC IPV	2/18/20 1600

2/18/2020

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-261176-1

Login Number: 261176
List Number: 1
Creator: Soderblom, Tim

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	

ANALYTICAL REPORT

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

Laboratory Job ID: 440-261219-1
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:
2/28/2020 3:16:57 PM

Rossina Tomova, Project Manager I
(949)260-3276
rossina.tomova@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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: 440-261219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-261219-1	DW-2	Water	02/19/20 08:10	02/19/20 12:30	
440-261219-2	DW-3	Water	02/19/20 09:40	02/19/20 12:30	
440-261219-3	PZ-4	Water	02/19/20 08:45	02/19/20 12:30	
440-261219-4	CM-9R3	Water	02/19/20 10:43	02/19/20 12:30	
440-261219-5	Field Blank	Water	02/19/20 00:01	02/19/20 12:30	
440-261219-6	Trip Blank	Water	02/19/20 00:01	02/19/20 12:30	
440-261219-7	LY-7	Water	02/19/20 09:35	02/19/20 12:30	

Job ID: 440-261219-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-261219-1

Comments
No additional comments.

Receipt
The samples were received on 2/19/2020 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.0º C and 3.9º C.

Receipt Exceptions
The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): LY-7 (440-261219-7). Revised COC received via email.

The sample was logged in per containers' labels, no test codes were assigned.

GC/MS VOA
No analytical or quality issues were noted, other than those described 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 continuing calibration blank (CCB) for 440-596771 contained Potassium above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL).(CCB 440-596771/41)

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
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-596377. LCS was performed in duplicate to provide precision of data.

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 Sample Results

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

Job ID: 440-261219-1

Client Sample ID: DW-2

Date Collected: 02/19/20 08:10
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-1

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	0.40	ug/L			02/20/20 08:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Acrolein	ND		50	2.5	ug/L			02/20/20 08:18	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 08:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 08:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 08:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 08:02	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 08:02	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 08:02	1
Acetone	ND		20	10	ug/L			02/20/20 08:02	1
Acetonitrile	ND		20	10	ug/L			02/20/20 08:02	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 08:02	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 08:02	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 08:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 08:02	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 08:02	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 08:02	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 08:02	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 08:02	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 08:02	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 08:02	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 08:02	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: DW-2

Date Collected: 02/19/20 08:10
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-1

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	0.40	ug/L			02/20/20 08:02	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Propionitrile	ND		20	10	ug/L			02/20/20 08:02	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 08:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 08:02	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 08:02	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 08:02	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 08:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 08:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 08:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 08:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 08:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*14*	*T J*	*ug/L*		*2.88*			*02/20/20 08:18*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/20/20 08:18*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 08:02*	*1*
Unknown	*28*	*T J*	*ug/L*		*14.89*			*02/20/20 08:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/20/20 08:18*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/20/20 08:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 08:02*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/20/20 08:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/20/20 08:02*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*02/20/20 08:18*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/20/20 08:18*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/20/20 08:02*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*02/20/20 08:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.97	0.24	ug/L		02/20/20 08:28	02/24/20 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*51*		*30 - 120*	*02/20/20 08:28*	*02/24/20 12:20*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		0.50	0.25	mg/L			02/20/20 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.0**		1.0	0.50	mg/L		02/20/20 10:03	02/21/20 11:48	2

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: DW-2

Lab Sample ID: 440-261219-1
Date Collected: 02/19/20 08:10
Matrix: Water
Date Received: 02/19/20 12:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.4**		0.20	0.10	mg/L			02/25/20 12:13	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:53	1
Total Dissolved Solids	**1900**		20	10	mg/L			02/26/20 09:11	1
Total Organic Carbon	**1.7**		0.10	0.050	mg/L			02/24/20 07:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**360**		4.0	4.0	mg/L			02/20/20 05:10	1

Client Sample ID: DW-3

Lab Sample ID: 440-261219-2
Date Collected: 02/19/20 09:40
Matrix: Water
Date Received: 02/19/20 12:30

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	0.40	ug/L			02/20/20 08:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Acrolein	ND		50	2.5	ug/L			02/20/20 08:47	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 08:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 08:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 08:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 08:25	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 08:25	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 08:25	1
Acetone	ND		20	10	ug/L			02/20/20 08:25	1
Acetonitrile	ND		20	10	ug/L			02/20/20 08:25	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 08:25	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 08:25	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 08:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 08:25	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: DW-3

Lab Sample ID: 440-261219-2

Date Collected: 02/19/20 09:40
Date Received: 02/19/20 12:30

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	0.25	ug/L			02/20/20 08:25	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 08:25	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 08:25	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 08:25	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 08:25	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 08:25	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 08:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 08:25	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Propionitrile	ND		20	10	ug/L			02/20/20 08:25	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 08:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 08:25	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 08:25	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 08:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 08:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 08:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 08:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 08:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 08:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*28*	*T J*	*ug/L*		*2.64*			*02/20/20 08:47*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.52*			*02/20/20 08:47*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 08:25*	*1*
Unknown	*26*	*T J*	*ug/L*		*16.41*			*02/20/20 08:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/20/20 08:47*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 08:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 08:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/20/20 08:47*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/20/20 08:25*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 08:47*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/20/20 08:47*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/20/20 08:25*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/20/20 08:47*	*1*

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: DW-3

Lab Sample ID: 440-261219-2
Date Collected: 02/19/20 09:40
Matrix: Water
Date Received: 02/19/20 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.25	ug/L		02/20/20 08:28	02/24/20 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*51*		*30 - 120*	*02/20/20 08:28*	*02/24/20 12:41*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15**		0.50	0.25	mg/L			02/20/20 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**8.8**		0.50	0.25	mg/L		02/20/20 10:03	02/21/20 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.62**		0.20	0.10	mg/L			02/25/20 12:34	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:53	1
Total Dissolved Solids	**1800**		10	5.0	mg/L			02/26/20 09:11	1
Total Organic Carbon	**0.52**		0.10	0.050	mg/L			02/24/20 07:32	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**150**		4.0	4.0	mg/L			02/20/20 05:18	1

Client Sample ID: PZ-4

Lab Sample ID: 440-261219-3
Date Collected: 02/19/20 08:45
Matrix: Water
Date Received: 02/19/20 12:30

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	0.40	ug/L			02/20/20 08:49	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Acrolein	ND		50	2.5	ug/L			02/20/20 09:15	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 09:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 08:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 08:49	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 08:49	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 08:49	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 08:49	1
Acetone	ND		20	10	ug/L			02/20/20 08:49	1
Acetonitrile	ND		20	10	ug/L			02/20/20 08:49	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: PZ-4

Date Collected: 02/19/20 08:45
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 08:49	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 08:49	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 08:49	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 08:49	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 08:49	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:49	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 08:49	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 08:49	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 08:49	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 08:49	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 08:49	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 08:49	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 08:49	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Propionitrile	ND		20	10	ug/L			02/20/20 08:49	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 08:49	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 08:49	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 08:49	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 08:49	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 08:49	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 08:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 08:49	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 08:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 08:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*21*	*T J*	*ug/L*		*2.53*			*02/20/20 09:15*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/20/20 09:15*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 08:49*	*1*
Unknown	*13*	*T J*	*ug/L*		*14.12*			*02/20/20 09:15*	*1*

Client Sample ID: PZ-4
Date Collected: 02/19/20 08:45
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/20/20 09:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/20/20 09:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*02/20/20 08:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/20/20 09:15*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/20/20 08:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/20/20 09:15*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/20/20 09:15*	*1*
Dibromofluoromethane (Surr)	*110*		*76 - 132*		*02/20/20 08:49*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*02/20/20 09:15*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.25	ug/L		02/20/20 08:28	02/24/20 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*40*		*30 - 120*	*02/20/20 08:28*	*02/24/20 13:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.0**		0.50	0.25	mg/L			02/20/20 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**4.3**		0.50	0.25	mg/L		02/20/20 10:03	02/21/20 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.6**		0.20	0.10	mg/L			02/25/20 12:39	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:54	1
Total Dissolved Solids	**1200**		10	5.0	mg/L			02/26/20 09:11	1
Total Organic Carbon	**1.4**		0.10	0.050	mg/L			02/24/20 07:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**320**		4.0	4.0	mg/L			02/20/20 05:27	1

Client Sample ID: CM-9R3
Date Collected: 02/19/20 10:43
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-4
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	0.40	ug/L			02/20/20 09:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Acrolein	ND		50	2.5	ug/L			02/20/20 09:44	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 09:44	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 09:13	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: CM-9R3

Date Collected: 02/19/20 10:43
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-4

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		1.0	0.50	ug/L			02/20/20 09:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 09:13	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 09:13	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 09:13	1
Acetone	ND		20	10	ug/L			02/20/20 09:13	1
Acetonitrile	ND		20	10	ug/L			02/20/20 09:13	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 09:13	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 09:13	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 09:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 09:13	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 09:13	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 09:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 09:13	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 09:13	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 09:13	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 09:13	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 09:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 09:13	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 09:13	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Propionitrile	ND		20	10	ug/L			02/20/20 09:13	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 09:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Tetrahydrofuran	ND	F1	10	5.0	ug/L			02/20/20 09:13	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 09:13	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 09:13	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: CM-9R3

Date Collected: 02/19/20 10:43
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-4

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	0.25	ug/L			02/20/20 09:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 09:13	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 09:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 09:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 09:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 09:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 09:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*17*	*T J*	*ug/L*		*2.62*			*02/20/20 09:44*	*1*
Unknown	*2.6*	*T J*	*ug/L*		*16.47*			*02/20/20 09:44*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*02/20/20 09:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/20/20 09:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 09:44*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 09:13*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*02/20/20 09:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/20/20 09:13*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 09:44*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/20/20 09:44*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*02/20/20 09:13*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/20/20 09:44*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.97	0.24	ug/L		02/20/20 08:28	02/24/20 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*52*		*30 - 120*	*02/20/20 08:28*	*02/24/20 13:24*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18**		0.50	0.25	mg/L			02/20/20 01:23	1

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		02/20/20 10:03	02/21/20 11:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**8.2**		0.20	0.10	mg/L			02/25/20 12:45	1
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:54	1
Total Dissolved Solids	**4200**		50	25	mg/L			02/26/20 09:11	1
Total Organic Carbon	**5.6**		0.10	0.050	mg/L			02/24/20 08:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**220**		4.0	4.0	mg/L			02/20/20 05:35	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: Field Blank

Lab Sample ID: 440-261219-5

Date Collected: 02/19/20 00:01
Date Received: 02/19/20 12:30

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	0.40	ug/L			02/20/20 11:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Acrolein	ND		50	2.5	ug/L			02/20/20 11:08	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 11:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 11:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 11:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 11:35	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 11:35	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 11:35	1
Acetone	ND		20	10	ug/L			02/20/20 11:35	1
Acetonitrile	ND		20	10	ug/L			02/20/20 11:35	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 11:35	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 11:35	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 11:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 11:35	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 11:35	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 11:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 11:35	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 11:35	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 11:35	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 11:35	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 11:35	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 11:35	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 11:35	1

Client Sample ID: Field Blank

Lab Sample ID: 440-261219-5

Date Collected: 02/19/20 00:01
Matrix: Water
Date Received: 02/19/20 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 11:35	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Propionitrile	ND		20	10	ug/L			02/20/20 11:35	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 11:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 11:35	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 11:35	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 11:35	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 11:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 11:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 11:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 11:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*2.84*			*02/20/20 11:08*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/20/20 11:08*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 11:35*	*1*
Unknown	*3.6*	*T J*	*ug/L*		*16.59*			*02/20/20 11:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/20/20 11:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/20/20 11:08*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*02/20/20 11:08*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/20/20 11:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*02/20/20 11:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/20/20 11:35*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/20/20 11:08*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*02/20/20 11:08*	*1*
Dibromofluoromethane (Surr)	*107*		*76 - 132*		*02/20/20 11:35*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-261219-6

Date Collected: 02/19/20 00:01
Matrix: Water
Date Received: 02/19/20 12:30

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	0.40	ug/L			02/20/20 11:59	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Acrolein	ND		50	2.5	ug/L			02/20/20 11:37	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 11:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261219-6

Date Collected: 02/19/20 00:01
Matrix: Water
Date Received: 02/19/20 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 11:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 11:59	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 11:59	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 11:59	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 11:59	1
Acetone	ND		20	10	ug/L			02/20/20 11:59	1
Acetonitrile	ND		20	10	ug/L			02/20/20 11:59	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 11:59	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 11:59	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 11:59	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 11:59	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 11:59	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 11:59	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 11:59	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 11:59	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 11:59	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 11:59	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 11:59	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 11:59	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 11:59	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Propionitrile	ND		20	10	ug/L			02/20/20 11:59	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 11:59	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 11:59	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 11:59	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-261219-6
Date Collected: 02/19/20 00:01
Matrix: Water
Date Received: 02/19/20 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 11:59	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 11:59	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 11:59	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 11:59	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 11:59	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 11:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 11:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*2.60*			*02/20/20 11:37*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*02/20/20 11:37*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 11:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*02/20/20 11:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 11:37*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*02/20/20 11:37*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*02/20/20 11:59*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 11:37*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/20/20 11:59*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/20/20 11:37*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*02/20/20 11:37*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/20/20 11:59*	*1*

Client Sample ID: LY-7

Lab Sample ID: 440-261219-7
Date Collected: 02/19/20 09:35
Matrix: Water
Date Received: 02/19/20 12:30

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	0.40	ug/L			02/20/20 12:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Acrolein	ND		50	2.5	ug/L			02/20/20 12:05	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 12:05	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 12:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 12:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 12:22	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: LY-7

Date Collected: 02/19/20 09:35
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**0.44**	**J**	0.50	0.25	ug/L			02/20/20 12:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 12:22	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 12:22	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 12:22	1
Acetone	ND		20	10	ug/L			02/20/20 12:22	1
Acetonitrile	ND		20	10	ug/L			02/20/20 12:22	1
Benzene	**1.0**		0.50	0.25	ug/L			02/20/20 12:22	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 12:22	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 12:22	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 12:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 12:22	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
cis-1,2-Dichloroethene	**2.4**		0.50	0.25	ug/L			02/20/20 12:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 12:22	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 12:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 12:22	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 12:22	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 12:22	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 12:22	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 12:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 12:22	1
Methyl tert-butyl ether	**12**		0.50	0.25	ug/L			02/20/20 12:22	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 12:22	1
o-Xylene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Propionitrile	ND		20	10	ug/L			02/20/20 12:22	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
t-Butanol	**380**		10	5.0	ug/L			02/20/20 12:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 12:22	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 12:22	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 12:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 12:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 12:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 12:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 12:22	1

Client Sample Results

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

Job ID: 440-261219-1

Client Sample ID: LY-7

Date Collected: 02/19/20 09:35
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-7

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	2.5	ug/L			02/20/20 12:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.8*	*T J*	*ug/L*		*2.99*			*02/20/20 12:05*	*1*
Silane, fluorotrimethyl-	*83*	*T J N*	*ug/L*		*3.54*	*420-56-4*		*02/20/20 12:22*	*1*
Silanol, trimethyl-	*92*	*T J N*	*ug/L*		*5.03*	*1066-40-6*		*02/20/20 12:05*	*1*
Silanol, trimethyl-	*120*	*T J N*	*ug/L*		*5.78*	*1066-40-6*		*02/20/20 12:22*	*1*
Unknown	*11*	*T J*	*ug/L*		*7.29*			*02/20/20 12:22*	*1*
Unknown	*2.7*	*T J*	*ug/L*		*13.01*			*02/20/20 12:22*	*1*
Unknown	*13*	*T J*	*ug/L*		*14.01*			*02/20/20 12:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/20/20 12:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/20/20 12:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*02/20/20 12:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 12:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*02/20/20 12:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/20/20 12:22*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/20/20 12:05*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*02/20/20 12:05*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*02/20/20 12:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**11**		0.98	0.25	ug/L		02/20/20 08:28	02/24/20 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*43*		*30 - 120*	*02/20/20 08:28*	*02/24/20 13:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**570**		100	50	mg/L			02/20/20 00:20	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**41**		1.0	0.50	mg/L		02/21/20 09:11	02/21/20 16:56	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**19**		1.0	0.50	mg/L			02/25/20 13:10	5
Chemical Oxygen Demand	**140**		20	10	mg/L			02/25/20 13:54	1
Total Dissolved Solids	**3900**		100	50	mg/L			02/26/20 09:11	1
Total Organic Carbon	**48**		0.50	0.25	mg/L			02/24/20 08:35	5

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**2200**		4.0	4.0	mg/L			02/20/20 06:06	1

Method Summary

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

Job ID: 440-261219-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-261219-1

Client Sample ID: DW-2

Date Collected: 02/19/20 08:10
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-1

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	10 mL	10 mL	596343	02/20/20 08:18	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 08:02	TCN	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596377	02/20/20 08:28	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596885	02/24/20 12:20	JS1	TAL IRV
Total/NA	Analysis	300.0		1			596176	02/20/20 00:36	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596412	02/20/20 10:03	EP	TAL IRV
Total Recoverable	Analysis	6010B		2			596695	02/21/20 11:48	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	597259	02/25/20 12:13	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:53	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596347	02/20/20 05:10	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	597375	02/26/20 09:11	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 07:19	YZ	TAL IRV

Client Sample ID: DW-3

Date Collected: 02/19/20 09:40
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-2

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	10 mL	10 mL	596343	02/20/20 08:47	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 08:25	TCN	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	596377	02/20/20 08:28	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596885	02/24/20 12:41	JS1	TAL IRV
Total/NA	Analysis	300.0		50			596176	02/19/20 22:31	NTN	TAL IRV
Total/NA	Analysis	300.0		1			596176	02/20/20 00:52	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596412	02/20/20 10:03	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596695	02/21/20 11:10	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	597259	02/25/20 12:34	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:53	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596347	02/20/20 05:18	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	597375	02/26/20 09:11	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 07:32	YZ	TAL IRV

Client Sample ID: PZ-4

Date Collected: 02/19/20 08:45
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-3

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	10 mL	10 mL	596343	02/20/20 09:15	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 08:49	TCN	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	596377	02/20/20 08:28	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596885	02/24/20 13:03	JS1	TAL IRV
Total/NA	Analysis	300.0		1			596176	02/20/20 01:07	NTN	TAL IRV

Lab Chronicle

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

Job ID: 440-261219-1

Client Sample ID: PZ-4
Date Collected: 02/19/20 08:45
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	596412	02/20/20 10:03	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596695	02/21/20 11:13	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	597259	02/25/20 12:39	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:54	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596347	02/20/20 05:27	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	597375	02/26/20 09:11	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 07:45	YZ	TAL IRV

Client Sample ID: CM-9R3
Date Collected: 02/19/20 10:43
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-4
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	10 mL	10 mL	596343	02/20/20 09:44	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 09:13	TCN	TAL IRV
Total/NA	Prep	3520C			1030 mL	1.0 mL	596377	02/20/20 08:28	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596885	02/24/20 13:24	JS1	TAL IRV
Total/NA	Analysis	300.0		1			596176	02/20/20 01:23	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596412	02/20/20 10:03	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			596695	02/21/20 11:16	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	597259	02/25/20 12:45	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:54	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596347	02/20/20 05:35	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	597375	02/26/20 09:11	XL	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	597055	02/24/20 08:02	YZ	TAL IRV

Client Sample ID: Field Blank
Date Collected: 02/19/20 00:01
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-5
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	10 mL	10 mL	596343	02/20/20 11:08	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 11:35	TCN	TAL IRV

Client Sample ID: Trip Blank
Date Collected: 02/19/20 00:01
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-6
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	10 mL	10 mL	596343	02/20/20 11:37	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 11:59	TCN	TAL IRV

Lab Chronicle

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

Job ID: 440-261219-1

Client Sample ID: LY-7

Date Collected: 02/19/20 09:35
Date Received: 02/19/20 12:30

Lab Sample ID: 440-261219-7

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	10 mL	10 mL	596343	02/20/20 12:05	TCN	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	596345	02/20/20 12:22	TCN	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	596377	02/20/20 08:28	NAM	TAL IRV
Total/NA	Analysis	8270C		1			596885	02/24/20 13:45	JS1	TAL IRV
Total/NA	Analysis	300.0		200			596176	02/20/20 00:20	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	596638	02/21/20 09:11	EP	TAL IRV
Total Recoverable	Analysis	6010B		2			596771	02/21/20 16:56	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	597259	02/25/20 13:10	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	597209	02/25/20 13:54	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			596347	02/20/20 06:06	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	597375	02/26/20 09:11	XL	TAL IRV
Total/NA	Analysis	SM 5310C		5	100 mL	100 mL	597055	02/24/20 08:35	YZ	TAL IRV

Laboratory References:

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

QC Sample Results

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

Job ID: 440-261219-1

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

Lab Sample ID: MB 440-596343/4
Matrix: Water
Analysis Batch: 596343

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			02/20/20 07:50	1
Acrylonitrile	ND		50	1.0	ug/L			02/20/20 07:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 07:50*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/20/20 07:50*	*1*
Dibromofluoromethane (Surr)	*105*		*76 - 132*		*02/20/20 07:50*	*1*

Lab Sample ID: LCS 440-596343/1002
Matrix: Water
Analysis Batch: 596343

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	9.88	13.1	J	ug/L		133	10 - 145
Acrylonitrile	100	136		ug/L		136	48 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*

Lab Sample ID: 440-261219-4 MS
Matrix: Water
Analysis Batch: 596343

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
Acrolein	ND		9.88	10.8	J	ug/L		110	10 - 147
Acrylonitrile	ND		100	129		ug/L		129	38 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*

Lab Sample ID: 440-261219-4 MSD
Matrix: Water
Analysis Batch: 596343

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
Acrolein	ND		9.88	10.7	J	ug/L		109	10 - 147	1	40
Acrylonitrile	ND		100	112		ug/L		112	38 - 144	14	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

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

Lab Sample ID: MB 440-596345/4
Matrix: Water
Analysis Batch: 596345

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	0.40	ug/L			02/20/20 07:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			02/20/20 07:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			02/20/20 07:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			02/20/20 07:38	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			02/20/20 07:38	1
2-Hexanone	ND		5.0	2.5	ug/L			02/20/20 07:38	1
Acetone	ND		20	10	ug/L			02/20/20 07:38	1
Acetonitrile	ND		20	10	ug/L			02/20/20 07:38	1
Benzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Allyl chloride	ND		1.0	0.50	ug/L			02/20/20 07:38	1
Bromoform	ND		1.0	0.40	ug/L			02/20/20 07:38	1
Bromomethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			02/20/20 07:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Bromochloromethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Chloroethane	ND		1.0	0.40	ug/L			02/20/20 07:38	1
Chloroform	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Chloromethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Dibromochloromethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Dibromomethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Bromodichloromethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			02/20/20 07:38	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 07:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Iodomethane	ND		2.0	1.0	ug/L			02/20/20 07:38	1
Isobutyl alcohol	ND		25	13	ug/L			02/20/20 07:38	1
m,p-Xylene	ND		1.0	0.50	ug/L			02/20/20 07:38	1
Methylacrylonitrile	ND		10	2.5	ug/L			02/20/20 07:38	1
Methyl methacrylate	ND		2.0	1.0	ug/L			02/20/20 07:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			02/20/20 07:38	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Naphthalene	ND		1.0	0.40	ug/L			02/20/20 07:38	1

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

Lab Sample ID: MB 440-596345/4
Matrix: Water
Analysis Batch: 596345

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	0.25	ug/L			02/20/20 07:38	1
Propionitrile	ND		20	10	ug/L			02/20/20 07:38	1
Styrene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
t-Butanol	ND		10	5.0	ug/L			02/20/20 07:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Tetrahydrofuran	ND		10	5.0	ug/L			02/20/20 07:38	1
Toluene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			02/20/20 07:38	1
Trichloroethene	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			02/20/20 07:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			02/20/20 07:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			02/20/20 07:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			02/20/20 07:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			02/20/20 07:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			02/20/20 07:38	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/20/20 07:38*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 128*		*02/20/20 07:38*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/20/20 07:38*	*1*
Dibromofluoromethane (Surr)	*108*		*76 - 132*		*02/20/20 07:38*	*1*

Lab Sample ID: LCS 440-596345/1002
Matrix: Water
Analysis Batch: 596345

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	25.0	23.9		ug/L		95	63 - 130
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	60 - 141
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	63 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	23.6		ug/L		94	64 - 130
1,1-Dichloroethene	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		100	52 - 140
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	26.5		ug/L		106	57 - 138
1,2-Dichloropropane	25.0	24.7		ug/L		99	67 - 130
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	21.9		ug/L		88	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		103	68 - 141

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

Lab Sample ID: LCS 440-596345/1002
Matrix: Water
Analysis Batch: 596345

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	124		ug/L		99	10 - 150
Acetone	125	157		ug/L		125	10 - 150
Benzene	25.0	23.8		ug/L		95	68 - 130
Bromoform	25.0	27.4		ug/L		110	60 - 148
Bromomethane	25.0	23.0		ug/L		92	64 - 139
Carbon disulfide	25.0	23.8		ug/L		95	52 - 136
Carbon tetrachloride	25.0	26.6		ug/L		107	60 - 150
Chlorobenzene	25.0	23.4		ug/L		94	70 - 130
Bromochloromethane	25.0	26.1		ug/L		104	70 - 130
Chloroethane	25.0	23.3		ug/L		93	64 - 135
Chloroform	25.0	25.3		ug/L		101	70 - 130
Chloromethane	25.0	21.6		ug/L		86	47 - 140
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	70 - 133
cis-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 133
Dibromochloromethane	25.0	25.7		ug/L		103	69 - 145
Dibromomethane	25.0	26.4		ug/L		106	70 - 130
Bromodichloromethane	25.0	27.0		ug/L		108	70 - 132
Dichlorodifluoromethane	25.0	23.1		ug/L		93	29 - 150
Ethylbenzene	25.0	21.5		ug/L		86	70 - 130
m,p-Xylene	25.0	23.3		ug/L		93	70 - 130
Methylene Chloride	25.0	22.9		ug/L		92	52 - 130
Methyl tert-butyl ether	25.0	25.5		ug/L		102	63 - 131
Naphthalene	25.0	23.7		ug/L		95	60 - 140
o-Xylene	25.0	22.6		ug/L		91	70 - 130
Styrene	25.0	25.1		ug/L		100	70 - 134
t-Butanol	250	323		ug/L		129	70 - 130
Tetrachloroethene	25.0	23.6		ug/L		95	70 - 130
Toluene	25.0	20.9		ug/L		83	70 - 130
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	70 - 130
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 132
Trichloroethene	25.0	24.4		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	24.9		ug/L		99	60 - 150
Vinyl acetate	25.0	31.0		ug/L		124	48 - 140
Vinyl chloride	25.0	20.5		ug/L		82	59 - 133
1,2-Dibromoethane (EDB)	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	132		ug/L		106	44 - 150
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 128*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*

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

Lab Sample ID: 440-261219-4 MS
Matrix: Water
Analysis Batch: 596345

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
1,2,3-Trichloropropane	ND		10.0	9.54		ug/L		95	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	63 - 130
1,1,2-Trichloroethane	ND		10.0	9.59		ug/L		96	70 - 130
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	65 - 130
1,1-Dichloroethene	ND		10.0	9.45		ug/L		94	70 - 130
1,1-Dichloropropene	ND		10.0	9.03		ug/L		90	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.70		ug/L		97	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	9.42		ug/L		94	48 - 140
1,2-Dichlorobenzene	ND		10.0	9.35		ug/L		94	70 - 130
1,2-Dichloroethane	ND		10.0	10.3		ug/L		103	56 - 146
1,2-Dichloropropane	ND		10.0	9.60		ug/L		96	69 - 130
1,3-Dichlorobenzene	ND		10.0	9.61		ug/L		96	70 - 130
1,3-Dichloropropane	ND		10.0	8.94		ug/L		89	70 - 130
1,4-Dichlorobenzene	ND		10.0	9.65		ug/L		96	70 - 130
2,2-Dichloropropane	ND		10.0	10.6		ug/L		106	69 - 138
2-Hexanone	ND		50.0	52.8		ug/L		106	10 - 150
Acetone	ND		50.0	46.0		ug/L		92	10 - 150
Benzene	ND		10.0	9.76		ug/L		98	66 - 130
Bromoform	ND		10.0	10.1		ug/L		101	59 - 150
Bromomethane	ND		10.0	9.02		ug/L		90	62 - 131
Carbon disulfide	ND		10.0	9.64		ug/L		96	49 - 140
Carbon tetrachloride	ND		10.0	10.4		ug/L		104	60 - 150
Chlorobenzene	ND		10.0	9.55		ug/L		95	70 - 130
Bromochloromethane	ND		10.0	10.9		ug/L		109	70 - 130
Chloroethane	ND		10.0	9.45		ug/L		95	68 - 130
Chloroform	ND		10.0	10.6		ug/L		106	70 - 130
Chloromethane	ND		10.0	8.81		ug/L		88	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.42		ug/L		94	70 - 130
cis-1,3-Dichloropropene	ND		10.0	9.00		ug/L		90	70 - 133
Dibromochloromethane	ND		10.0	10.0		ug/L		100	70 - 148
Dibromomethane	ND		10.0	10.1		ug/L		101	70 - 130
Bromodichloromethane	ND		10.0	10.5		ug/L		105	70 - 138
Dichlorodifluoromethane	ND		10.0	8.81		ug/L		88	25 - 142
Ethylbenzene	ND		10.0	9.13		ug/L		91	70 - 130
m,p-Xylene	ND		10.0	9.49		ug/L		95	70 - 133
Methylene Chloride	ND		10.0	9.44		ug/L		94	52 - 130
Methyl tert-butyl ether	ND		10.0	10.3		ug/L		103	70 - 130
Naphthalene	ND		10.0	9.30		ug/L		93	60 - 140
o-Xylene	ND		10.0	9.49		ug/L		95	70 - 133
Styrene	ND		10.0	10.3		ug/L		103	29 - 150
t-Butanol	ND		100	86.5		ug/L		87	70 - 130
Tetrachloroethene	ND		10.0	10.9		ug/L		109	70 - 137
Toluene	ND		10.0	9.07		ug/L		91	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.19		ug/L		92	70 - 130
trans-1,3-Dichloropropene	ND		10.0	9.01		ug/L		90	70 - 138
Trichloroethene	ND		10.0	9.41		ug/L		94	70 - 130

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

Lab Sample ID: 440-261219-4 MS
Matrix: Water
Analysis Batch: 596345

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
Trichlorofluoromethane	ND		10.0	10.1		ug/L		101	60 - 150
Vinyl acetate	ND		10.0	12.1		ug/L		121	23 - 150
Vinyl chloride	ND		10.0	8.47		ug/L		85	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	9.66		ug/L		97	70 - 131
2-Butanone (MEK)	ND		50.0	50.7		ug/L		101	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	51.4		ug/L		103	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*76 - 132*

Lab Sample ID: 440-261219-4 MSD
Matrix: Water
Analysis Batch: 596345

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
1,2,3-Trichloropropane	ND		10.0	10.1		ug/L		101	60 - 130	6	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.4		ug/L		104	60 - 149	1	20
1,1,1-Trichloroethane	ND		10.0	10.4		ug/L		104	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	11.7		ug/L		117	63 - 130	8	30
1,1,2-Trichloroethane	ND		10.0	9.86		ug/L		99	70 - 130	3	25
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	65 - 130	5	20
1,1-Dichloroethene	ND		10.0	9.68		ug/L		97	70 - 130	2	20
1,1-Dichloropropene	ND		10.0	9.53		ug/L		95	64 - 130	5	20
1,2,4-Trichlorobenzene	ND		10.0	9.72		ug/L		97	60 - 140	0	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.8		ug/L		108	48 - 140	13	30
1,2-Dichlorobenzene	ND		10.0	9.68		ug/L		97	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	10.7		ug/L		107	56 - 146	3	20
1,2-Dichloropropane	ND		10.0	9.84		ug/L		98	69 - 130	2	20
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	5	20
1,3-Dichloropropane	ND		10.0	9.27		ug/L		93	70 - 130	4	25
1,4-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130	6	20
2,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 138	3	25
2-Hexanone	ND		50.0	56.6		ug/L		113	10 - 150	7	35
Acetone	ND		50.0	52.5		ug/L		105	10 - 150	13	35
Benzene	ND		10.0	9.76		ug/L		98	66 - 130	0	20
Bromoform	ND		10.0	10.8		ug/L		108	59 - 150	6	25
Bromomethane	ND		10.0	9.45		ug/L		95	62 - 131	5	25
Carbon disulfide	ND		10.0	10.0		ug/L		100	49 - 140	4	20
Carbon tetrachloride	ND		10.0	10.5		ug/L		105	60 - 150	2	25
Chlorobenzene	ND		10.0	9.61		ug/L		96	70 - 130	1	20
Bromochloromethane	ND		10.0	10.8		ug/L		108	70 - 130	1	25
Chloroethane	ND		10.0	9.42		ug/L		94	68 - 130	0	25
Chloroform	ND		10.0	10.6		ug/L		106	70 - 130	1	20
Chloromethane	ND		10.0	9.07		ug/L		91	39 - 144	3	25
cis-1,2-Dichloroethene	ND		10.0	9.48		ug/L		95	70 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	9.37		ug/L		94	70 - 133	4	20

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

Lab Sample ID: 440-261219-4 MSD
Matrix: Water
Analysis Batch: 596345

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
Dibromochloromethane	ND		10.0	10.5		ug/L		105	70 - 148	5	25
Dibromomethane	ND		10.0	10.3		ug/L		103	70 - 130	2	25
Bromodichloromethane	ND		10.0	11.0		ug/L		110	70 - 138	5	20
Dichlorodifluoromethane	ND		10.0	9.27		ug/L		93	25 - 142	5	30
Ethylbenzene	ND		10.0	9.48		ug/L		95	70 - 130	4	20
m,p-Xylene	ND		10.0	9.81		ug/L		98	70 - 133	3	25
Methylene Chloride	ND		10.0	9.38		ug/L		94	52 - 130	1	20
Methyl tert-butyl ether	ND		10.0	10.3		ug/L		103	70 - 130	1	25
Naphthalene	ND		10.0	9.54		ug/L		95	60 - 140	3	30
o-Xylene	ND		10.0	9.81		ug/L		98	70 - 133	3	20
Styrene	ND		10.0	10.4		ug/L		104	29 - 150	2	35
t-Butanol	ND		100	96.9		ug/L		97	70 - 130	11	25
Tetrachloroethene	ND		10.0	11.5		ug/L		115	70 - 137	6	20
Toluene	ND		10.0	9.44		ug/L		94	70 - 130	4	20
trans-1,2-Dichloroethene	ND		10.0	9.73		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	ND		10.0	9.40		ug/L		94	70 - 138	4	25
Trichloroethene	ND		10.0	9.46		ug/L		95	70 - 130	1	20
Trichlorofluoromethane	ND		10.0	10.7		ug/L		107	60 - 150	6	25
Vinyl acetate	ND		10.0	12.7		ug/L		127	23 - 150	5	30
Vinyl chloride	ND		10.0	8.98		ug/L		90	50 - 137	6	30
1,2-Dibromoethane (EDB)	ND		10.0	10.2		ug/L		102	70 - 131	6	25
2-Butanone (MEK)	ND		50.0	53.4		ug/L		107	48 - 140	5	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	54.2		ug/L		108	52 - 150	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

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

Lab Sample ID: MB 440-596377/1-A
Matrix: Water
Analysis Batch: 596792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		02/20/20 08:28	02/22/20 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*70*		*30 - 120*	*02/20/20 08:28*	*02/22/20 11:19*	*1*

Lab Sample ID: LCS 440-596377/2-A
Matrix: Water
Analysis Batch: 596792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596377

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.15		ug/L		58	35 - 120		

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

Lab Sample ID: LCS 440-596377/2-A
Matrix: Water
Analysis Batch: 596792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596377

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*54*		*30 - 120*

Lab Sample ID: LCSD 440-596377/3-A
Matrix: Water
Analysis Batch: 596792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 596377

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			2.00	1.26		ug/L		63	35 - 120	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*60*		*30 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-596176/6
Matrix: Water
Analysis Batch: 596176

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			02/19/20 11:35	1

Lab Sample ID: LCS 440-596176/5
Matrix: Water
Analysis Batch: 596176

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	4.85		mg/L		97	90 - 110		

Lab Sample ID: 440-261219-2 MS
Matrix: Water
Analysis Batch: 596176

Client Sample ID: DW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	13	J	250	251		mg/L		95	80 - 120		

Lab Sample ID: 440-261219-2 MSD
Matrix: Water
Analysis Batch: 596176

Client Sample ID: DW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13	J	250	252		mg/L		96	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-596412/1-A
Matrix: Water
Analysis Batch: 596695

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 596412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		02/20/20 10:03	02/21/20 11:04	1

QC Sample Results

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

Job ID: 440-261219-1

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 440-596412/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596695 — **Prep Batch: 596412**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			10.0	9.82		mg/L		98	80 - 120		

Lab Sample ID: 440-261219-1 MS — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596695 — **Prep Batch: 596412**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	4.0		10.0	14.0		mg/L		101	75 - 125		

Lab Sample ID: 440-261219-1 MSD — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596695 — **Prep Batch: 596412**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	4.0		10.0	14.4		mg/L		104	75 - 125	2	20

Lab Sample ID: MB 440-596638/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596771 — **Prep Batch: 596638**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		02/21/20 09:11	02/21/20 15:38	1

Lab Sample ID: LCS 440-596638/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596771 — **Prep Batch: 596638**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium			10.0	9.51		mg/L		95	80 - 120		

Lab Sample ID: 440-261219-7 MS — **Client Sample ID: LY-7**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596771 — **Prep Batch: 596638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Potassium	41		10.0	52.7	4	mg/L		117	75 - 125		

Lab Sample ID: 440-261219-7 MSD — **Client Sample ID: LY-7**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 596771 — **Prep Batch: 596638**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	41		10.0	48.3	4	mg/L		73	75 - 125	9	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-597259/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			02/25/20 12:02	1

Lab Sample ID: LCS 440-597259/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.83		mg/L		97	90 - 110

Lab Sample ID: MRL 440-597259/9 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597259

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.219		mg/L		110	50 - 150

Lab Sample ID: 440-261219-1 MS — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597259

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	3.4		5.00	8.55		mg/L		104	90 - 110

Lab Sample ID: 440-261219-1 MSD — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597259

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	3.4		5.00	8.41		mg/L		101	90 - 110	2	15

Method: 410.4 - COD

Lab Sample ID: MB 440-597209/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			02/25/20 13:51	1

Lab Sample ID: LCS 440-597209/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	199		mg/L		100	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 440-261356-A-1 MS
Matrix: Water
Analysis Batch: 597209

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	ND		200	191		mg/L		96	70 - 120

Lab Sample ID: 440-261356-A-1 MSD
Matrix: Water
Analysis Batch: 597209

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	ND		200	195		mg/L		98	70 - 120	2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-596347/3
Matrix: Water
Analysis Batch: 596347

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			02/20/20 04:44	1

Lab Sample ID: LCS 440-596347/2
Matrix: Water
Analysis Batch: 596347

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	75.7		mg/L		100	80 - 120

Lab Sample ID: 440-261211-C-1 DU
Matrix: Water
Analysis Batch: 596347

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	260		259		mg/L		0.2	20

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

Lab Sample ID: MB 440-597375/1
Matrix: Water
Analysis Batch: 597375

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			02/26/20 09:11	1

Lab Sample ID: LCS 440-597375/2
Matrix: Water
Analysis Batch: 597375

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	1010		mg/L		101	90 - 110

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

Lab Sample ID: 440-261219-1 DU — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597375

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1900		1880		mg/L		1	5

Method: SM 5310C - TOC

Lab Sample ID: MB 440-597055/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			02/24/20 05:27	1

Lab Sample ID: LCS 440-597055/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	5.00	4.88		mg/L		98	85 - 115

Lab Sample ID: MRL 440-597055/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.0900	J	mg/L		90	50 - 150

Lab Sample ID: 440-261219-1 MS — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.7		5.00	7.43		mg/L		114	85 - 115

Lab Sample ID: 440-261219-1 MSD — **Client Sample ID: DW-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 597055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.7		5.00	7.32		mg/L		112	85 - 115	1	20

QC Association Summary

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

Job ID: 440-261219-1

GC/MS VOA

Analysis Batch: 596343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	8260B	
440-261219-2	DW-3	Total/NA	Water	8260B	
440-261219-3	PZ-4	Total/NA	Water	8260B	
440-261219-4	CM-9R3	Total/NA	Water	8260B	
440-261219-5	Field Blank	Total/NA	Water	8260B	
440-261219-6	Trip Blank	Total/NA	Water	8260B	
440-261219-7	LY-7	Total/NA	Water	8260B	
MB 440-596343/4	Method Blank	Total/NA	Water	8260B	
LCS 440-596343/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261219-4 MS	CM-9R3	Total/NA	Water	8260B	
440-261219-4 MSD	CM-9R3	Total/NA	Water	8260B	

Analysis Batch: 596345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	8260B	
440-261219-2	DW-3	Total/NA	Water	8260B	
440-261219-3	PZ-4	Total/NA	Water	8260B	
440-261219-4	CM-9R3	Total/NA	Water	8260B	
440-261219-5	Field Blank	Total/NA	Water	8260B	
440-261219-6	Trip Blank	Total/NA	Water	8260B	
440-261219-7	LY-7	Total/NA	Water	8260B	
MB 440-596345/4	Method Blank	Total/NA	Water	8260B	
LCS 440-596345/1002	Lab Control Sample	Total/NA	Water	8260B	
440-261219-4 MS	CM-9R3	Total/NA	Water	8260B	
440-261219-4 MSD	CM-9R3	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 596377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	3520C	
440-261219-2	DW-3	Total/NA	Water	3520C	
440-261219-3	PZ-4	Total/NA	Water	3520C	
440-261219-4	CM-9R3	Total/NA	Water	3520C	
440-261219-7	LY-7	Total/NA	Water	3520C	
MB 440-596377/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-596377/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-596377/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 596792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-596377/1-A	Method Blank	Total/NA	Water	8270C	596377
LCS 440-596377/2-A	Lab Control Sample	Total/NA	Water	8270C	596377
LCSD 440-596377/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	596377

Analysis Batch: 596885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	8270C	596377
440-261219-2	DW-3	Total/NA	Water	8270C	596377
440-261219-3	PZ-4	Total/NA	Water	8270C	596377
440-261219-4	CM-9R3	Total/NA	Water	8270C	596377

GC/MS Semi VOA (Continued)

Analysis Batch: 596885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-7	LY-7	Total/NA	Water	8270C	596377

HPLC/IC

Analysis Batch: 596176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	300.0	
440-261219-2	DW-3	Total/NA	Water	300.0	
440-261219-2	DW-3	Total/NA	Water	300.0	
440-261219-3	PZ-4	Total/NA	Water	300.0	
440-261219-4	CM-9R3	Total/NA	Water	300.0	
440-261219-7	LY-7	Total/NA	Water	300.0	
MB 440-596176/6	Method Blank	Total/NA	Water	300.0	
LCS 440-596176/5	Lab Control Sample	Total/NA	Water	300.0	
440-261219-2 MS	DW-3	Total/NA	Water	300.0	
440-261219-2 MSD	DW-3	Total/NA	Water	300.0	

Metals

Prep Batch: 596412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total Recoverable	Water	3005A	
440-261219-2	DW-3	Total Recoverable	Water	3005A	
440-261219-3	PZ-4	Total Recoverable	Water	3005A	
440-261219-4	CM-9R3	Total Recoverable	Water	3005A	
MB 440-596412/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-596412/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-261219-1 MS	DW-2	Total Recoverable	Water	3005A	
440-261219-1 MSD	DW-2	Total Recoverable	Water	3005A	

Prep Batch: 596638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-7	LY-7	Total Recoverable	Water	3005A	
MB 440-596638/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-596638/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-261219-7 MS	LY-7	Total Recoverable	Water	3005A	
440-261219-7 MSD	LY-7	Total Recoverable	Water	3005A	

Analysis Batch: 596695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total Recoverable	Water	6010B	596412
440-261219-2	DW-3	Total Recoverable	Water	6010B	596412
440-261219-3	PZ-4	Total Recoverable	Water	6010B	596412
440-261219-4	CM-9R3	Total Recoverable	Water	6010B	596412
MB 440-596412/1-A	Method Blank	Total Recoverable	Water	6010B	596412
LCS 440-596412/2-A	Lab Control Sample	Total Recoverable	Water	6010B	596412
440-261219-1 MS	DW-2	Total Recoverable	Water	6010B	596412
440-261219-1 MSD	DW-2	Total Recoverable	Water	6010B	596412

Analysis Batch: 596771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-7	LY-7	Total Recoverable	Water	6010B	596638

Metals (Continued)

Analysis Batch: 596771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-596638/1-A	Method Blank	Total Recoverable	Water	6010B	596638
LCS 440-596638/2-A	Lab Control Sample	Total Recoverable	Water	6010B	596638
440-261219-7 MS	LY-7	Total Recoverable	Water	6010B	596638
440-261219-7 MSD	LY-7	Total Recoverable	Water	6010B	596638

General Chemistry

Analysis Batch: 596347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	SM 2320B	
440-261219-2	DW-3	Total/NA	Water	SM 2320B	
440-261219-3	PZ-4	Total/NA	Water	SM 2320B	
440-261219-4	CM-9R3	Total/NA	Water	SM 2320B	
440-261219-7	LY-7	Total/NA	Water	SM 2320B	
MB 440-596347/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-596347/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-261211-C-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 597055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	SM 5310C	
440-261219-2	DW-3	Total/NA	Water	SM 5310C	
440-261219-3	PZ-4	Total/NA	Water	SM 5310C	
440-261219-4	CM-9R3	Total/NA	Water	SM 5310C	
440-261219-7	LY-7	Total/NA	Water	SM 5310C	
MB 440-597055/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-597055/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-597055/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-261219-1 MS	DW-2	Total/NA	Water	SM 5310C	
440-261219-1 MSD	DW-2	Total/NA	Water	SM 5310C	

Analysis Batch: 597209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	410.4	
440-261219-2	DW-3	Total/NA	Water	410.4	
440-261219-3	PZ-4	Total/NA	Water	410.4	
440-261219-4	CM-9R3	Total/NA	Water	410.4	
440-261219-7	LY-7	Total/NA	Water	410.4	
MB 440-597209/3	Method Blank	Total/NA	Water	410.4	
LCS 440-597209/4	Lab Control Sample	Total/NA	Water	410.4	
440-261356-A-1 MS	Matrix Spike	Total/NA	Water	410.4	
440-261356-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 597259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	350.1	
440-261219-2	DW-3	Total/NA	Water	350.1	
440-261219-3	PZ-4	Total/NA	Water	350.1	
440-261219-4	CM-9R3	Total/NA	Water	350.1	
440-261219-7	LY-7	Total/NA	Water	350.1	
MB 440-597259/10	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 597259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-597259/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-597259/9	Lab Control Sample	Total/NA	Water	350.1	
440-261219-1 MS	DW-2	Total/NA	Water	350.1	
440-261219-1 MSD	DW-2	Total/NA	Water	350.1	

Analysis Batch: 597375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-261219-1	DW-2	Total/NA	Water	SM 2540C	
440-261219-2	DW-3	Total/NA	Water	SM 2540C	
440-261219-3	PZ-4	Total/NA	Water	SM 2540C	
440-261219-4	CM-9R3	Total/NA	Water	SM 2540C	
440-261219-7	LY-7	Total/NA	Water	SM 2540C	
MB 440-597375/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-597375/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-261219-1 DU	DW-2	Total/NA	Water	SM 2540C	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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.

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.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

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

Job ID: 440-261219-1

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	06-30-20
Arizona	State	AZ0671	10-14-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-7	07-31-20
Oregon	NELAP	4028 - 007	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record

390432

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Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchans	Site Contact: J. Mills	Date: 2-19-20	COC No:
Company Name: GLA Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tamara	Carrier: TIA	1 of 1 COCs
Address: 11415 W. Bernardo Ct.	**Analysis Turnaround Time**			Sampler: BS, NR, CU
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. Landfill	☐ 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)	EPA 8260B VOCs	8270 1,4-Dioxane	Total Alkalinity (310.1)	Ammonia as	(N) EPA 350.2	COD EPA 410.4	Chloride (300.0)	Total Potassium	EPA 6010B Cations	TDS (160.1)	TOC (EPA 415.1)	Sample Specific Notes:
DW-2	2/19/20	0810	G	GW	12			X	X	X	X	X	X	X	X	X	X	X	
DW-3	↓	0940	↓		12			X	X	X	X	X	X	X	X	X	X	X	
PZ-4	↓	0845	↓		12			X	X	X	X	X	X	X	X	X	X	X	
CM-9R3	↓	1043	↓		12			X	X	X	X	X	X	X	X	X	X	X	
Field Blank	↓	—	↓	CAS 1120	4			X											
Trip Blank	↓	—	↓	"	4			X											
LY-7	2/19/20	0935	G	GW	12			X	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.

☐ 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]	Rep-GSC	2/19/20 1115	Jeffrey Proctor	DCS	2-19-20 1115
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

390432

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Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchons	Site Contact: J. Mills	Date: 2-19-20	COC No.
Company Name: GLA / Republic	Tel/Email: 858-451-1136	Lab Contact: R. Tomova	Carrier: TA	1 of 1 COCs
Address: 11415 W. Bernardino	Analysis Turnaround Time			Sampler: BS, NR, CU
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 Gyn. Landfill	☐ 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)	EPA 8260B VOCs	8270 1,4-Dioxane	Total Alkalinity (310.1)	Ammonia as N	(2) EPA 350.2	(2) EPA 410.4	Chloride (300.0)	Total Potassium	EPA 6010B	TDS (160.1)	TOC (EPA 415.1)	Sample Specific Notes:
DW-2	2/19/20	0810	G	GW	12			X	X	X	X	X	X	X	X	X	X	X	
DW-3	↓	0840	↓		12			X	X	X	X	X	X	X	X	X	X	X	
PZ-4		0845			12			X	X	X	X	X	X	X	X	X	X	X	
CM-9R3		1043			12			X	X	X	X	X	X	X	X	X	X	X	
Field Blank		—						X											
Trip Blank	↓	—	↓					X											

2/19/20 CU

440-261219 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 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: 3.0 (3.9) Corr'd: 3.0 (3.9) | Therm ID No.: IR-93

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Area-Logic	2-19-20 1115	Jeffrey Proctor	DCS	2-19-20 1115
Relinquished by: Jeffrey Proctor	Company: DCS	Date/Time: 2-19-20 1230	Received by: [signature]	Company: EC-IRV	Date/Time: 2/19/20 1230
Relinquished by:	Company	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-261219-1

Login Number: 261219
List Number: 1
Creator: Dolidze, Lado

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.	False	Received extra samples not listed on COC.
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	

ANALYTICAL REPORT

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

Laboratory Job ID: 440-264738-1
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:
5/1/2020 2:25:59 PM

Rossina Tomova, Project Manager I
(949)260-3276
rossina.tomova@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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: 440-264738-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-264738-1	LR-2R	Water	04/15/20 11:15	04/15/20 17:00	
440-264738-2	Deep Leachate	Water	04/15/20 12:30	04/15/20 17:00	
440-264738-3	QCAB	Water	04/15/20 00:01	04/15/20 17:00	
440-264738-4	QCTB	Water	04/15/20 00:01	04/15/20 17:00	

Job ID: 440-264738-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-264738-1

Comments
No additional comments.

Receipt
The samples were received on 4/15/2020 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3º C.

GC/MS VOA
Method 8260B: The following sample was collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: Deep Leachate (440-264738-2).

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 sample required a dilution due to the nature of the sample matrix: Deep Leachate (440-264738-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270C LL: The following sample required a dilution due to the nature of the sample matrix: Deep Leachate (440-264738-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals
Method 3005A: The following sample was diluted due to the nature of the sample matrix: Deep Leachate (440-264738-2). Elevated reporting limits (RLs) are provided.

04/17/20
1.0 HNO3
LOT: 1119040
dilution of 4x
25mL to 100mL

Method 6010B: The continuing calibration blank (CCB) for analytical batch 440-605804 contained Arsenic above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 440-605681 and analytical batch 440-605804 contained Antimony above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

General Chemistry
Method SM 4500 S2 D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-605932 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.

Job ID: 440-264738-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

Organic Prep

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-605674. LCS was performed in duplicate to provide precision of data.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-606027. LCS was performed in duplicate to provide precision of data.

Method 3520C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for 8270C preparation/analysis: Deep Leachate (440-264738-2).

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 Sample Results

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

Job ID: 440-264738-1

Client Sample ID: LR-2R

Lab Sample ID: 440-264738-1
Date Collected: 04/15/20 11:15
Matrix: Water
Date Received: 04/15/20 17:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	0.22		0.050	0.027	mg/L			04/21/20 15:12	1

Client Sample ID: Deep Leachate

Lab Sample ID: 440-264738-2
Date Collected: 04/15/20 12:30
Matrix: Water
Date Received: 04/15/20 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	1200		250	130	ug/L			04/16/20 11:49	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*80 - 128*		*04/16/20 11:49*	*25*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/16/20 11:49*	*25*
Dibromofluoromethane (Surr)	*124*		*76 - 132*		*04/16/20 11:49*	*25*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	18		11	4.4	ug/L		04/20/20 10:27	04/22/20 10:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*38*	*X*	*40 - 120*	*04/20/20 10:27*	*04/22/20 10:44*	*20*
2-Fluorobiphenyl	*28*	*X*	*50 - 120*	*04/20/20 10:27*	*04/22/20 10:44*	*20*
2-Fluorophenol (Surr)	*40*		*30 - 120*	*04/20/20 10:27*	*04/22/20 10:44*	*20*
Nitrobenzene-d5 (Surr)	*41*	*X*	*45 - 120*	*04/20/20 10:27*	*04/22/20 10:44*	*20*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*04/20/20 10:27*	*04/22/20 10:44*	*20*
Terphenyl-d14 (Surr)	*14*	*X*	*37 - 144*	*04/20/20 10:27*	*04/22/20 10:44*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		170	23	ug/L		04/22/20 08:46	04/24/20 14:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*40 - 120*	*04/22/20 08:46*	*04/24/20 14:17*	*10*
2-Fluorobiphenyl	*47*	*X*	*50 - 120*	*04/22/20 08:46*	*04/24/20 14:17*	*10*
2-Fluorophenol (Surr)	*67*		*30 - 120*	*04/22/20 08:46*	*04/24/20 14:17*	*10*
Nitrobenzene-d5 (Surr)	*66*		*45 - 120*	*04/22/20 08:46*	*04/24/20 14:17*	*10*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*04/22/20 08:46*	*04/24/20 14:17*	*10*
Terphenyl-d14 (Surr)	*22*		*10 - 150*	*04/22/20 08:46*	*04/24/20 14:17*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.032	J B	0.040	0.024	mg/L		04/20/20 10:48	04/20/20 22:38	1
Arsenic	0.074		0.040	0.036	mg/L		04/20/20 10:48	04/20/20 22:38	1
Cobalt	0.021	J	0.040	0.020	mg/L		04/20/20 10:48	04/20/20 22:38	1
Vanadium	0.080		0.040	0.020	mg/L		04/20/20 10:48	04/20/20 22:38	1
Zinc	1.0		0.080	0.048	mg/L		04/20/20 10:48	04/20/20 22:38	1

Client Sample Results

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

Job ID: 440-264738-1

Client Sample ID: QCAB

Lab Sample ID: 440-264738-3
Date Collected: 04/15/20 00:01
Matrix: Water
Date Received: 04/15/20 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		10	5.0	ug/L			04/16/20 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 128*		*04/16/20 12:19*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/16/20 12:19*	*1*
Dibromofluoromethane (Surr)	*127*		*76 - 132*		*04/16/20 12:19*	*1*

Client Sample ID: QCTB

Lab Sample ID: 440-264738-4
Date Collected: 04/15/20 00:01
Matrix: Water
Date Received: 04/15/20 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		10	5.0	ug/L			04/16/20 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*80 - 128*		*04/16/20 12:49*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*04/16/20 12:49*	*1*
Dibromofluoromethane (Surr)	*126*		*76 - 132*		*04/16/20 12:49*	*1*

Method Summary

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

Job ID: 440-264738-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

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:

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: 440-264738-1

Client Sample ID: LR-2R
Date Collected: 04/15/20 11:15
Date Received: 04/15/20 17:00

Lab Sample ID: 440-264738-1
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	SM 4500 S2 D		1	7.5 mL	7.5 mL	605932	04/21/20 15:12	KMY	TAL IRV

Client Sample ID: Deep Leachate
Date Collected: 04/15/20 12:30
Date Received: 04/15/20 17:00

Lab Sample ID: 440-264738-2
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		25	10 mL	10 mL	605276	04/16/20 11:49	MML	TAL IRV
Total/NA	Prep	3520C			875 mL	2.0 mL	606027	04/22/20 08:46	NAM	TAL IRV
Total/NA	Analysis	8270C		10			606370	04/24/20 14:17	L1B	TAL IRV
Total/NA	Prep	3520C			900 mL	2.0 mL	605674	04/20/20 10:27	NAM	TAL IRV
Total/NA	Analysis	8270C LL		20			606011	04/22/20 10:44	L1B	TAL IRV
Total Recoverable	Prep	3005A			6.25 mL	25 mL	605681	04/20/20 10:48	EP	TAL IRV
Total Recoverable	Analysis	6010B		1			605804	04/20/20 22:38	VS	TAL IRV

Client Sample ID: QCAB
Date Collected: 04/15/20 00:01
Date Received: 04/15/20 17:00

Lab Sample ID: 440-264738-3
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	10 mL	10 mL	605276	04/16/20 12:19	MML	TAL IRV

Client Sample ID: QCTB
Date Collected: 04/15/20 00:01
Date Received: 04/15/20 17:00

Lab Sample ID: 440-264738-4
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	10 mL	10 mL	605276	04/16/20 12:49	MML	TAL IRV

Laboratory References:

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

QC Sample Results

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

Job ID: 440-264738-1

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

Lab Sample ID: MB 440-605276/6
Matrix: Water
Analysis Batch: 605276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butanol	ND		10	5.0	ug/L			04/16/20 09:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*80 - 128*		*04/16/20 09:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*04/16/20 09:49*	*1*
Dibromofluoromethane (Surr)	*128*		*76 - 132*		*04/16/20 09:49*	*1*

Lab Sample ID: LCS 440-605276/1004
Matrix: Water
Analysis Batch: 605276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
t-Butanol	250	257		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*120*		*76 - 132*

Lab Sample ID: 440-264739-A-1 MS
Matrix: Water
Analysis Batch: 605276

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
t-Butanol	ND		1000	863		ug/L		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*122*		*76 - 132*

Lab Sample ID: 440-264739-A-1 MSD
Matrix: Water
Analysis Batch: 605276

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
t-Butanol	ND		1000	871		ug/L		87	70 - 130	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*111*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*125*		*76 - 132*

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

Lab Sample ID: MB 440-606027/1-A
Matrix: Water
Analysis Batch: 606370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 606027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		15	2.0	ug/L		04/22/20 08:46	04/24/20 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*106*		*40 - 120*	*04/22/20 08:46*	*04/24/20 10:52*	*1*
2-Fluorobiphenyl	*85*		*50 - 120*	*04/22/20 08:46*	*04/24/20 10:52*	*1*
2-Fluorophenol (Surr)	*84*		*30 - 120*	*04/22/20 08:46*	*04/24/20 10:52*	*1*
Nitrobenzene-d5 (Surr)	*90*		*45 - 120*	*04/22/20 08:46*	*04/24/20 10:52*	*1*
Phenol-d6 (Surr)	*87*		*35 - 120*	*04/22/20 08:46*	*04/24/20 10:52*	*1*
Terphenyl-d14 (Surr)	*96*		*10 - 150*	*04/22/20 08:46*	*04/24/20 10:52*	*1*

Lab Sample ID: LCS 440-606027/2-A
Matrix: Water
Analysis Batch: 606370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 606027

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetophenone			100	82.5		ug/L		82	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*102*		*40 - 120*
2-Fluorobiphenyl	*80*		*50 - 120*
2-Fluorophenol (Surr)	*78*		*30 - 120*
Nitrobenzene-d5 (Surr)	*85*		*45 - 120*
Phenol-d6 (Surr)	*82*		*35 - 120*
Terphenyl-d14 (Surr)	*91*		*10 - 150*

Lab Sample ID: LCSD 440-606027/3-A
Matrix: Water
Analysis Batch: 606370

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 606027

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetophenone			100	84.9		ug/L		85	60 - 140	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*107*		*40 - 120*
2-Fluorobiphenyl	*85*		*50 - 120*
2-Fluorophenol (Surr)	*82*		*30 - 120*
Nitrobenzene-d5 (Surr)	*88*		*45 - 120*
Phenol-d6 (Surr)	*85*		*35 - 120*
Terphenyl-d14 (Surr)	*88*		*10 - 150*

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 440-605674/1-A
Matrix: Water
Analysis Batch: 606011

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 605674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.50	0.20	ug/L		04/20/20 10:27	04/22/20 09:07	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		40 - 120	04/20/20 10:27	04/22/20 09:07	1
2-Fluorobiphenyl	79		50 - 120	04/20/20 10:27	04/22/20 09:07	1
2-Fluorophenol (Surr)	81		30 - 120	04/20/20 10:27	04/22/20 09:07	1
Nitrobenzene-d5 (Surr)	65		45 - 120	04/20/20 10:27	04/22/20 09:07	1
Phenol-d6 (Surr)	78		35 - 120	04/20/20 10:27	04/22/20 09:07	1
Terphenyl-d14 (Surr)	90		37 - 144	04/20/20 10:27	04/22/20 09:07	1

Lab Sample ID: LCS 440-605674/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 606011 — **Prep Batch: 605674**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	15.0	10.4		ug/L		69	41 - 84

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		40 - 120
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol (Surr)	78		30 - 120
Nitrobenzene-d5 (Surr)	84		45 - 120
Phenol-d6 (Surr)	80		35 - 120
Terphenyl-d14 (Surr)	85		37 - 144

Lab Sample ID: LCSD 440-605674/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 606011 — **Prep Batch: 605674**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	15.0	10.6		ug/L		70	41 - 84	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		40 - 120
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol (Surr)	80		30 - 120
Nitrobenzene-d5 (Surr)	82		45 - 120
Phenol-d6 (Surr)	77		35 - 120
Terphenyl-d14 (Surr)	88		37 - 144

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-605681/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 605804 — **Prep Batch: 605681**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00640	J	0.010	0.0060	mg/L		04/20/20 10:48	04/20/20 22:09	1
Arsenic	ND		0.010	0.0089	mg/L		04/20/20 10:48	04/20/20 22:09	1
Cobalt	ND		0.010	0.0050	mg/L		04/20/20 10:48	04/20/20 22:09	1
Vanadium	ND		0.010	0.0050	mg/L		04/20/20 10:48	04/20/20 22:09	1
Zinc	ND		0.020	0.012	mg/L		04/20/20 10:48	04/20/20 22:09	1

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

Lab Sample ID: LCS 440-605681/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 605804 — **Prep Batch: 605681**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.07		mg/L		107	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120
Cobalt	1.00	1.00		mg/L		100	80 - 120
Vanadium	1.00	1.00		mg/L		100	80 - 120
Zinc	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: 440-264792-O-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 605804 — **Prep Batch: 605681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	1.09		mg/L		109	75 - 125
Arsenic	0.016	^	1.00	1.04		mg/L		103	75 - 125
Cobalt	ND		1.00	0.980		mg/L		98	75 - 125
Vanadium	0.022		1.00	1.04		mg/L		102	75 - 125
Zinc	0.016	J	1.00	0.987		mg/L		97	75 - 125

Lab Sample ID: 440-264792-O-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 605804 — **Prep Batch: 605681**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	1.13		mg/L		113	75 - 125	4	20
Arsenic	0.016	^	1.00	1.07		mg/L		106	75 - 125	3	20
Cobalt	ND		1.00	1.01		mg/L		101	75 - 125	3	20
Vanadium	0.022		1.00	1.07		mg/L		105	75 - 125	3	20
Zinc	0.016	J	1.00	1.02		mg/L		100	75 - 125	3	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-605932/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605932

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			04/21/20 15:11	1

Lab Sample ID: LCS 440-605932/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	0.500	0.456		mg/L		91	80 - 120

Lab Sample ID: LCSD 440-605932/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 605932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	0.500	0.434		mg/L		87	80 - 120	5	20

QC Sample Results

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

Job ID: 440-264738-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: 440-264632-M-1 MS
Matrix: Water
Analysis Batch: 605932

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 Sulfide	ND	F1	0.500	0.198	F1	mg/L		40	70 - 130		

Lab Sample ID: 440-264632-M-1 MSD
Matrix: Water
Analysis Batch: 605932

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 Sulfide	ND	F1	0.500	0.251	F1	mg/L		50	70 - 130	23	30

QC Association Summary

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

Job ID: 440-264738-1

GC/MS VOA

Analysis Batch: 605276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total/NA	Water	8260B	
440-264738-3	QCAB	Total/NA	Water	8260B	
440-264738-4	QCTB	Total/NA	Water	8260B	
MB 440-605276/6	Method Blank	Total/NA	Water	8260B	
LCS 440-605276/1004	Lab Control Sample	Total/NA	Water	8260B	
440-264739-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-264739-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 605674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total/NA	Water	3520C	
MB 440-605674/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-605674/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-605674/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 606011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total/NA	Water	8270C LL	605674
MB 440-605674/1-A	Method Blank	Total/NA	Water	8270C LL	605674
LCS 440-605674/2-A	Lab Control Sample	Total/NA	Water	8270C LL	605674
LCSD 440-605674/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	605674

Prep Batch: 606027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total/NA	Water	3520C	
MB 440-606027/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-606027/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-606027/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 606370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total/NA	Water	8270C	606027
MB 440-606027/1-A	Method Blank	Total/NA	Water	8270C	606027
LCS 440-606027/2-A	Lab Control Sample	Total/NA	Water	8270C	606027
LCSD 440-606027/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	606027

Metals

Prep Batch: 605681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total Recoverable	Water	3005A	
MB 440-605681/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-605681/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-264792-O-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-264792-O-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 605804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-2	Deep Leachate	Total Recoverable	Water	6010B	605681
MB 440-605681/1-A	Method Blank	Total Recoverable	Water	6010B	605681

Metals (Continued)

Analysis Batch: 605804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-605681/2-A	Lab Control Sample	Total Recoverable	Water	6010B	605681
440-264792-O-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	605681
440-264792-O-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	605681

General Chemistry

Analysis Batch: 605932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-264738-1	LR-2R	Total/NA	Water	SM 4500 S2 D	
MB 440-605932/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-605932/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 440-605932/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
440-264632-M-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
440-264632-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

Definitions/Glossary

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

Job ID: 440-264738-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

Metals

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

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

Job ID: 440-264738-1

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	06-30-20
Arizona	State	AZ0671	10-14-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-8	07-31-20
Nevada	State	CA015312020-8	07-31-20
Oregon	NELAP	4028 - 007	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 206650

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

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

Client Contact	Project Manager: Kyle Walchans	Site Contact: Jason Mills	Date: 4.15.20	COC No:
Company Name: Geologic Associates/Republic	Tel/Fax: Cell # 619-540-5509	Lab Contact: Rossine	Carrier:	1 of 1 COCs
Address: 11415 W. Bernardo Ct 200	Analysis Turnaround Time			Sampler:
City/State/Zip: San Diego CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below ____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name: Republic - Retest	☐ 1 week			
Site: Sunshine Canyon LF	☐ 2 days			Job / SDG No.
PO # I/N 5020.1006	☐ 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)	EPA 8260B - t-butanol	EPA 376.2 - Sulfide	EPA 6010B - Total	Metals: Sb, As, Co, V, Zn	EPA 8270C - Acetophenone	Chlorobenzene	Sample Specific Notes. JL 4/15/20
LR-2R	4/15/20	1115	G	L	2				X					Sulfide Only
Deep Leachate		1230	↓	L	7			X		X	X	X	X	
QCAB		—	Blanks		3			X						
QCTB		—	↓		2			X						

4/15/20 LD

440-264738 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 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. .1 Corr'd .3 | Therm ID No: IR-93

Relinquished by:	Company	Date/Time	Received by:	Company:	Date/Time:
A. SHAW / [signature]	Geologic Assoc.	1600	[signature]	EC-IRV	4/15/20 1600
[signature]	EC-IRV 1700	4/15/20			
			Received in Laboratory by: Olger Cinelas	EC-IRV	4/15/20 1700

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-264738-1

Login Number: 264738
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	

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: 440-267785-1
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:
6/30/2020 6:21:58 PM

Rossina Tomova, Project Manager I
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rossina.tomova@testamericainc.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: 440-267785-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-267785-1	CM-9R3	Water	06/22/20 10:47	06/22/20 17:00	
440-267785-2	CM-10R	Water	06/22/20 09:16	06/22/20 17:00	
440-267785-3	CM-11R	Water	06/22/20 12:27	06/22/20 17:00	
440-267785-4	MW-6	Water	06/22/20 11:17	06/22/20 17:00	
440-267785-5	MW-14	Water	06/22/20 08:55	06/22/20 17:00	
440-267785-6	PZ-2	Water	06/22/20 13:14	06/22/20 17:00	
440-267785-7	Subdrain (N)	Water	06/22/20 12:00	06/22/20 17:00	
440-267785-8	Duplicate	Water	06/22/20 00:01	06/22/20 17:00	
440-267785-9	Field BLank	Water	06/22/20 00:01	06/22/20 17:00	
440-267785-10	Trip Blank	Water	06/22/20 00:01	06/22/20 17:00	

Job ID: 440-267785-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-267785-1

Comments
No additional comments.

Receipt
The samples were received on 6/22/2020 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.4º C, 1.3º C and 1.8º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 440-614081 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: CM-9R3 (440-267785-1), CM-10R (440-267785-2), CM-11R (440-267785-3), MW-6 (440-267785-4), MW-14 (440-267785-5), PZ-2 (440-267785-6), Subdrain (N) (440-267785-7), Duplicate (440-267785-8), Field BLank (440-267785-9), Trip Blank (440-267785-10) and (CCVIS 440-614081/2).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-614081 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-614081 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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
Method 300.0: The following samples were diluted due to the nature of the sample matrix: CM-9R3 (440-267785-1), CM-11R (440-267785-3), MW6 (440-267785-4), PZ-2 (440-267785-6) and Subdrain (N) (440-267785-7). 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.

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 3: Subdrain (N) (440-267785-7), (440-267785-I-7 MS), (440-267785-I-7 MSD) and (440-267785-I-7 PDS). The sample was preserved to the appropriate pH in the laboratory.

1.0mL of HNO3 was added to container I-7 on 06/23/20
HNO3 Bottle Lot # 1119051

Method 6010B: The method blank for preparation batch 440-614209 and analytical batch 440-614569 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 440-614209 and analytical batch 440-614569 contained Sodium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010B: The method blank for preparation batch 440-614209 and analytical batch 440-615018 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Job ID: 440-267785-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

Method 6010B: The method blank for preparation batch 440-614117 and analytical batch 440-614593 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-613922. LCS was performed in duplicate to provide precision of data.

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 Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-9R3

Date Collected: 06/22/20 10:47
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-1

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	0.40	ug/L			06/24/20 09:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 09:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 09:11	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 09:11	1
2-Chloro-1,3-butadiene	ND	F1	1.0	0.50	ug/L			06/24/20 09:11	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 09:11	1
Acetone	ND		20	10	ug/L			06/24/20 09:11	1
Acetonitrile	ND		20	10	ug/L			06/24/20 09:11	1
Acrolein	ND	F1 *	5.0	2.5	ug/L			06/24/20 09:11	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 09:11	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 09:11	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 09:11	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 09:11	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 09:11	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Dichlorodifluoromethane	ND	F1	1.0	0.40	ug/L			06/24/20 09:11	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 09:11	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 09:11	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 09:11	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 09:11	1
Methylacrylonitrile	ND	F1	10	2.5	ug/L			06/24/20 09:11	1
Methyl methacrylate	ND	F1	2.0	1.0	ug/L			06/24/20 09:11	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 09:11	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 09:11	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-9R3

Date Collected: 06/22/20 10:47
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-1

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	0.40	ug/L			06/24/20 09:11	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Propionitrile	ND		20	10	ug/L			06/24/20 09:11	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 09:11	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 09:11	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 09:11	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 09:11	1
Vinyl acetate	ND	F1	4.0	2.0	ug/L			06/24/20 09:11	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 09:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 09:11	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 09:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 09:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.1*	*T J*	*ug/L*		*2.58*			*06/24/20 09:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 09:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/24/20 09:11*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*06/24/20 09:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/23/20 08:18	06/24/20 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*49*		*30 - 120*	*06/23/20 08:18*	*06/24/20 12:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/22/20 20:53	2
Nitrate as N	ND		0.22	0.11	mg/L			06/22/20 20:53	2
Chloride	**14**		1.0	0.50	mg/L			06/22/20 20:53	2
Fluoride	**2.2**		1.0	0.50	mg/L			06/22/20 20:53	2
Sulfate	**2800**		50	25	mg/L			06/22/20 21:10	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.7**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 16:59	1
Calcium	**360**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:59	1
Iron	**15**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:59	1
Magnesium	**230**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 16:59	1
Manganese	**2.6**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 16:59	1
Potassium	**14**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 16:59	1
Sodium	**400**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 16:59	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-9R3

Lab Sample ID: 440-267785-1
Date Collected: 06/22/20 10:47
Matrix: Water
Date Received: 06/22/20 17:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		1.0	0.50	mg/L			06/29/20 17:44	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:37	1
Total Dissolved Solids	**3800**		20	10	mg/L			06/24/20 16:47	1
Total Sulfide	ND	F1	0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	**7.0**		0.10	0.050	mg/L			06/24/20 07:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**220**		4.0	4.0	mg/L			06/23/20 07:09	1
Bicarbonate Alkalinity as CaCO3	**220**		4.0	4.0	mg/L			06/23/20 07:09	1
Carbon Dioxide, Free	**70**		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: CM-10R

Lab Sample ID: 440-267785-2
Date Collected: 06/22/20 09:16
Matrix: Water
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 09:39	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 09:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 09:39	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 09:39	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 09:39	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 09:39	1
Acetone	ND		20	10	ug/L			06/24/20 09:39	1
Acetonitrile	ND		20	10	ug/L			06/24/20 09:39	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 09:39	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 09:39	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 09:39	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 09:39	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 09:39	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 09:39	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-10R

Date Collected: 06/22/20 09:16
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 09:39	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 09:39	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 09:39	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 09:39	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 09:39	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 09:39	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 09:39	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 09:39	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 09:39	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Propionitrile	ND		20	10	ug/L			06/24/20 09:39	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 09:39	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 09:39	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 09:39	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 09:39	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 09:39	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 09:39	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 09:39	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 09:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 09:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*06/24/20 09:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 128*		*06/24/20 09:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/24/20 09:39*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*06/24/20 09:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/23/20 08:18	06/24/20 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*43*		*30 - 120*	*06/23/20 08:18*	*06/24/20 13:14*	*1*

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-10R

Lab Sample ID: 440-267785-2
Date Collected: 06/22/20 09:16
Matrix: Water
Date Received: 06/22/20 17:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.65		0.50	0.25	mg/L			06/22/20 21:27	1
Nitrate as N	ND		0.11	0.055	mg/L			06/22/20 21:27	1
Chloride	8.1		0.50	0.25	mg/L			06/22/20 21:27	1
Fluoride	1.4		0.50	0.25	mg/L			06/22/20 21:27	1
Sulfate	1700		25	13	mg/L			06/22/20 21:45	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:11	1
Calcium	280	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:11	1
Iron	2.4		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:11	1
Magnesium	180		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:11	1
Manganese	0.54		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:11	1
Potassium	12		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:11	1
Sodium	210		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	11		1.0	0.50	mg/L			06/29/20 17:49	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:37	1
Total Dissolved Solids	2700		20	10	mg/L			06/24/20 16:47	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	3.3		0.10	0.050	mg/L			06/24/20 07:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	380		4.0	4.0	mg/L			06/23/20 07:19	1
Bicarbonate Alkalinity as CaCO3	380		4.0	4.0	mg/L			06/23/20 07:19	1
Carbon Dioxide, Free	60		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: CM-11R

Lab Sample ID: 440-267785-3
Date Collected: 06/22/20 12:27
Matrix: Water
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 11:04	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 11:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 11:04	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-11R

Date Collected: 06/22/20 12:27
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 11:04	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 11:04	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 11:04	1
Acetone	ND		20	10	ug/L			06/24/20 11:04	1
Acetonitrile	ND		20	10	ug/L			06/24/20 11:04	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 11:04	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 11:04	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 11:04	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 11:04	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 11:04	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 11:04	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 11:04	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 11:04	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 11:04	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 11:04	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 11:04	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 11:04	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 11:04	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 11:04	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 11:04	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Propionitrile	ND		20	10	ug/L			06/24/20 11:04	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 11:04	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 11:04	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 11:04	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 11:04	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 11:04	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 11:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 11:04	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: CM-11R

Date Collected: 06/22/20 12:27
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 11:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 11:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 11:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*124*		*80 - 128*		*06/24/20 11:04*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/24/20 11:04*	*1*
Dibromofluoromethane (Surr)	*87*		*76 - 132*		*06/24/20 11:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/23/20 08:18	06/24/20 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*51*		*30 - 120*	*06/23/20 08:18*	*06/24/20 13:35*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/22/20 22:02	2
Nitrate as N	**0.14**	**J**	0.22	0.11	mg/L			06/22/20 22:02	2
Chloride	**9.9**		1.0	0.50	mg/L			06/22/20 22:02	2
Fluoride	**0.67**	**J**	1.0	0.50	mg/L			06/22/20 22:02	2
Sulfate	**2600**		50	25	mg/L			06/22/20 22:19	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.4**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:14	1
Calcium	**240**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:14	1
Iron	**0.12**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:14	1
Magnesium	**150**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:14	1
Manganese	**3.5**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:14	1
Potassium	**11**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:14	1
Sodium	**570**		1.0	0.52	mg/L		06/24/20 08:25	06/30/20 15:35	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		1.0	0.50	mg/L			06/29/20 17:55	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:37	1
Total Dissolved Solids	**3600**		20	10	mg/L			06/24/20 16:47	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	**5.1**		0.10	0.050	mg/L			06/24/20 08:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**50**		4.0	4.0	mg/L			06/23/20 07:25	1
Bicarbonate Alkalinity as CaCO3	**50**		4.0	4.0	mg/L			06/23/20 07:25	1
Carbon Dioxide, Free	**62**		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: MW-6

Date Collected: 06/22/20 11:17
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-4

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	0.40	ug/L			06/24/20 11:32	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 11:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 11:32	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 11:32	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 11:32	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 11:32	1
Acetone	ND		20	10	ug/L			06/24/20 11:32	1
Acetonitrile	ND		20	10	ug/L			06/24/20 11:32	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 11:32	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 11:32	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 11:32	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 11:32	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 11:32	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 11:32	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 11:32	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 11:32	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 11:32	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 11:32	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 11:32	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 11:32	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 11:32	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 11:32	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 11:32	1

Client Sample ID: MW-6

Date Collected: 06/22/20 11:17
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-4

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	0.40	ug/L			06/24/20 11:32	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Propionitrile	ND		20	10	ug/L			06/24/20 11:32	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 11:32	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 11:32	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 11:32	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 11:32	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 11:32	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 11:32	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 11:32	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 11:32	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 11:32*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/24/20 11:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/24/20 11:32*	*1*
Dibromofluoromethane (Surr)	*86*		*76 - 132*		*06/24/20 11:32*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/23/20 08:18	06/24/20 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*38*		*30 - 120*	*06/23/20 08:18*	*06/24/20 13:56*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.86**	**J**	1.0	0.50	mg/L			06/22/20 22:36	2
Nitrate as N	ND		0.22	0.11	mg/L			06/22/20 22:36	2
Chloride	**37**		5.0	2.5	mg/L			06/23/20 14:00	10
Fluoride	**1.6**		1.0	0.50	mg/L			06/22/20 22:36	2
Sulfate	**2200**		50	25	mg/L			06/22/20 23:28	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.74**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:26	1
Calcium	**410**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:26	1
Iron	**1.5**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:26	1
Magnesium	**210**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:26	1
Manganese	**1.3**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:26	1
Potassium	**6.5**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:26	1
Sodium	**330**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:26	1

Client Sample ID: MW-6

Lab Sample ID: 440-267785-4
Date Collected: 06/22/20 11:17
Matrix: Water
Date Received: 06/22/20 17:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.88**	**J**	1.0	0.50	mg/L			06/29/20 18:09	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:37	1
Total Dissolved Solids	**3700**		20	10	mg/L			06/24/20 16:47	1
Total Sulfide	**6.3**		0.50	0.27	mg/L			06/23/20 14:52	10
Total Organic Carbon	**5.7**		0.10	0.050	mg/L			06/24/20 09:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**480**		4.0	4.0	mg/L			06/23/20 07:36	1
Bicarbonate Alkalinity as CaCO3	**480**		4.0	4.0	mg/L			06/23/20 07:36	1
Carbon Dioxide, Free	**63**		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: MW-14

Lab Sample ID: 440-267785-5
Date Collected: 06/22/20 08:55
Matrix: Water
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 12:00	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 12:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 12:00	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 12:00	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 12:00	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 12:00	1
Acetone	ND		20	10	ug/L			06/24/20 12:00	1
Acetonitrile	ND		20	10	ug/L			06/24/20 12:00	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 12:00	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 12:00	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 12:00	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 12:00	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 12:00	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 12:00	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: MW-14

Date Collected: 06/22/20 08:55
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 12:00	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:00	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 12:00	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 12:00	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 12:00	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 12:00	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:00	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 12:00	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 12:00	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Propionitrile	ND		20	10	ug/L			06/24/20 12:00	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 12:00	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 12:00	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 12:00	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 12:00	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 12:00	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 12:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 12:00	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 12:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 12:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/24/20 12:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/24/20 12:00*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/24/20 12:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/23/20 08:18	06/24/20 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*43*		*30 - 120*	*06/23/20 08:18*	*06/24/20 14:18*	*1*

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: MW-14

Lab Sample ID: 440-267785-5
Date Collected: 06/22/20 08:55
Matrix: Water
Date Received: 06/22/20 17:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.58		0.50	0.25	mg/L			06/22/20 23:45	1
Nitrate as N	0.18		0.11	0.055	mg/L			06/22/20 23:45	1
Chloride	32		5.0	2.5	mg/L			06/23/20 14:17	10
Fluoride	1.4		0.50	0.25	mg/L			06/22/20 23:45	1
Sulfate	2000		100	50	mg/L			06/23/20 19:48	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.34		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:30	1
Calcium	460	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:30	1
Iron	ND		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:30	1
Magnesium	180		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:30	1
Manganese	4.8		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:30	1
Potassium	8.7		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:30	1
Sodium	240		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND	F1	0.20	0.10	mg/L			06/29/20 18:15	1
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:38	1
Total Dissolved Solids	3500		20	10	mg/L			06/24/20 16:47	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	5.1		0.10	0.050	mg/L			06/24/20 09:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	320		4.0	4.0	mg/L			06/23/20 07:45	1
Bicarbonate Alkalinity as CaCO3	320		4.0	4.0	mg/L			06/23/20 07:45	1
Carbon Dioxide, Free	49		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: PZ-2

Lab Sample ID: 440-267785-6
Date Collected: 06/22/20 13:14
Matrix: Water
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 12:28	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 12:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 12:28	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: PZ-2

Date Collected: 06/22/20 13:14
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 12:28	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 12:28	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 12:28	1
Acetone	ND		20	10	ug/L			06/24/20 12:28	1
Acetonitrile	ND		20	10	ug/L			06/24/20 12:28	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 12:28	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 12:28	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 12:28	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 12:28	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 12:28	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 12:28	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 12:28	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:28	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 12:28	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 12:28	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 12:28	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 12:28	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:28	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 12:28	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 12:28	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Propionitrile	ND		20	10	ug/L			06/24/20 12:28	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 12:28	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 12:28	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 12:28	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 12:28	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 12:28	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 12:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 12:28	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: PZ-2

Date Collected: 06/22/20 13:14
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 12:28	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 12:28*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/24/20 12:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/24/20 12:28*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/24/20 12:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.25**	**J**	0.99	0.25	ug/L		06/23/20 08:18	06/24/20 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*46*		*30 - 120*	*06/23/20 08:18*	*06/24/20 14:39*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.0	2.5	mg/L			06/23/20 00:19	10
Nitrate as N	ND		1.1	0.55	mg/L			06/23/20 00:19	10
Chloride	**17**		5.0	2.5	mg/L			06/23/20 00:19	10
Fluoride	ND		5.0	2.5	mg/L			06/23/20 00:19	10
Sulfate	**2400**		100	50	mg/L			06/23/20 00:36	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.2**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:33	1
Calcium	**75**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:33	1
Iron	**0.17**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:33	1
Magnesium	**63**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:33	1
Manganese	**0.13**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:33	1
Potassium	**3.8**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:33	1
Sodium	**1100**		2.5	1.3	mg/L		06/24/20 08:25	06/30/20 15:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.1**		1.0	0.50	mg/L			06/29/20 18:43	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:38	1
Total Dissolved Solids	**3800**		50	25	mg/L			06/24/20 16:47	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	**2.5**		0.10	0.050	mg/L			06/24/20 13:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**320**		4.0	4.0	mg/L			06/23/20 07:59	1
Bicarbonate Alkalinity as CaCO3	**320**		4.0	4.0	mg/L			06/23/20 07:59	1
Carbon Dioxide, Free	**11**		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Subdrain (N)

Date Collected: 06/22/20 12:00
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-7

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	0.40	ug/L			06/24/20 12:56	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 12:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 12:56	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,4-Dichlorobenzene	**0.47**	**J**	0.50	0.25	ug/L			06/24/20 12:56	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 12:56	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 12:56	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 12:56	1
Acetone	ND		20	10	ug/L			06/24/20 12:56	1
Acetonitrile	ND		20	10	ug/L			06/24/20 12:56	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 12:56	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 12:56	1
Benzene	**1.9**		0.50	0.25	ug/L			06/24/20 12:56	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 12:56	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 12:56	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 12:56	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 12:56	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
cis-1,2-Dichloroethene	**0.66**		0.50	0.25	ug/L			06/24/20 12:56	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 12:56	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:56	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 12:56	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 12:56	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 12:56	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 12:56	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 12:56	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 12:56	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 12:56	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Subdrain (N)

Date Collected: 06/22/20 12:00
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-7

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	0.40	ug/L			06/24/20 12:56	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Propionitrile	ND		20	10	ug/L			06/24/20 12:56	1
Styrene	**0.32**	**J**	0.50	0.25	ug/L			06/24/20 12:56	1
t-Butanol	**57**		10	5.0	ug/L			06/24/20 12:56	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Tetrahydrofuran	**13**		10	5.0	ug/L			06/24/20 12:56	1
Toluene	**0.30**	**J**	0.50	0.25	ug/L			06/24/20 12:56	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 12:56	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 12:56	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 12:56	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 12:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 12:56	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 12:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
1-Propene, 2-methyl-	*4.7*	*T J N*	*ug/L*		*2.67*	*115-11-7*		*06/24/20 12:56*	*1*
Unknown	*8.8*	*T J*	*ug/L*		*5.04*			*06/24/20 12:56*	*1*
Unknown	*2.6*	*T J*	*ug/L*		*9.98*			*06/24/20 12:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 128*		*06/24/20 12:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/24/20 12:56*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/24/20 12:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**30**		0.98	0.25	ug/L		06/23/20 08:18	06/24/20 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*43*		*30 - 120*	*06/23/20 08:18*	*06/24/20 15:00*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**8.2**		2.5	1.3	mg/L			06/23/20 00:54	5
Nitrate as N	ND		0.55	0.28	mg/L			06/23/20 00:54	5
Chloride	**600**		50	25	mg/L			06/23/20 01:11	100
Fluoride	ND		2.5	1.3	mg/L			06/23/20 00:54	5
Sulfate	**2000**		50	25	mg/L			06/23/20 01:11	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.4**		0.050	0.025	mg/L		06/25/20 07:57	06/26/20 16:28	1
Calcium	**700**	**B**	0.20	0.10	mg/L		06/25/20 07:57	06/30/20 15:25	2
Iron	**320**		0.10	0.050	mg/L		06/25/20 07:57	06/26/20 16:28	1
Magnesium	**300**		0.020	0.010	mg/L		06/25/20 07:57	06/26/20 16:28	1
Manganese	**5.5**		0.020	0.015	mg/L		06/25/20 07:57	06/26/20 16:28	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Subdrain (N)

Lab Sample ID: 440-267785-7
Matrix: Water
Date Collected: 06/22/20 12:00
Date Received: 06/22/20 17:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	36		0.50	0.25	mg/L		06/25/20 07:57	06/26/20 16:28	1
Sodium	440	B	0.50	0.26	mg/L		06/25/20 07:57	06/26/20 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	12		1.0	0.50	mg/L			06/29/20 18:48	5
Chemical Oxygen Demand	500		20	10	mg/L			06/29/20 15:38	1
Total Dissolved Solids	4900		100	50	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	210		5.0	2.5	mg/L			06/24/20 13:16	50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	980		4.0	4.0	mg/L			06/23/20 08:26	1
Bicarbonate Alkalinity as CaCO3	980		4.0	4.0	mg/L			06/23/20 08:26	1
Carbon Dioxide, Free	310		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: Duplicate

Lab Sample ID: 440-267785-8
Matrix: Water
Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 13:25	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 13:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 13:25	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 13:25	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 13:25	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 13:25	1
Acetone	ND		20	10	ug/L			06/24/20 13:25	1
Acetonitrile	ND		20	10	ug/L			06/24/20 13:25	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 13:25	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 13:25	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 13:25	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 13:25	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 13:25	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 13:25	1

Client Sample ID: Duplicate

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-8
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	0.25	ug/L			06/24/20 13:25	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 13:25	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 13:25	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 13:25	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 13:25	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 13:25	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 13:25	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 13:25	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 13:25	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 13:25	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 13:25	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Propionitrile	ND		20	10	ug/L			06/24/20 13:25	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 13:25	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 13:25	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 13:25	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 13:25	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 13:25	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 13:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 13:25	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 13:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 13:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/24/20 13:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/24/20 13:25*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*06/24/20 13:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.44**	**J**	0.99	0.25	ug/L		06/23/20 08:18	06/24/20 15:21	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Duplicate

Lab Sample ID: 440-267785-8
Matrix: Water

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	39		30 - 120	06/23/20 08:18	06/24/20 15:21	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 01:28	1
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 01:28	1
Chloride	**8.2**		0.50	0.25	mg/L			06/23/20 01:28	1
Fluoride	**1.5**		0.50	0.25	mg/L			06/23/20 01:28	1
Sulfate	**1700**		25	13	mg/L			06/23/20 01:45	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.0**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:36	1
Calcium	**280**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:36	1
Iron	**2.4**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:36	1
Magnesium	**180**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:36	1
Manganese	**0.55**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:36	1
Potassium	**13**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:36	1
Sodium	**210**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**11**		1.0	0.50	mg/L			06/29/20 18:54	5
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:38	1
Total Dissolved Solids	**2700**		20	10	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:52	1
Total Organic Carbon	**3.3**		0.10	0.050	mg/L			06/24/20 08:41	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**380**		4.0	4.0	mg/L			06/23/20 08:35	1
Bicarbonate Alkalinity as CaCO3	**380**		4.0	4.0	mg/L			06/23/20 08:35	1
Carbon Dioxide, Free	**55**		2.0	2.0	mg/L			06/28/20 16:13	1

Client Sample ID: Field BLank

Lab Sample ID: 440-267785-9
Matrix: Water

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 13:53	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 13:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 13:53	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 13:53	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Field BLank

Lab Sample ID: 440-267785-9

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 13:53	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 13:53	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 13:53	1
Acetone	ND		20	10	ug/L			06/24/20 13:53	1
Acetonitrile	ND		20	10	ug/L			06/24/20 13:53	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 13:53	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 13:53	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 13:53	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 13:53	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 13:53	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 13:53	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 13:53	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 13:53	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 13:53	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 13:53	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 13:53	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 13:53	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 13:53	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 13:53	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 13:53	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Propionitrile	ND		20	10	ug/L			06/24/20 13:53	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 13:53	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 13:53	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 13:53	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 13:53	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 13:53	1

Client Sample ID: Field BLank

Lab Sample ID: 440-267785-9

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 13:53	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 13:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 13:53	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 13:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 13:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*80 - 128*		*06/24/20 13:53*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/24/20 13:53*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/24/20 13:53*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-267785-10

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

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	0.40	ug/L			06/24/20 14:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 14:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 14:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 14:20	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 14:20	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 14:20	1
Acetone	ND		20	10	ug/L			06/24/20 14:20	1
Acetonitrile	ND		20	10	ug/L			06/24/20 14:20	1
Acrolein	ND	*	5.0	2.5	ug/L			06/24/20 14:20	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 14:20	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 14:20	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 14:20	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 14:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1

Client Sample Results

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

Job ID: 440-267785-1

Client Sample ID: Trip Blank

Date Collected: 06/22/20 00:01
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 14:20	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 14:20	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 14:20	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 14:20	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 14:20	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 14:20	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 14:20	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 14:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 14:20	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 14:20	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Propionitrile	ND		20	10	ug/L			06/24/20 14:20	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 14:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 14:20	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 14:20	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 14:20	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 14:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 14:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 14:20	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 14:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 14:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*118*		*80 - 128*		*06/24/20 14:20*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/24/20 14:20*	*1*
Dibromofluoromethane (Surr)	*83*		*76 - 132*		*06/24/20 14:20*	*1*

Method Summary

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

Job ID: 440-267785-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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 4500 CO2 C	Free Carbon Dioxide	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-267785-1

Client Sample ID: CM-9R3

Date Collected: 06/22/20 10:47
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-1

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	10 mL	10 mL	614081	06/24/20 09:11	TCN	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 12:53	HN	TAL IRV
Total/NA	Analysis	300.0		2			613759	06/22/20 20:53	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613760	06/22/20 20:53	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613760	06/22/20 21:10	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 16:59	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 17:44	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:37	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:09	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 07:13	YZ	TAL IRV

Client Sample ID: CM-10R

Date Collected: 06/22/20 09:16
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-2

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	10 mL	10 mL	614081	06/24/20 09:39	TCN	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 13:14	HN	TAL IRV
Total/NA	Analysis	300.0		1			613759	06/22/20 21:27	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613760	06/22/20 21:27	NTN	TAL IRV
Total/NA	Analysis	300.0		50			613760	06/22/20 21:45	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:11	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 17:49	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:37	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:19	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 07:27	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267785-1

Client Sample ID: CM-11R

Lab Sample ID: 440-267785-3

Date Collected: 06/22/20 12:27
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 11:04	TCN	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 13:35	HN	TAL IRV
Total/NA	Analysis	300.0		2			613759	06/22/20 22:02	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613760	06/22/20 22:02	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613760	06/22/20 22:19	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:14	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		2			615018	06/30/20 15:35	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 17:55	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:37	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:25	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 08:56	YZ	TAL IRV

Client Sample ID: MW-6

Lab Sample ID: 440-267785-4

Date Collected: 06/22/20 11:17
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 11:32	TCN	TAL IRV
Total/NA	Prep	3520C			1005 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 13:56	HN	TAL IRV
Total/NA	Analysis	300.0		2			613759	06/22/20 22:36	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613760	06/22/20 22:36	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613760	06/22/20 23:28	NTN	TAL IRV
Total/NA	Analysis	300.0		10			613952	06/23/20 14:00	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:26	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 18:09	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:37	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:36	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		10	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 09:13	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267785-1

Client Sample ID: MW-14

Date Collected: 06/22/20 08:55
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-5

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	10 mL	10 mL	614081	06/24/20 12:00	TCN	TAL IRV
Total/NA	Prep	3520C			1005 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 14:18	HN	TAL IRV
Total/NA	Analysis	300.0		1			613759	06/22/20 23:45	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613760	06/22/20 23:45	NTN	TAL IRV
Total/NA	Analysis	300.0		10	5 mL	1.0 mL	613952	06/23/20 14:17	NTN	TAL IRV
Total/NA	Analysis	300.0		200			613952	06/23/20 19:48	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:30	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 18:15	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:38	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:45	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 09:30	YZ	TAL IRV

Client Sample ID: PZ-2

Date Collected: 06/22/20 13:14
Date Received: 06/22/20 17:00

Lab Sample ID: 440-267785-6

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	10 mL	10 mL	614081	06/24/20 12:28	TCN	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 14:39	HN	TAL IRV
Total/NA	Analysis	300.0		10			613759	06/23/20 00:19	NTN	TAL IRV
Total/NA	Analysis	300.0		10			613760	06/23/20 00:19	NTN	TAL IRV
Total/NA	Analysis	300.0		200			613760	06/23/20 00:36	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:33	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		5			615018	06/30/20 15:37	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 18:43	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:38	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 07:59	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	614221	06/24/20 16:47	HTL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 13:02	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267785-1

Client Sample ID: Subdrain (N)

Lab Sample ID: 440-267785-7
Date Collected: 06/22/20 12:00
Matrix: Water
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 12:56	TCN	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 15:00	HN	TAL IRV
Total/NA	Analysis	300.0		5			613759	06/23/20 00:54	NTN	TAL IRV
Total/NA	Analysis	300.0		5			613760	06/23/20 00:54	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613760	06/23/20 01:11	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614209	06/25/20 07:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614569	06/26/20 16:28	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614209	06/25/20 07:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		2			615018	06/30/20 15:25	KE	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 18:48	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:38	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 08:26	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		50	100 mL	100 mL	614259	06/24/20 13:16	YZ	TAL IRV

Client Sample ID: Duplicate

Lab Sample ID: 440-267785-8
Date Collected: 06/22/20 00:01
Matrix: Water
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 13:25	TCN	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	613922	06/23/20 08:18	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614154	06/24/20 15:21	HN	TAL IRV
Total/NA	Analysis	300.0		1			613759	06/23/20 01:28	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613760	06/23/20 01:28	NTN	TAL IRV
Total/NA	Analysis	300.0		50			613760	06/23/20 01:45	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:36	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 18:54	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614799	06/29/20 15:38	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614066	06/23/20 08:35	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	614652	06/28/20 16:13	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614015	06/23/20 14:52	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 08:41	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267785-1

Client Sample ID: Field BLank

Lab Sample ID: 440-267785-9
Date Collected: 06/22/20 00:01
Matrix: Water
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 13:53	TCN	TAL IRV

Client Sample ID: Trip Blank

Lab Sample ID: 440-267785-10
Date Collected: 06/22/20 00:01
Matrix: Water
Date Received: 06/22/20 17:00

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	10 mL	10 mL	614081	06/24/20 14:20	TCN	TAL IRV

Laboratory References:

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 440-614081/4
Matrix: Water
Analysis Batch: 614081

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	0.40	ug/L			06/24/20 08:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 08:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 08:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 08:43	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 08:43	1
Acetone	ND		20	10	ug/L			06/24/20 08:43	1
Acetonitrile	ND		20	10	ug/L			06/24/20 08:43	1
Acrolein	ND		5.0	2.5	ug/L			06/24/20 08:43	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 08:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 08:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 08:43	1

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

Lab Sample ID: MB 440-614081/4
Matrix: Water
Analysis Batch: 614081

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	0.25	ug/L			06/24/20 08:43	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 08:43	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Propionitrile	ND		20	10	ug/L			06/24/20 08:43	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 08:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 08:43	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 08:43	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 08:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 08:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 08:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 08:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 08:43*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 08:43*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*06/24/20 08:43*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/24/20 08:43*	*1*

Lab Sample ID: LCS 440-614081/1002
Matrix: Water
Analysis Batch: 614081

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	25.0	23.2		ug/L		93	63 - 130
1,1,1,2-Tetrachloroethane	25.0	21.6		ug/L		86	60 - 141
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	63 - 130
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	22.2		ug/L		89	64 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	22.6		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	52 - 140
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	21.5		ug/L		86	57 - 138
1,2-Dichloropropane	25.0	22.5		ug/L		90	67 - 130
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130

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

Lab Sample ID: LCS 440-614081/1002
Matrix: Water
Analysis Batch: 614081

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	68 - 141
2-Hexanone	125	117		ug/L		94	10 - 150
Acetone	125	104		ug/L		83	10 - 150
Acetonitrile	250	215		ug/L		86	49 - 142
Acrolein	24.7	40.8	*	ug/L		165	10 - 145
Benzene	25.0	22.5		ug/L		90	68 - 130
Bromoform	25.0	20.1		ug/L		81	60 - 148
Bromomethane	25.0	21.9		ug/L		88	64 - 139
Carbon disulfide	25.0	22.7		ug/L		91	52 - 136
Carbon tetrachloride	25.0	22.6		ug/L		90	60 - 150
Chlorobenzene	25.0	22.0		ug/L		88	70 - 130
Bromochloromethane	25.0	21.9		ug/L		88	70 - 130
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	22.4		ug/L		90	70 - 130
Chloromethane	25.0	25.2		ug/L		101	47 - 140
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	70 - 133
cis-1,3-Dichloropropene	25.0	22.5		ug/L		90	70 - 133
Dibromochloromethane	25.0	23.0		ug/L		92	69 - 145
Dibromomethane	25.0	22.6		ug/L		90	70 - 130
Bromodichloromethane	25.0	22.6		ug/L		90	70 - 132
Dichlorodifluoromethane	25.0	31.1		ug/L		125	29 - 150
Ethylbenzene	25.0	22.2		ug/L		89	70 - 130
m,p-Xylene	25.0	21.3		ug/L		85	70 - 130
Methylene Chloride	25.0	21.1		ug/L		85	52 - 130
Methyl tert-butyl ether	25.0	20.7		ug/L		83	63 - 131
Naphthalene	25.0	23.1		ug/L		92	60 - 140
o-Xylene	25.0	21.6		ug/L		86	70 - 130
Styrene	25.0	21.9		ug/L		88	70 - 134
t-Butanol	250	239		ug/L		96	70 - 130
Tetrachloroethene	25.0	23.7		ug/L		95	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	70 - 130
trans-1,3-Dichloropropene	25.0	22.5		ug/L		90	70 - 132
Trichloroethene	25.0	22.8		ug/L		91	70 - 130
Trichlorofluoromethane	25.0	25.2		ug/L		101	60 - 150
Vinyl acetate	25.0	27.4		ug/L		110	48 - 140
Vinyl chloride	25.0	26.0		ug/L		104	59 - 133
1,2-Dibromoethane (EDB)	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	112		ug/L		89	44 - 150
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*

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

Lab Sample ID: 440-267785-1 MS
Matrix: Water
Analysis Batch: 614081

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
1,2,3-Trichloropropane	ND		10.0	11.2		ug/L		112	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	60 - 149
1,1,1-Trichloroethane	ND		10.0	11.1		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	11.1		ug/L		111	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.9		ug/L		109	70 - 130
1,1-Dichloroethane	ND		10.0	11.0		ug/L		110	65 - 130
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130
1,1-Dichloropropene	ND		10.0	11.8		ug/L		118	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.75		ug/L		98	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	10.8		ug/L		108	48 - 140
1,2-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,2-Dichloroethane	ND		10.0	10.0		ug/L		100	56 - 146
1,2-Dichloropropane	ND		10.0	10.5		ug/L		105	69 - 130
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130
1,3-Dichloropropane	ND		10.0	11.1		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		10.0	11.2		ug/L		112	70 - 130
2,2-Dichloropropane	ND		10.0	12.9		ug/L		129	69 - 138
2-Hexanone	ND		50.0	63.4		ug/L		127	10 - 150
Acetone	ND		50.0	58.9		ug/L		118	10 - 150
Acetonitrile	ND		100	103		ug/L		103	37 - 140
Acrolein	ND	F1 *	9.88	33.4	F1	ug/L		338	10 - 147
Benzene	ND		10.0	10.8		ug/L		108	66 - 130
Bromoform	ND		10.0	10.0		ug/L		100	59 - 150
Bromomethane	ND		10.0	10.4		ug/L		104	62 - 131
Carbon disulfide	ND		10.0	11.0		ug/L		110	49 - 140
Carbon tetrachloride	ND		10.0	11.2		ug/L		112	60 - 150
Chlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	ND		10.0	10.2		ug/L		102	70 - 130
Chloroethane	ND		10.0	10.4		ug/L		104	68 - 130
Chloroform	ND		10.0	10.8		ug/L		108	70 - 130
Chloromethane	ND		10.0	11.5		ug/L		115	39 - 144
cis-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	70 - 133
Dibromochloromethane	ND		10.0	10.6		ug/L		106	70 - 148
Dibromomethane	ND		10.0	10.4		ug/L		104	70 - 130
Bromodichloromethane	ND		10.0	10.3		ug/L		103	70 - 138
Dichlorodifluoromethane	ND	F1	10.0	14.6	F1	ug/L		146	25 - 142
Ethylbenzene	ND		10.0	11.3		ug/L		113	70 - 130
m,p-Xylene	ND		10.0	11.1		ug/L		111	70 - 133
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130
Methyl tert-butyl ether	ND		10.0	9.91		ug/L		99	70 - 130
Naphthalene	ND		10.0	9.85		ug/L		98	60 - 140
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133
Styrene	ND		10.0	10.7		ug/L		107	29 - 150
t-Butanol	ND		100	107		ug/L		107	70 - 130
Tetrachloroethene	ND		10.0	11.5		ug/L		115	70 - 137
Toluene	ND		10.0	11.6		ug/L		116	70 - 130
trans-1,2-Dichloroethene	ND		10.0	11.0		ug/L		110	70 - 130

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

Lab Sample ID: 440-267785-1 MS
Matrix: Water
Analysis Batch: 614081

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
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138
Trichloroethene	ND		10.0	10.6		ug/L		106	70 - 130
Trichlorofluoromethane	ND		10.0	12.2		ug/L		122	60 - 150
Vinyl acetate	ND	F1	10.0	22.6	F1	ug/L		226	23 - 150
Vinyl chloride	ND		10.0	12.7		ug/L		127	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	11.0		ug/L		110	70 - 131
2-Butanone (MEK)	ND		50.0	60.1		ug/L		120	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	61.0		ug/L		122	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: 440-267785-1 MSD
Matrix: Water
Analysis Batch: 614081

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
1,2,3-Trichloropropane	ND		10.0	12.4		ug/L		124	60 - 130	10	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149	5	20
1,1,1-Trichloroethane	ND		10.0	11.0		ug/L		110	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.3		ug/L		123	63 - 130	10	30
1,1,2-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130	1	25
1,1-Dichloroethane	ND		10.0	10.9		ug/L		109	65 - 130	0	20
1,1-Dichloroethene	ND		10.0	11.3		ug/L		113	70 - 130	5	20
1,1-Dichloropropene	ND		10.0	12.0		ug/L		120	64 - 130	2	20
1,2,4-Trichlorobenzene	ND		10.0	9.59		ug/L		96	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.7		ug/L		107	48 - 140	0	30
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	10.1		ug/L		101	56 - 146	1	20
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	ND		10.0	10.8		ug/L		108	70 - 130	3	25
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
2,2-Dichloropropane	ND		10.0	12.8		ug/L		128	69 - 138	1	25
2-Hexanone	ND		50.0	61.2		ug/L		122	10 - 150	4	35
Acetone	ND		50.0	57.8		ug/L		116	10 - 150	2	35
Acetonitrile	ND		100	107		ug/L		107	37 - 140	4	40
Acrolein	ND	F1 *	9.88	35.3	F1	ug/L		358	10 - 147	6	40
Benzene	ND		10.0	10.7		ug/L		107	66 - 130	1	20
Bromoform	ND		10.0	9.77		ug/L		98	59 - 150	2	25
Bromomethane	ND		10.0	10.7		ug/L		107	62 - 131	3	25
Carbon disulfide	ND		10.0	11.0		ug/L		110	49 - 140	1	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
Chlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130	1	20
Bromochloromethane	ND		10.0	10.6		ug/L		106	70 - 130	4	25
Chloroethane	ND		10.0	10.5		ug/L		105	68 - 130	1	25

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

Lab Sample ID: 440-267785-1 MSD
Matrix: Water
Analysis Batch: 614081

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
Chloroform	ND		10.0	10.9		ug/L		109	70 - 130	0	20
Chloromethane	ND		10.0	12.0		ug/L		120	39 - 144	4	25
cis-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	70 - 133	0	20
Dibromochloromethane	ND		10.0	10.4		ug/L		104	70 - 148	2	25
Dibromomethane	ND		10.0	10.6		ug/L		106	70 - 130	2	25
Bromodichloromethane	ND		10.0	10.5		ug/L		105	70 - 138	2	20
Dichlorodifluoromethane	ND	F1	10.0	15.3	F1	ug/L		153	25 - 142	5	30
Ethylbenzene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
m,p-Xylene	ND		10.0	10.9		ug/L		109	70 - 133	2	25
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130	0	20
Methyl tert-butyl ether	ND		10.0	10.2		ug/L		102	70 - 130	3	25
Naphthalene	ND		10.0	9.89		ug/L		99	60 - 140	0	30
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	1	20
Styrene	ND		10.0	10.4		ug/L		104	29 - 150	3	35
t-Butanol	ND		100	110		ug/L		110	70 - 130	3	25
Tetrachloroethene	ND		10.0	11.3		ug/L		113	70 - 137	1	20
Toluene	ND		10.0	11.3		ug/L		113	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130	1	20
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138	1	25
Trichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	0	20
Trichlorofluoromethane	ND		10.0	12.8		ug/L		128	60 - 150	5	25
Vinyl acetate	ND	F1	10.0	22.7	F1	ug/L		227	23 - 150	0	30
Vinyl chloride	ND		10.0	12.8		ug/L		128	50 - 137	1	30
1,2-Dibromoethane (EDB)	ND		10.0	10.8		ug/L		108	70 - 131	1	25
2-Butanone (MEK)	ND		50.0	60.9		ug/L		122	48 - 140	1	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	59.3		ug/L		119	52 - 150	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

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

Lab Sample ID: MB 440-613922/1-A
Matrix: Water
Analysis Batch: 614154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 613922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/23/20 08:18	06/24/20 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*56*		*30 - 120*	*06/23/20 08:18*	*06/24/20 11:34*	*1*

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

Lab Sample ID: LCS 440-613922/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614154 — **Prep Batch: 613922**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.15		ug/L		57	35 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*53*		*30 - 120*

Lab Sample ID: LCSD 440-613922/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614154 — **Prep Batch: 613922**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.00	1.13		ug/L		56	35 - 120	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*51*		*30 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-613759/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/22/20 11:59	1

Lab Sample ID: LCS 440-613759/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.17		mg/L		104	90 - 110

Lab Sample ID: 440-267765-F-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613759

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND	F1	1.13	1.56	F1	mg/L		138	80 - 120

Lab Sample ID: 440-267765-F-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613759

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND	F1	1.13	1.58	F1	mg/L		140	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 440-613760/6
Matrix: Water
Analysis Batch: 613760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/22/20 11:59	1
Chloride	ND		0.50	0.25	mg/L			06/22/20 11:59	1
Fluoride	ND		0.50	0.25	mg/L			06/22/20 11:59	1
Sulfate	ND		0.50	0.25	mg/L			06/22/20 11:59	1

Lab Sample ID: LCS 440-613760/5
Matrix: Water
Analysis Batch: 613760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.91		mg/L		98	90 - 110
Chloride	5.00	4.65		mg/L		93	90 - 110
Fluoride	5.00	4.79		mg/L		96	90 - 110
Sulfate	5.00	5.01		mg/L		100	90 - 110

Lab Sample ID: 440-267765-F-1 MS
Matrix: Water
Analysis Batch: 613760

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
Bromide	ND		5.00	5.02		mg/L		100	80 - 120
Chloride	71	E	5.00	76.9	E 4	mg/L		125	80 - 120
Fluoride	0.87		5.00	5.63		mg/L		95	80 - 120
Sulfate	81	E	5.00	87.5	E 4	mg/L		131	80 - 120

Lab Sample ID: 440-267765-F-1 MSD
Matrix: Water
Analysis Batch: 613760

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
Bromide	ND		5.00	5.11		mg/L		102	80 - 120	2	20
Chloride	71	E	5.00	77.0	E 4	mg/L		126	80 - 120	0	20
Fluoride	0.87		5.00	5.78		mg/L		98	80 - 120	3	20
Sulfate	81	E	5.00	88.0	E 4	mg/L		141	80 - 120	1	20

Lab Sample ID: MB 440-613952/6
Matrix: Water
Analysis Batch: 613952

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 12:35	1
Chloride	ND		0.50	0.25	mg/L			06/23/20 12:35	1
Fluoride	ND		0.50	0.25	mg/L			06/23/20 12:35	1
Sulfate	ND		0.50	0.25	mg/L			06/23/20 12:35	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-613952/5
Matrix: Water
Analysis Batch: 613952

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.80		mg/L		96	90 - 110
Chloride	5.00	4.61		mg/L		92	90 - 110
Fluoride	5.00	4.72		mg/L		94	90 - 110
Sulfate	5.00	5.15		mg/L		103	90 - 110

Lab Sample ID: 440-267786-A-1 MS
Matrix: Water
Analysis Batch: 613952

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
Bromide	ND		50.0	57.1		mg/L		114	80 - 120
Chloride	1700	E	50.0	1810	E 4	mg/L		129	80 - 120
Fluoride	ND		50.0	49.1		mg/L		98	80 - 120
Sulfate	1400	E	50.0	1450	E 4	mg/L		154	80 - 120

Lab Sample ID: 440-267786-A-1 MSD
Matrix: Water
Analysis Batch: 613952

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
Bromide	ND		50.0	57.2		mg/L		114	80 - 120	0	20
Chloride	1700	E	50.0	1800	E 4	mg/L		119	80 - 120	0	20
Fluoride	ND		50.0	49.6		mg/L		99	80 - 120	1	20
Sulfate	1400	E	50.0	1450	E 4	mg/L		151	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-614117/1-A
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 16:49	1
Calcium	0.0830	J	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:49	1
Iron	ND		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:49	1
Magnesium	ND		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 16:49	1
Manganese	ND		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 16:49	1
Potassium	ND		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 16:49	1
Sodium	ND		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 16:49	1

Lab Sample ID: LCS 440-614117/2-A
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.999		mg/L		100	80 - 120
Calcium	5.00	5.04		mg/L		101	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Magnesium	5.00	4.91		mg/L		98	80 - 120
Manganese	1.00	0.996		mg/L		100	80 - 120

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

Lab Sample ID: LCS 440-614117/2-A
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.95		mg/L		100	80 - 120
Sodium	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: 440-267785-1 MS
Matrix: Water
Analysis Batch: 614593

Client Sample ID: CM-9R3
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.7		1.00	2.66		mg/L		100	75 - 125
Calcium	360	B	5.00	352	4	mg/L		-96	75 - 125
Iron	15		1.00	16.0	4	mg/L		62	75 - 125
Magnesium	230		5.00	225	4	mg/L		-94	75 - 125
Manganese	2.6		1.00	3.51		mg/L		92	75 - 125
Potassium	14		10.0	24.3		mg/L		104	75 - 125
Sodium	400		10.0	403	4	mg/L		12	75 - 125

Lab Sample ID: 440-267785-1 MSD
Matrix: Water
Analysis Batch: 614593

Client Sample ID: CM-9R3
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	1.7		1.00	2.76		mg/L		110	75 - 125	4	20
Calcium	360	B	5.00	372	4	mg/L		312	75 - 125	6	20
Iron	15		1.00	17.1	4	mg/L		167	75 - 125	6	20
Magnesium	230		5.00	247	4	mg/L		342	75 - 125	9	20
Manganese	2.6		1.00	3.65		mg/L		105	75 - 125	4	20
Potassium	14		10.0	25.1		mg/L		113	75 - 125	4	20
Sodium	400		10.0	424	4	mg/L		216	75 - 125	5	20

Lab Sample ID: MB 440-614209/1-A
Matrix: Water
Analysis Batch: 614569

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/25/20 07:57	06/26/20 16:20	1
Iron	ND		0.10	0.050	mg/L		06/25/20 07:57	06/26/20 16:20	1
Magnesium	ND		0.020	0.010	mg/L		06/25/20 07:57	06/26/20 16:20	1
Manganese	ND		0.020	0.015	mg/L		06/25/20 07:57	06/26/20 16:20	1
Potassium	ND		0.50	0.25	mg/L		06/25/20 07:57	06/26/20 16:20	1
Sodium	1.02		0.50	0.26	mg/L		06/25/20 07:57	06/26/20 16:20	1

Lab Sample ID: MB 440-614209/1-A
Matrix: Water
Analysis Batch: 615018

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	0.106		0.10	0.050	mg/L		06/25/20 07:57	06/30/20 15:18	1

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

Lab Sample ID: LCS 440-614209/2-A
Matrix: Water
Analysis Batch: 614569

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.01		mg/L		101	80 - 120
Iron	1.00	1.07		mg/L		107	80 - 120
Magnesium	5.00	4.93		mg/L		99	80 - 120
Manganese	1.00	1.00		mg/L		100	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Sodium	10.0	11.1		mg/L		111	80 - 120

Lab Sample ID: LCS 440-614209/2-A
Matrix: Water
Analysis Batch: 615018

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5.00	5.93		mg/L		119	80 - 120

Lab Sample ID: 440-267785-7 MS
Matrix: Water
Analysis Batch: 614569

Client Sample ID: Subdrain (N)
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	2.4		1.00	3.39		mg/L		98	75 - 125
Iron	320		1.00	303	4	mg/L		-1670	75 - 125
Magnesium	300		5.00	292	4	mg/L		-86	75 - 125
Manganese	5.5		1.00	6.28	4	mg/L		82	75 - 125
Potassium	36		10.0	45.2		mg/L		96	75 - 125
Sodium	440	B	10.0	431	4	mg/L		-87	75 - 125

Lab Sample ID: 440-267785-7 MS
Matrix: Water
Analysis Batch: 615018

Client Sample ID: Subdrain (N)
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	700	B	5.00	677	4	mg/L		-540	75 - 125

Lab Sample ID: 440-267785-7 MSD
Matrix: Water
Analysis Batch: 614569

Client Sample ID: Subdrain (N)
Prep Type: Total Recoverable
Prep Batch: 614209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	2.4		1.00	3.44		mg/L		103	75 - 125	1	20
Iron	320		1.00	308	4	mg/L		-1140	75 - 125	2	20
Magnesium	300		5.00	298	4	mg/L		32	75 - 125	2	20
Manganese	5.5		1.00	6.40	4	mg/L		94	75 - 125	2	20
Potassium	36		10.0	45.9		mg/L		103	75 - 125	2	20
Sodium	440	B	10.0	441	4	mg/L		10	75 - 125	2	20

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

Lab Sample ID: 440-267785-7 MSD — **Client Sample ID: Subdrain (N)**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 615018 — **Prep Batch: 614209**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	700	B	5.00	706	4	mg/L		40	75 - 125	4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-614913/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			06/29/20 15:54	1

Lab Sample ID: LCS 440-614913/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.19		mg/L		104	90 - 110

Lab Sample ID: MRL 440-614913/9 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.228		mg/L		114	50 - 150

Lab Sample ID: 440-267785-5 MS — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	ND	F1	5.00	6.01	F1	mg/L		120	90 - 110

Lab Sample ID: 440-267785-5 MSD — **Client Sample ID: MW-14**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

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	5.31		mg/L		106	90 - 110	12	15

Method: 410.4 - COD

Lab Sample ID: MB 440-614799/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 15:35	1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 440-614799/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand			200	198		mg/L		99	90 - 110		

Lab Sample ID: 440-267785-1 MS — **Client Sample ID: CM-9R3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	ND		200	203		mg/L		101	70 - 120		

Lab Sample ID: 440-267785-1 MSD — **Client Sample ID: CM-9R3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		200	198		mg/L		99	70 - 120	2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-614066/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614066

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/23/20 06:38	1
Bicarbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/23/20 06:38	1

Lab Sample ID: LCS 440-614066/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614066

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			75.8	76.6		mg/L		101	80 - 120		

Lab Sample ID: 440-267785-6 DU — **Client Sample ID: PZ-2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614066

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	320			324		mg/L				0.3	20
Bicarbonate Alkalinity as CaCO3	320			324		mg/L				0.3	20

Lab Sample ID: 440-267785-8 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614066

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	380			384		mg/L				0.2	20
Bicarbonate Alkalinity as CaCO3	380			384		mg/L				0.2	20

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

Lab Sample ID: MB 440-614221/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			06/24/20 16:47	1

Lab Sample ID: LCS 440-614221/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614221

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: 440-267861-F-11 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614221

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1600		1580		mg/L		0.6	5

Lab Sample ID: MB 440-614326/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			06/25/20 10:15	1

Lab Sample ID: LCS 440-614326/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1060		mg/L		106	90 - 110

Lab Sample ID: 440-267796-B-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	710		727		mg/L		3	5

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 440-614652/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614652

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			06/28/20 16:13	1

Method: SM 4500 CO2 C - Free Carbon Dioxide (Continued)

Lab Sample ID: 440-267785-1 DU — **Client Sample ID: CM-9R3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614652

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	70			70.4		mg/L				0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-614015/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			06/23/20 14:51	1

Lab Sample ID: LCS 440-614015/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614015

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Sulfide			0.501	0.505		mg/L		101	80 - 120		

Lab Sample ID: 440-267785-1 MS — **Client Sample ID: CM-9R3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Sulfide	ND	F1	0.501	0.345	F1	mg/L		69	70 - 130		

Lab Sample ID: 440-267785-1 MSD — **Client Sample ID: CM-9R3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	ND	F1	0.501	0.310	F1	mg/L		62	70 - 130	11	30

Method: SM 5310C - TOC

Lab Sample ID: MB 440-614259/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			06/24/20 06:43	1

Lab Sample ID: LCS 440-614259/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614259

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon			5.00	4.86		mg/L		97	85 - 115		

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MRL 440-614259/6
Matrix: Water
Analysis Batch: 614259

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	0.0753	J	mg/L		75	50 - 150		

Lab Sample ID: 440-267832-G-5 MS
Matrix: Water
Analysis Batch: 614259

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	1.7		5.00	7.12		mg/L		108	85 - 115		

Lab Sample ID: 440-267832-G-5 MSD
Matrix: Water
Analysis Batch: 614259

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	1.7		5.00	7.02		mg/L		106	85 - 115	1	20

QC Association Summary

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

Job ID: 440-267785-1

GC/MS VOA

Analysis Batch: 614081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	8260B	
440-267785-2	CM-10R	Total/NA	Water	8260B	
440-267785-3	CM-11R	Total/NA	Water	8260B	
440-267785-4	MW-6	Total/NA	Water	8260B	
440-267785-5	MW-14	Total/NA	Water	8260B	
440-267785-6	PZ-2	Total/NA	Water	8260B	
440-267785-7	Subdrain (N)	Total/NA	Water	8260B	
440-267785-8	Duplicate	Total/NA	Water	8260B	
440-267785-9	Field BLank	Total/NA	Water	8260B	
440-267785-10	Trip Blank	Total/NA	Water	8260B	
MB 440-614081/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614081/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267785-1 MS	CM-9R3	Total/NA	Water	8260B	
440-267785-1 MSD	CM-9R3	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 613922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	3520C	
440-267785-2	CM-10R	Total/NA	Water	3520C	
440-267785-3	CM-11R	Total/NA	Water	3520C	
440-267785-4	MW-6	Total/NA	Water	3520C	
440-267785-5	MW-14	Total/NA	Water	3520C	
440-267785-6	PZ-2	Total/NA	Water	3520C	
440-267785-7	Subdrain (N)	Total/NA	Water	3520C	
440-267785-8	Duplicate	Total/NA	Water	3520C	
MB 440-613922/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-613922/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-613922/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 614154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	8270C	613922
440-267785-2	CM-10R	Total/NA	Water	8270C	613922
440-267785-3	CM-11R	Total/NA	Water	8270C	613922
440-267785-4	MW-6	Total/NA	Water	8270C	613922
440-267785-5	MW-14	Total/NA	Water	8270C	613922
440-267785-6	PZ-2	Total/NA	Water	8270C	613922
440-267785-7	Subdrain (N)	Total/NA	Water	8270C	613922
440-267785-8	Duplicate	Total/NA	Water	8270C	613922
MB 440-613922/1-A	Method Blank	Total/NA	Water	8270C	613922
LCS 440-613922/2-A	Lab Control Sample	Total/NA	Water	8270C	613922
LCSD 440-613922/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	613922

HPLC/IC

Analysis Batch: 613759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	300.0	
440-267785-2	CM-10R	Total/NA	Water	300.0	
440-267785-3	CM-11R	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 613759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-4	MW-6	Total/NA	Water	300.0	
440-267785-5	MW-14	Total/NA	Water	300.0	
440-267785-6	PZ-2	Total/NA	Water	300.0	
440-267785-7	Subdrain (N)	Total/NA	Water	300.0	
440-267785-8	Duplicate	Total/NA	Water	300.0	
MB 440-613759/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613759/5	Lab Control Sample	Total/NA	Water	300.0	
440-267765-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-267765-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 613760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	300.0	
440-267785-1	CM-9R3	Total/NA	Water	300.0	
440-267785-2	CM-10R	Total/NA	Water	300.0	
440-267785-2	CM-10R	Total/NA	Water	300.0	
440-267785-3	CM-11R	Total/NA	Water	300.0	
440-267785-3	CM-11R	Total/NA	Water	300.0	
440-267785-4	MW-6	Total/NA	Water	300.0	
440-267785-4	MW-6	Total/NA	Water	300.0	
440-267785-5	MW-14	Total/NA	Water	300.0	
440-267785-6	PZ-2	Total/NA	Water	300.0	
440-267785-6	PZ-2	Total/NA	Water	300.0	
440-267785-7	Subdrain (N)	Total/NA	Water	300.0	
440-267785-7	Subdrain (N)	Total/NA	Water	300.0	
440-267785-8	Duplicate	Total/NA	Water	300.0	
440-267785-8	Duplicate	Total/NA	Water	300.0	
MB 440-613760/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613760/5	Lab Control Sample	Total/NA	Water	300.0	
440-267765-F-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-267765-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 613952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-4	MW-6	Total/NA	Water	300.0	
440-267785-5	MW-14	Total/NA	Water	300.0	
440-267785-5	MW-14	Total/NA	Water	300.0	
MB 440-613952/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613952/5	Lab Control Sample	Total/NA	Water	300.0	
440-267786-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-267786-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 614117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total Recoverable	Water	3005A	
440-267785-2	CM-10R	Total Recoverable	Water	3005A	
440-267785-3	CM-11R	Total Recoverable	Water	3005A	
440-267785-4	MW-6	Total Recoverable	Water	3005A	
440-267785-5	MW-14	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 614117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-6	PZ-2	Total Recoverable	Water	3005A	
440-267785-8	Duplicate	Total Recoverable	Water	3005A	
MB 440-614117/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-614117/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267785-1 MS	CM-9R3	Total Recoverable	Water	3005A	
440-267785-1 MSD	CM-9R3	Total Recoverable	Water	3005A	

Prep Batch: 614209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-7	Subdrain (N)	Total Recoverable	Water	3005A	
MB 440-614209/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-614209/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267785-7 MS	Subdrain (N)	Total Recoverable	Water	3005A	
440-267785-7 MSD	Subdrain (N)	Total Recoverable	Water	3005A	

Analysis Batch: 614569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-7	Subdrain (N)	Total Recoverable	Water	6010B	614209
MB 440-614209/1-A	Method Blank	Total Recoverable	Water	6010B	614209
LCS 440-614209/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614209
440-267785-7 MS	Subdrain (N)	Total Recoverable	Water	6010B	614209
440-267785-7 MSD	Subdrain (N)	Total Recoverable	Water	6010B	614209

Analysis Batch: 614593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total Recoverable	Water	6010B	614117
440-267785-2	CM-10R	Total Recoverable	Water	6010B	614117
440-267785-3	CM-11R	Total Recoverable	Water	6010B	614117
440-267785-4	MW-6	Total Recoverable	Water	6010B	614117
440-267785-5	MW-14	Total Recoverable	Water	6010B	614117
440-267785-6	PZ-2	Total Recoverable	Water	6010B	614117
440-267785-8	Duplicate	Total Recoverable	Water	6010B	614117
MB 440-614117/1-A	Method Blank	Total Recoverable	Water	6010B	614117
LCS 440-614117/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614117
440-267785-1 MS	CM-9R3	Total Recoverable	Water	6010B	614117
440-267785-1 MSD	CM-9R3	Total Recoverable	Water	6010B	614117

Analysis Batch: 615018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-3	CM-11R	Total Recoverable	Water	6010B	614117
440-267785-6	PZ-2	Total Recoverable	Water	6010B	614117
440-267785-7	Subdrain (N)	Total Recoverable	Water	6010B	614209
MB 440-614209/1-A	Method Blank	Total Recoverable	Water	6010B	614209
LCS 440-614209/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614209
440-267785-7 MS	Subdrain (N)	Total Recoverable	Water	6010B	614209
440-267785-7 MSD	Subdrain (N)	Total Recoverable	Water	6010B	614209

General Chemistry

Analysis Batch: 614015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	SM 4500 S2 D	
440-267785-2	CM-10R	Total/NA	Water	SM 4500 S2 D	
440-267785-3	CM-11R	Total/NA	Water	SM 4500 S2 D	
440-267785-4	MW-6	Total/NA	Water	SM 4500 S2 D	
440-267785-5	MW-14	Total/NA	Water	SM 4500 S2 D	
440-267785-6	PZ-2	Total/NA	Water	SM 4500 S2 D	
440-267785-7	Subdrain (N)	Total/NA	Water	SM 4500 S2 D	
440-267785-8	Duplicate	Total/NA	Water	SM 4500 S2 D	
MB 440-614015/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-614015/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
440-267785-1 MS	CM-9R3	Total/NA	Water	SM 4500 S2 D	
440-267785-1 MSD	CM-9R3	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 614066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	SM 2320B	
440-267785-2	CM-10R	Total/NA	Water	SM 2320B	
440-267785-3	CM-11R	Total/NA	Water	SM 2320B	
440-267785-4	MW-6	Total/NA	Water	SM 2320B	
440-267785-5	MW-14	Total/NA	Water	SM 2320B	
440-267785-6	PZ-2	Total/NA	Water	SM 2320B	
440-267785-7	Subdrain (N)	Total/NA	Water	SM 2320B	
440-267785-8	Duplicate	Total/NA	Water	SM 2320B	
MB 440-614066/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-614066/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-267785-6 DU	PZ-2	Total/NA	Water	SM 2320B	
440-267785-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 614221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	SM 2540C	
440-267785-2	CM-10R	Total/NA	Water	SM 2540C	
440-267785-3	CM-11R	Total/NA	Water	SM 2540C	
440-267785-4	MW-6	Total/NA	Water	SM 2540C	
440-267785-5	MW-14	Total/NA	Water	SM 2540C	
440-267785-6	PZ-2	Total/NA	Water	SM 2540C	
MB 440-614221/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-614221/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-267861-F-11 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 614259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	SM 5310C	
440-267785-2	CM-10R	Total/NA	Water	SM 5310C	
440-267785-3	CM-11R	Total/NA	Water	SM 5310C	
440-267785-4	MW-6	Total/NA	Water	SM 5310C	
440-267785-5	MW-14	Total/NA	Water	SM 5310C	
440-267785-6	PZ-2	Total/NA	Water	SM 5310C	
440-267785-7	Subdrain (N)	Total/NA	Water	SM 5310C	
440-267785-8	Duplicate	Total/NA	Water	SM 5310C	
MB 440-614259/8	Method Blank	Total/NA	Water	SM 5310C	

General Chemistry (Continued)

Analysis Batch: 614259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-614259/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-614259/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-267832-G-5 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-267832-G-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

Analysis Batch: 614326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-7	Subdrain (N)	Total/NA	Water	SM 2540C	
440-267785-8	Duplicate	Total/NA	Water	SM 2540C	
MB 440-614326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-614326/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-267796-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 614652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	SM 4500 CO2 C	
440-267785-2	CM-10R	Total/NA	Water	SM 4500 CO2 C	
440-267785-3	CM-11R	Total/NA	Water	SM 4500 CO2 C	
440-267785-4	MW-6	Total/NA	Water	SM 4500 CO2 C	
440-267785-5	MW-14	Total/NA	Water	SM 4500 CO2 C	
440-267785-6	PZ-2	Total/NA	Water	SM 4500 CO2 C	
440-267785-7	Subdrain (N)	Total/NA	Water	SM 4500 CO2 C	
440-267785-8	Duplicate	Total/NA	Water	SM 4500 CO2 C	
MB 440-614652/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	
440-267785-1 DU	CM-9R3	Total/NA	Water	SM 4500 CO2 C	

Analysis Batch: 614799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	410.4	
440-267785-2	CM-10R	Total/NA	Water	410.4	
440-267785-3	CM-11R	Total/NA	Water	410.4	
440-267785-4	MW-6	Total/NA	Water	410.4	
440-267785-5	MW-14	Total/NA	Water	410.4	
440-267785-6	PZ-2	Total/NA	Water	410.4	
440-267785-7	Subdrain (N)	Total/NA	Water	410.4	
440-267785-8	Duplicate	Total/NA	Water	410.4	
MB 440-614799/3	Method Blank	Total/NA	Water	410.4	
LCS 440-614799/4	Lab Control Sample	Total/NA	Water	410.4	
440-267785-1 MS	CM-9R3	Total/NA	Water	410.4	
440-267785-1 MSD	CM-9R3	Total/NA	Water	410.4	

Analysis Batch: 614913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267785-1	CM-9R3	Total/NA	Water	350.1	
440-267785-2	CM-10R	Total/NA	Water	350.1	
440-267785-3	CM-11R	Total/NA	Water	350.1	
440-267785-4	MW-6	Total/NA	Water	350.1	
440-267785-5	MW-14	Total/NA	Water	350.1	
440-267785-6	PZ-2	Total/NA	Water	350.1	
440-267785-7	Subdrain (N)	Total/NA	Water	350.1	
440-267785-8	Duplicate	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 614913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-614913/10	Method Blank	Total/NA	Water	350.1	
LCS 440-614913/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-614913/9	Lab Control Sample	Total/NA	Water	350.1	
440-267785-5 MS	MW-14	Total/NA	Water	350.1	
440-267785-5 MSD	MW-14	Total/NA	Water	350.1	

Qualifiers

GC/MS VOA

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

GC/MS 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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
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.

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

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
MQL	Method Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
Project/Site: Republic Sunshine Canyon

Job ID: 440-267785-1

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	06-30-20
Arizona	State	AZ0671	10-14-20
California	Los Angeles County Sanitation Districts	10256	06-30-20
California	State	2706	06-30-20
Guam	State	20-004R	01-23-21
Hawaii	State	CA01531	01-29-21
Kansas	NELAP	E-10420	07-31-20
Nevada	State	CA015312020-9	07-31-20
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record 316173

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

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

Client Contact	Project Manager: Kyle Welchang	Site Contact: J. Mills	Date: 6-22-20	COC No:
Company Name: GLA / Republic	Tel/Fax: 858-451-1136	Lab Contact: Rossina	Carrier: TIA	1 of 1 COCs
Address: 11415 W. Bernardo Ct	Analysis Turnaround Time			Sampler: BS, NR, 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: 858-451-1057	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site: Sunshine Cyn. Landfill	☐ 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)	EPA 8260B-VOC	Total Alkalinity	Ammonia-N 350.2	COD EPA 410.4	Chloride, Bromide	NO3-N, Sulfate	Calc. Total Alk.	Mn, K, Na	TDS EPA 160.1	TDC EPA 415.1	Fluoride (340.2)	Sulfide (376.2)	SM-4500-CO2C	Carbon Dioxide	8270D 1,4-Dioxane	Sample Specific Notes.
CM-9R3	6/22/20	1047	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CM-10R		0916			13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CM-11R		1227			13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-6		1117			13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-14		0855			13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PZ-2		1314		GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Subdrain (N)		1200		WW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Duplicate		—		GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Field Blank		—		Low Bio	4			X															
Trip Blank		—		"	4			X															

CC 6/22/20

440-267785 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 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: 1.3 (.4, 1.8) Corr'd: 1.3 (.4, 1.8) | Therm ID No. IR-8

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	GLA	6-22-20		EC-IRV	6/22/20 1345
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	EC-IRV	6/22/20 1700			
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time
			Olga Quelas	EC-IRV	6/22/20 1700

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-267785-1

Login Number: 267785
List Number: 1
Creator: Skinner, Alma D

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	

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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: 440-267832-1
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:
7/7/2020 10:16:08 AM
Lena Davidkova, Project Manager II
(949)260-3229
lena.davidkova@testamericainc.com

Designee for

Rossina Tomova, Project Manager I
(949)260-3276
rossina.tomova@testamericainc.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: 440-267832-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-267832-1	LY-7	Water	06/23/20 08:00	06/23/20 18:15	
440-267832-2	Extration Trench	Water	06/23/20 09:25	06/23/20 18:15	
440-267832-3	Combined Subdrains	Water	06/23/20 10:50	06/23/20 18:15	
440-267832-4	MW-9	Water	06/23/20 13:10	06/23/20 18:15	
440-267832-5	DW-2	Water	06/23/20 09:55	06/23/20 18:15	
440-267832-6	DW-3	Water	06/23/20 11:20	06/23/20 18:15	
440-267832-7	PZ-4	Water	06/23/20 08:35	06/23/20 18:15	
440-267832-8	MW-1	Water	06/23/20 11:44	06/23/20 18:15	
440-267832-9	DW-5	Water	06/23/20 12:59	06/23/20 18:15	
440-267832-10	MW-5	Water	06/23/20 10:30	06/23/20 18:15	
440-267832-11	MW13R	Water	06/23/20 08:48	06/23/20 18:15	
440-267832-12	Field Blank	Water	06/23/20 00:01	06/23/20 18:15	
440-267832-13	Trip Blank	Water	06/23/20 00:01	06/23/20 18:15	

Job ID: 440-267832-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-267832-1

Comments
No additional comments.

Receipt
The samples were received on 6/23/2020 6:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.5º C, 3.4º C, 3.5º C and 5.3º C.

GC/MS VOA
Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-614630 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-614630 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: PZ-4 (440-267832-7), MW-1 (440-267832-8), DW-5 (440-267832-9), MW-5 (440-267832-10) and (CCVIS 440-614630/2).

Method 8260B: The method blank for analytical batch 440-614630 contained Acetone above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-614081 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 440-614081/2).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-614081 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The laboratory control sample (LCS) for analytical batch 440-614081 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following sample(s) were collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: LY-7 (440-267832-1), Extration Trench (440-267832-2), Combined Subdrains (440-267832-3), MW-9 (440-267832-4), DW-2 (440-267832-5) and DW-3 (440-267832-6).

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: MW-1 (440-267832-8), DW-5 (440-267832-9) and MW-5 (440-267832-10).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-614672 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 5 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: Trip Blank (440-267832-13).

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: PZ-4 (440-267832-7). Sample pH is 7.

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

Job ID: 440-267832-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

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

HPLC/IC
Method 300.0: The following sample was diluted due to the nature of the sample matrix: DW-2 (440-267832-5). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: LY-7 (440-267832-1) and Extration Trench (440-267832-2). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: DW-2 (440-267832-5) and MW-5 (440-267832-10). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: Extration Trench (440-267832-2), Combined Subdrains (440-267832-3) and MW-9 (440-267832-4). 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.

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: LY-7 (440-267832-1) and DW-5 (440-267832-9). The samples were preserved to the appropriate pH in the laboratory.

Method 6010B: The method blank for preparation batch 440-614117 and analytical batch 440-614593 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The continuing calibration blank (CCB) for 440-615209 contained Sodium above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL).(CCB 440-615209/24), (CCB 440-615209/48) and (CCB 440-615209/60)

Method 6010B: The method blank for preparation batch 440-614362 and analytical batch 440-615209 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 440-614362 and analytical batch 440-615209 contained Sodium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-614108. LCS was performed in duplicate to provide precision of data.

Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-614110. LCS was performed in duplicate to provide precision of data.

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 Sample Results

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

Job ID: 440-267832-1

Client Sample ID: LY-7

Date Collected: 06/23/20 08:00
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-1

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	0.40	ug/L			06/24/20 15:46	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 15:46	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 15:46	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 15:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 15:46	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,4-Dichlorobenzene	**0.80**		0.50	0.25	ug/L			06/24/20 15:46	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 15:46	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 15:46	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 15:46	1
Acetone	ND		20	10	ug/L			06/24/20 15:46	1
Acetonitrile	ND		20	10	ug/L			06/24/20 15:46	1
Benzene	**0.77**		0.50	0.25	ug/L			06/24/20 15:46	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 15:46	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 15:46	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 15:46	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Chlorobenzene	**0.26**	**J**	0.50	0.25	ug/L			06/24/20 15:46	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 15:46	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
cis-1,2-Dichloroethene	**1.9**		0.50	0.25	ug/L			06/24/20 15:46	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 15:46	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 15:46	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 15:46	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 15:46	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 15:46	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 15:46	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 15:46	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 15:46	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 15:46	1

Client Sample ID: LY-7

Date Collected: 06/23/20 08:00
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Propionitrile	ND		20	10	ug/L			06/24/20 15:46	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 15:46	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 15:46	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 15:46	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 15:46	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 15:46	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 15:46	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 15:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*44*	*T J*	*ug/L*		*5.05*			*06/24/20 15:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/24/20 15:46*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/24/20 15:46*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/24/20 15:46*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/24/20 15:46*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*06/24/20 15:46*	*1*
Dibromofluoromethane (Surr)	*116*		*76 - 132*		*06/24/20 15:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**2.6**		0.50	0.25	ug/L			06/25/20 02:16	1
t-Butanol	**120**		10	5.0	ug/L			06/25/20 02:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*40*	*T J*	*ug/L*		*5.04*			*06/25/20 02:16*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.50*			*06/25/20 02:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/25/20 02:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/25/20 02:16*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/25/20 02:16*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.7**		0.98	0.25	ug/L		06/24/20 08:02	06/26/20 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*37*		*30 - 120*	*06/24/20 08:02*	*06/26/20 14:04*	*1*

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: LY-7

Lab Sample ID: 440-267832-1
Date Collected: 06/23/20 08:00
Matrix: Water
Date Received: 06/23/20 18:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/24/20 03:51	2
Nitrate as N	**0.83**		0.22	0.11	mg/L			06/24/20 03:51	2
Chloride	**510**		50	25	mg/L			06/24/20 04:08	100
Fluoride	**1.6**		1.0	0.50	mg/L			06/24/20 03:51	2
Sulfate	**520**		50	25	mg/L			06/24/20 04:08	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**7.5**		0.25	0.13	mg/L		06/25/20 12:57	07/01/20 17:06	5
Calcium	**200**	**B**	0.50	0.25	mg/L		06/25/20 12:57	07/01/20 17:06	5
Iron	**3.1**		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 17:06	5
Magnesium	**180**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 17:06	5
Manganese	**2.8**		0.10	0.075	mg/L		06/25/20 12:57	07/01/20 17:06	5
Potassium	**43**		2.5	1.3	mg/L		06/25/20 12:57	07/01/20 17:06	5
Sodium	**1000**	**B**	2.5	1.3	mg/L		06/25/20 12:57	07/01/20 17:06	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**23**		1.0	0.50	mg/L			06/30/20 13:05	5
Chemical Oxygen Demand	**140**		20	10	mg/L			06/29/20 16:33	1
Total Dissolved Solids	**4000**		100	50	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:30	1
Total Organic Carbon	**70**		1.0	0.50	mg/L			06/24/20 11:31	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**2200**		4.0	4.0	mg/L			06/24/20 07:02	1
Bicarbonate Alkalinity as CaCO3	**2200**		4.0	4.0	mg/L			06/24/20 07:02	1
Carbon Dioxide, Free	**180**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: Extration Trench

Lab Sample ID: 440-267832-2
Date Collected: 06/23/20 09:25
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/24/20 16:15	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 16:15	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 16:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 16:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 16:15	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 16:15	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: Extration Trench

Lab Sample ID: 440-267832-2
Date Collected: 06/23/20 09:25
Matrix: Water
Date Received: 06/23/20 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,4-Dichlorobenzene	**1.1**		0.50	0.25	ug/L			06/24/20 16:15	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 16:15	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 16:15	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 16:15	1
Acetone	ND		20	10	ug/L			06/24/20 16:15	1
Acetonitrile	ND		20	10	ug/L			06/24/20 16:15	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 16:15	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 16:15	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 16:15	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Chlorobenzene	**0.29**	**J**	0.50	0.25	ug/L			06/24/20 16:15	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 16:15	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
cis-1,2-Dichloroethene	**3.4**		0.50	0.25	ug/L			06/24/20 16:15	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 16:15	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 16:15	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 16:15	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 16:15	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 16:15	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 16:15	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 16:15	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 16:15	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 16:15	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Propionitrile	ND		20	10	ug/L			06/24/20 16:15	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Tetrahydrofuran	**15**		10	5.0	ug/L			06/24/20 16:15	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 16:15	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 16:15	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 16:15	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 16:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 16:15	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 16:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 16:15	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: Extration Trench

Lab Sample ID: 440-267832-2
Matrix: Water

Date Collected: 06/23/20 09:25
Date Received: 06/23/20 18:15

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	13	T J	ug/L		5.04			06/24/20 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 128		06/24/20 16:15	1
4-Bromofluorobenzene (Surr)	104		80 - 120		06/24/20 16:15	1
Toluene-d8 (Surr)	104		80 - 128		06/24/20 16:15	1
4-Bromofluorobenzene (Surr)	104		80 - 120		06/24/20 16:15	1
Dibromofluoromethane (Surr)	98		76 - 132		06/24/20 16:15	1
Dibromofluoromethane (Surr)	98		76 - 132		06/24/20 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.48	J	0.50	0.25	ug/L			06/25/20 02:44	1
t-Butanol	94		10	5.0	ug/L			06/25/20 02:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Silane, fluorotrimethyl-	3.3	T J N	ug/L		2.89	420-56-4		06/25/20 02:44	1
Unknown	15	T J	ug/L		5.04			06/25/20 02:44	1
Unknown	10	T J	ug/L		6.50			06/25/20 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 128		06/25/20 02:44	1
4-Bromofluorobenzene (Surr)	106		80 - 120		06/25/20 02:44	1
Dibromofluoromethane (Surr)	98		76 - 132		06/25/20 02:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	33		1.0	0.25	ug/L		06/24/20 08:02	06/26/20 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	63		30 - 120	06/24/20 08:02	06/26/20 14:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	6.3		5.0	2.5	mg/L			06/23/20 21:28	10
Nitrate as N	ND		1.1	0.55	mg/L			06/23/20 21:28	10
Chloride	420		100	50	mg/L			06/24/20 04:26	200
Fluoride	ND		5.0	2.5	mg/L			06/23/20 21:28	10
Sulfate	1700		250	130	mg/L			06/23/20 21:45	500

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:39	1
Calcium	490	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:39	1
Iron	72		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:39	1
Magnesium	250		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:39	1
Manganese	4.9		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:39	1
Potassium	41		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:39	1
Sodium	440		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:39	1

Client Sample ID: Extration Trench

Lab Sample ID: 440-267832-2

Date Collected: 06/23/20 09:25
Matrix: Water
Date Received: 06/23/20 18:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**13**		1.0	0.50	mg/L			06/29/20 17:39	5
Chemical Oxygen Demand	**140**		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	**4200**		100	50	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:30	1
Total Organic Carbon	**94**		1.0	0.50	mg/L			06/24/20 11:48	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**1000**		4.0	4.0	mg/L			06/24/20 06:27	1
Bicarbonate Alkalinity as CaCO3	**1000**		4.0	4.0	mg/L			06/24/20 06:27	1
Carbon Dioxide, Free	**230**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-267832-3

Date Collected: 06/23/20 10:50
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/24/20 16:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 16:43	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 16:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 16:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 16:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,4-Dichlorobenzene	**3.1**		0.50	0.25	ug/L			06/24/20 16:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 16:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 16:43	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 16:43	1
Acetone	ND		20	10	ug/L			06/24/20 16:43	1
Acetonitrile	ND		20	10	ug/L			06/24/20 16:43	1
Benzene	**0.37**	**J**	0.50	0.25	ug/L			06/24/20 16:43	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 16:43	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 16:43	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 16:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 16:43	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-267832-3
Date Collected: 06/23/20 10:50
Matrix: Water
Date Received: 06/23/20 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.7**		0.50	0.25	ug/L			06/24/20 16:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 16:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 16:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 16:43	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 16:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 16:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 16:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 16:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 16:43	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 16:43	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Propionitrile	ND		20	10	ug/L			06/24/20 16:43	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 16:43	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 16:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 16:43	1
Trichloroethene	**0.30**	**J**	0.50	0.25	ug/L			06/24/20 16:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 16:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 16:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 16:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 16:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 16:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 16:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 128*		*06/24/20 16:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/24/20 16:43*	*1*
Toluene-d8 (Surr)	*94*		*80 - 128*		*06/24/20 16:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/24/20 16:43*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/24/20 16:43*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/24/20 16:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.81**		0.50	0.25	ug/L			06/25/20 03:12	1
t-Butanol	**28**		10	5.0	ug/L			06/25/20 03:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/25/20 03:12*	*1*

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-267832-3
Date Collected: 06/23/20 10:50
Matrix: Water
Date Received: 06/23/20 18:15

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1-methyl-4-(1-methylethyl)-	19	T J N	ug/L		12.42	99-87-6		06/25/20 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/25/20 03:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/25/20 03:12	1
Dibromofluoromethane (Surr)	100		76 - 132		06/25/20 03:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.4		1.0	0.25	ug/L		06/24/20 08:09	06/26/20 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	33		30 - 120	06/24/20 08:09	06/26/20 14:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.3		1.0	0.50	mg/L			06/23/20 22:02	2
Nitrate as N	ND		0.22	0.11	mg/L			06/23/20 22:02	2
Chloride	190		50	25	mg/L			06/23/20 22:19	100
Fluoride	1.1		1.0	0.50	mg/L			06/23/20 22:02	2
Sulfate	1600		50	25	mg/L			06/23/20 22:19	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:42	1
Calcium	390	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:42	1
Iron	29		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:42	1
Magnesium	200		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:42	1
Manganese	7.2		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:42	1
Potassium	14		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:42	1
Sodium	280		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	4.8		0.20	0.10	mg/L			06/29/20 18:38	1
Chemical Oxygen Demand	40		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	3500		20	10	mg/L			06/25/20 10:15	1
Total Sulfide	0.076		0.050	0.027	mg/L			06/26/20 13:30	1
Total Organic Carbon	29		1.0	0.50	mg/L			06/24/20 12:03	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	590		4.0	4.0	mg/L			06/24/20 07:46	1
Bicarbonate Alkalinity as CaCO3	590		4.0	4.0	mg/L			06/24/20 07:46	1
Carbon Dioxide, Free	150		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW-9

Lab Sample ID: 440-267832-4
Date Collected: 06/23/20 13:10
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/24/20 17:12	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW-9

Date Collected: 06/23/20 13:10
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 17:12	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 17:12	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 17:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 17:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 17:12	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 17:12	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 17:12	1
Acetone	ND		20	10	ug/L			06/24/20 17:12	1
Acetonitrile	ND		20	10	ug/L			06/24/20 17:12	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 17:12	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 17:12	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 17:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 17:12	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
cis-1,2-Dichloroethene	**0.60**		0.50	0.25	ug/L			06/24/20 17:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 17:12	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 17:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 17:12	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 17:12	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 17:12	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 17:12	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 17:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 17:12	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 17:12	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 17:12	1

Client Sample ID: MW-9

Date Collected: 06/23/20 13:10
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		20	10	ug/L			06/24/20 17:12	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Tetrahydrofuran	**6.6**	**J**	10	5.0	ug/L			06/24/20 17:12	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 17:12	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 17:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 17:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 17:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 17:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 17:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*6.6*	*T J*	*ug/L*		*5.04*			*06/24/20 17:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*118*		*80 - 128*		*06/24/20 17:12*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*06/24/20 17:12*	*1*
Toluene-d8 (Surr)	*118*		*80 - 128*		*06/24/20 17:12*	*1*
4-Bromofluorobenzene (Surr)	*87*		*80 - 120*		*06/24/20 17:12*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*06/24/20 17:12*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*06/24/20 17:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	**0.41**	**J**	0.50	0.25	ug/L			06/25/20 03:40	1
t-Butanol	**29**		10	5.0	ug/L			06/25/20 03:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8.8*	*T J*	*ug/L*		*5.04*			*06/25/20 03:40*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.50*			*06/25/20 03:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/25/20 03:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/25/20 03:40*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/25/20 03:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**18**		0.98	0.25	ug/L		06/24/20 08:09	06/26/20 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*66*		*30 - 120*	*06/24/20 08:09*	*06/26/20 15:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**3.1**		1.0	0.50	mg/L			06/23/20 22:37	2

Client Sample ID: MW-9

Lab Sample ID: 440-267832-4
Matrix: Water
Date Collected: 06/23/20 13:10
Date Received: 06/23/20 18:15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.22	0.11	mg/L			06/23/20 22:37	2
Fluoride	**1.3**		1.0	0.50	mg/L			06/23/20 22:37	2

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		50	25	mg/L			06/23/20 23:29	100
Sulfate	**1900**		50	25	mg/L			06/23/20 23:29	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**1.1**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:45	1
Calcium	**430**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:45	1
Iron	**46**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:45	1
Magnesium	**230**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:45	1
Manganese	**4.9**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:45	1
Potassium	**24**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:45	1
Sodium	**350**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**6.1**		0.20	0.10	mg/L			06/29/20 16:36	1
Chemical Oxygen Demand	**65**		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	**3900**		50	25	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:30	1
Total Organic Carbon	**35**		1.0	0.50	mg/L			06/24/20 12:19	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**730**		4.0	4.0	mg/L			06/24/20 08:01	1
Bicarbonate Alkalinity as CaCO3	**730**		4.0	4.0	mg/L			06/24/20 08:01	1
Carbon Dioxide, Free	**130**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: DW-2

Lab Sample ID: 440-267832-5
Matrix: Water
Date Collected: 06/23/20 09:55
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/24/20 17:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 17:40	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 17:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 17:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 17:40	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-2

Date Collected: 06/23/20 09:55
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 17:40	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 17:40	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 17:40	1
Acetone	ND		20	10	ug/L			06/24/20 17:40	1
Acetonitrile	ND		20	10	ug/L			06/24/20 17:40	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 17:40	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 17:40	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 17:40	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 17:40	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 17:40	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 17:40	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 17:40	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 17:40	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 17:40	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 17:40	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 17:40	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 17:40	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 17:40	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Propionitrile	ND		20	10	ug/L			06/24/20 17:40	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 17:40	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 17:40	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 17:40	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 17:40	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 17:40	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-2

Date Collected: 06/23/20 09:55
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 17:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 17:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 17:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 17:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 17:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 17:40*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*06/24/20 17:40*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 17:40*	*1*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*		*06/24/20 17:40*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*06/24/20 17:40*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*06/24/20 17:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/24/20 08:09	06/26/20 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*53*		*30 - 120*	*06/24/20 08:09*	*06/26/20 15:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/23/20 21:12	2
Nitrate as N	ND		0.22	0.11	mg/L			06/23/20 21:12	2
Chloride	**11**		1.0	0.50	mg/L			06/23/20 21:12	2
Fluoride	**0.50**	**J**	1.0	0.50	mg/L			06/23/20 21:12	2
Sulfate	**1000**		50	25	mg/L			06/23/20 21:28	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.62**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:48	1
Calcium	**74**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:48	1
Iron	**0.92**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:48	1
Magnesium	**50**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:48	1
Manganese	**0.10**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:48	1
Potassium	**3.9**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:48	1
Sodium	**440**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.0**		0.20	0.10	mg/L			06/29/20 16:41	1
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	**1900**		20	10	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:30	1
Total Organic Carbon	**1.7**		0.10	0.050	mg/L			06/24/20 06:56	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**380**		4.0	4.0	mg/L			06/24/20 08:10	1
Bicarbonate Alkalinity as CaCO3	**380**		4.0	4.0	mg/L			06/24/20 08:10	1

Client Sample ID: DW-2

Lab Sample ID: 440-267832-5
Date Collected: 06/23/20 09:55
Matrix: Water
Date Received: 06/23/20 18:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	14		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: DW-3

Lab Sample ID: 440-267832-6
Date Collected: 06/23/20 11:20
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/24/20 18:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Acrolein	ND	*	50	2.5	ug/L			06/24/20 18:08	1
Acrylonitrile	ND		50	1.0	ug/L			06/24/20 18:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 18:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 18:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 18:08	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 18:08	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 18:08	1
Acetone	ND		20	10	ug/L			06/24/20 18:08	1
Acetonitrile	ND		20	10	ug/L			06/24/20 18:08	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 18:08	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 18:08	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 18:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 18:08	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 18:08	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 18:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 18:08	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-3

Date Collected: 06/23/20 11:20
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 18:08	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 18:08	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 18:08	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 18:08	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 18:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 18:08	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 18:08	1
o-Xylene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Propionitrile	ND		20	10	ug/L			06/24/20 18:08	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 18:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 18:08	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 18:08	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 18:08	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 18:08	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 18:08	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 18:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 18:08	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 18:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*06/24/20 18:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/24/20 18:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*06/24/20 18:08*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/24/20 18:08*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/24/20 18:08*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/24/20 18:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/24/20 08:09	06/26/20 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*55*		*30 - 120*	*06/24/20 08:09*	*06/26/20 15:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 21:44	1
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 21:44	1
Chloride	**15**		0.50	0.25	mg/L			06/23/20 21:44	1
Fluoride	**0.33**	**J**	0.50	0.25	mg/L			06/23/20 21:44	1
Sulfate	**1200**		25	13	mg/L			06/23/20 22:00	50

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-3

Lab Sample ID: 440-267832-6
Date Collected: 06/23/20 11:20
Matrix: Water
Date Received: 06/23/20 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.062		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 17:51	1
Calcium	290	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:51	1
Iron	1.4		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 17:51	1
Magnesium	96		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 17:51	1
Manganese	0.065		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 17:51	1
Potassium	8.8		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 17:51	1
Sodium	66		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 17:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.57		0.20	0.10	mg/L			06/29/20 17:12	1
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	1900		10	5.0	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:31	1
Total Organic Carbon	0.65		0.10	0.050	mg/L			06/24/20 08:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	160		4.0	4.0	mg/L			06/24/20 08:18	1
Bicarbonate Alkalinity as CaCO3	160		4.0	4.0	mg/L			06/24/20 08:18	1
Carbon Dioxide, Free	14		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: PZ-4

Lab Sample ID: 440-267832-7
Date Collected: 06/23/20 08:35
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/27/20 15:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Acrolein	ND	F1	50	2.5	ug/L			06/27/20 15:29	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 15:29	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 15:29	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 15:29	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 15:29	1
Acetone	ND		20	10	ug/L			06/27/20 15:29	1
Acetonitrile	ND		20	10	ug/L			06/27/20 15:29	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 15:29	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: PZ-4

Date Collected: 06/23/20 08:35
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.40	ug/L			06/27/20 15:29	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 15:29	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 15:29	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 15:29	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 15:29	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 15:29	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 15:29	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 15:29	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 15:29	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 15:29	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 15:29	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 15:29	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Propionitrile	ND		20	10	ug/L			06/27/20 15:29	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 15:29	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 15:29	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 15:29	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 15:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 15:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 15:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*19*	*T J*	*ug/L*		*2.24*			*06/27/20 15:29*	*1*
Unknown	*2.5*	*T J*	*ug/L*		*2.94*			*06/27/20 15:29*	*1*
Unknown	*19*	*T J*	*ug/L*		*14.21*			*06/27/20 15:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/27/20 15:29*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 15:29*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/27/20 15:29*	*1*

Client Sample ID: PZ-4

Date Collected: 06/23/20 08:35
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-7

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 15:29*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 15:29*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 15:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		50	1.0	ug/L			06/30/20 14:06	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/30/20 14:06	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/30/20 14:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/30/20 14:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/30/20 14:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/30/20 14:06*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/30/20 14:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/30/20 14:06*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/30/20 14:06*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/30/20 14:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/24/20 08:09	06/26/20 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*55*		*30 - 120*	*06/24/20 08:09*	*06/26/20 16:11*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 22:16	1
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 22:16	1
Chloride	**9.2**		0.50	0.25	mg/L			06/23/20 22:16	1
Fluoride	**0.91**		0.50	0.25	mg/L			06/23/20 22:16	1
Sulfate	**590**		25	13	mg/L			06/23/20 22:32	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.21**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 18:04	1
Calcium	**140**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:04	1
Iron	**2.9**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:04	1
Magnesium	**83**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 18:04	1
Manganese	**0.17**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 18:04	1
Potassium	**4.8**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 18:04	1
Sodium	**110**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**2.8**		0.20	0.10	mg/L			06/29/20 17:18	1
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	**1200**		10	5.0	mg/L			06/25/20 10:15	1

Client Sample ID: PZ-4

Lab Sample ID: 440-267832-7

Date Collected: 06/23/20 08:35
Matrix: Water
Date Received: 06/23/20 18:15

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:31	1
Total Organic Carbon	**1.5**		0.10	0.050	mg/L			06/24/20 08:27	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**320**		4.0	4.0	mg/L			06/24/20 08:27	1
Bicarbonate Alkalinity as CaCO3	**320**		4.0	4.0	mg/L			06/24/20 08:27	1
Carbon Dioxide, Free	**26**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW-1

Lab Sample ID: 440-267832-8

Date Collected: 06/23/20 11:44
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/27/20 16:52	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Acrolein	ND		50	2.5	ug/L			06/27/20 16:52	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 16:52	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 16:52	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 16:52	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 16:52	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 16:52	1
Acetone	ND		20	10	ug/L			06/27/20 16:52	1
Acetonitrile	ND		20	10	ug/L			06/27/20 16:52	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 16:52	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 16:52	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 16:52	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 16:52	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW-1

Date Collected: 06/23/20 11:44
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-8

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	0.25	ug/L			06/27/20 16:52	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 16:52	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 16:52	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 16:52	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 16:52	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 16:52	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 16:52	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 16:52	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 16:52	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Naphthalene	**0.61**	**J**	1.0	0.40	ug/L			06/27/20 16:52	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Propionitrile	ND		20	10	ug/L			06/27/20 16:52	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 16:52	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 16:52	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 16:52	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 16:52	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 16:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 16:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.8*	*T J*	*ug/L*		*15.57*			*06/27/20 16:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 16:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/27/20 16:52*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 16:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/27/20 16:52*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 16:52*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 16:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 08:54	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 08:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.5*	*T J*	*ug/L*		*2.67*			*06/29/20 08:54*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/29/20 08:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/29/20 08:54*	*1*

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW-1

Lab Sample ID: 440-267832-8
Date Collected: 06/23/20 11:44
Matrix: Water
Date Received: 06/23/20 18:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 08:54*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/29/20 08:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.2**		0.99	0.25	ug/L		06/24/20 08:09	06/26/20 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*47*		*30 - 120*	*06/24/20 08:09*	*06/26/20 16:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.9**		0.50	0.25	mg/L			06/23/20 22:48	1
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 22:48	1
Fluoride	**2.7**		0.50	0.25	mg/L			06/23/20 22:48	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**160**		25	13	mg/L			06/23/20 23:36	50
Sulfate	**820**		25	13	mg/L			06/23/20 23:36	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.59**		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 18:07	1
Calcium	**220**	**B**	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:07	1
Iron	**21**		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:07	1
Magnesium	**110**		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 18:07	1
Manganese	**1.5**		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 18:07	1
Potassium	**25**		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 18:07	1
Sodium	**120**		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 18:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**4.2**		0.20	0.10	mg/L			06/29/20 17:23	1
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 16:34	1
Total Dissolved Solids	**1800**		10	5.0	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:31	1
Total Organic Carbon	**12**		1.0	0.50	mg/L			06/24/20 12:32	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**300**		4.0	4.0	mg/L			06/24/20 08:36	1
Bicarbonate Alkalinity as CaCO3	**300**		4.0	4.0	mg/L			06/24/20 08:36	1
Carbon Dioxide, Free	**42**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: DW-5

Lab Sample ID: 440-267832-9
Date Collected: 06/23/20 12:59
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/27/20 17:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-5

Date Collected: 06/23/20 12:59
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			06/27/20 17:20	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 17:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 17:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 17:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 17:20	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 17:20	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 17:20	1
Acetone	ND		20	10	ug/L			06/27/20 17:20	1
Acetonitrile	ND		20	10	ug/L			06/27/20 17:20	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 17:20	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 17:20	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 17:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 17:20	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 17:20	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 17:20	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 17:20	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 17:20	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 17:20	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 17:20	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 17:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 17:20	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 17:20	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 17:20	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: DW-5

Date Collected: 06/23/20 12:59
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		20	10	ug/L			06/27/20 17:20	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 17:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 17:20	1
Toluene	**0.35**	**J**	0.50	0.25	ug/L			06/27/20 17:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 17:20	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 17:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 17:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 17:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*8.3*	*T J*	*ug/L*		*3.26*			*06/27/20 17:20*	*1*
Butane, 2,2-dimethyl-	*6.2*	*T J N*	*ug/L*		*4.97*	*75-83-2*		*06/27/20 17:20*	*1*
Butane, 2,3-dimethyl-	*16*	*T J N*	*ug/L*		*5.49*	*79-29-8*		*06/27/20 17:20*	*1*
Benzene, (2-methylpropyl)-	*8.0*	*T J N*	*ug/L*		*13.00*	*538-93-2*		*06/27/20 17:20*	*1*
1H-Indene, 2,3-dihydro-1,1-dimethyl-	*5.9*	*T J N*	*ug/L*		*14.32*	*4912-92-9*		*06/27/20 17:20*	*1*
Benzene, 1,2,3,5-tetramethyl-	*20*	*T J N*	*ug/L*		*14.48*	*527-53-7*		*06/27/20 17:20*	*1*
Unknown	*12*	*T J*	*ug/L*		*15.23*			*06/27/20 17:20*	*1*
Benzene, pentamethyl-	*5.5*	*T J N*	*ug/L*		*15.34*	*700-12-9*		*06/27/20 17:20*	*1*
Benzene, pentamethyl-	*6.7*	*T J N*	*ug/L*		*15.67*	*700-12-9*		*06/27/20 17:20*	*1*
Unknown	*8.9*	*T J*	*ug/L*		*16.05*			*06/27/20 17:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 17:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/27/20 17:20*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 17:20*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/27/20 17:20*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 17:20*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 17:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 09:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 09:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7.3*	*T J*	*ug/L*		*2.89*			*06/29/20 09:23*	*1*
Butane, 2,3-dimethyl-	*10*	*T J N*	*ug/L*		*5.08*	*79-29-8*		*06/29/20 09:23*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.51*			*06/29/20 09:23*	*1*
Benzene, (2-methylpropyl)-	*7.6*	*T J N*	*ug/L*		*12.20*	*538-93-2*		*06/29/20 09:23*	*1*
1H-Indene, 2,3-dihydro-1,1-dimethyl-	*6.4*	*T J N*	*ug/L*		*13.49*	*4912-92-9*		*06/29/20 09:23*	*1*
Benzene, 1,2,4,5-tetramethyl-	*22*	*T J N*	*ug/L*		*13.65*	*95-93-2*		*06/29/20 09:23*	*1*
Benzene, 2,4-diethyl-1-methyl-	*7.6*	*T J N*	*ug/L*		*14.00*	*1758-85-6*		*06/29/20 09:23*	*1*
Unknown	*11*	*T J*	*ug/L*		*14.35*			*06/29/20 09:23*	*1*
Benzene, 2,4-dimethyl-1-(1-methylethyl)-	*6.4*	*T J N*	*ug/L*		*14.75*	*4706-89-2*		*06/29/20 09:23*	*1*

Client Sample ID: DW-5

Lab Sample ID: 440-267832-9
Date Collected: 06/23/20 12:59
Matrix: Water
Date Received: 06/23/20 18:15

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1H-Indene, 2,3-dihydro-5,6-dimethyl-	7.5	T J N	ug/L		15.11	1075-22-5		06/29/20 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 128		06/29/20 09:23	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/29/20 09:23	1
Dibromofluoromethane (Surr)	96		76 - 132		06/29/20 09:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.25	ug/L		06/24/20 08:09	06/26/20 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	53		30 - 120	06/24/20 08:09	06/26/20 16:54	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.46**	**J**	0.50	0.25	mg/L			06/24/20 00:33	1
Nitrate as N	ND		0.11	0.055	mg/L			06/24/20 00:33	1
Chloride	**20**		5.0	2.5	mg/L			06/25/20 01:15	10
Fluoride	**3.5**		0.50	0.25	mg/L			06/24/20 00:33	1
Sulfate	ND		0.50	0.25	mg/L			06/24/20 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.7**		0.050	0.025	mg/L		06/25/20 12:57	07/01/20 17:09	1
Calcium	**5.8**	**B**	0.10	0.050	mg/L		06/25/20 12:57	07/01/20 17:09	1
Iron	**0.24**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 17:09	1
Magnesium	**1.0**		0.020	0.010	mg/L		06/25/20 12:57	07/01/20 17:09	1
Manganese	**0.12**		0.020	0.015	mg/L		06/25/20 12:57	07/01/20 17:09	1
Potassium	**1.2**		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 17:09	1
Sodium	**430**	**B**	0.50	0.26	mg/L		06/25/20 12:57	07/01/20 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.30**		0.20	0.10	mg/L			06/29/20 17:28	1
Chemical Oxygen Demand	**18**	**J**	20	10	mg/L			07/02/20 15:08	1
Total Dissolved Solids	**1100**		10	5.0	mg/L			06/25/20 10:15	1
Total Sulfide	**0.070**		0.050	0.027	mg/L			06/26/20 13:31	1
Total Organic Carbon	**8.2**		0.10	0.050	mg/L			06/24/20 11:14	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**960**		4.0	4.0	mg/L			06/24/20 08:53	1
Bicarbonate Alkalinity as CaCO3	**920**		4.0	4.0	mg/L			06/24/20 08:53	1
Carbon Dioxide, Free	**8.8**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW-5

Lab Sample ID: 440-267832-10
Date Collected: 06/23/20 10:30
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/27/20 17:47	1

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

Job ID: 440-267832-1

Client Sample ID: MW-5

Date Collected: 06/23/20 10:30
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Acrolein	ND		50	2.5	ug/L			06/27/20 17:47	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 17:47	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 17:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 17:47	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 17:47	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 17:47	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 17:47	1
Acetone	ND		20	10	ug/L			06/27/20 17:47	1
Acetonitrile	ND		20	10	ug/L			06/27/20 17:47	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 17:47	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 17:47	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 17:47	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 17:47	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 17:47	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 17:47	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 17:47	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 17:47	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 17:47	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 17:47	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 17:47	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 17:47	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 17:47	1

Client Sample ID: MW-5

Date Collected: 06/23/20 10:30
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Propionitrile	ND		20	10	ug/L			06/27/20 17:47	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 17:47	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 17:47	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 17:47	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 17:47	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 17:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 17:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 17:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 17:47*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/27/20 17:47*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 17:47*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*06/27/20 17:47*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 17:47*	*1*
Dibromofluoromethane (Surr)	*93*		*76 - 132*		*06/27/20 17:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 09:51	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 09:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.4*	*T J*	*ug/L*		*2.61*			*06/29/20 09:51*	*1*
Unknown	*3.4*	*T J*	*ug/L*		*5.04*			*06/29/20 09:51*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/29/20 09:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 128*		*06/29/20 09:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/29/20 09:51*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*06/29/20 09:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.4**		0.99	0.25	ug/L		06/24/20 08:09	06/26/20 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*44*		*30 - 120*	*06/24/20 08:09*	*06/26/20 17:15*	*1*

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW-5

Lab Sample ID: 440-267832-10
Date Collected: 06/23/20 10:30
Matrix: Water
Date Received: 06/23/20 18:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.8		1.0	0.50	mg/L			06/24/20 01:05	2
Nitrate as N	ND		0.22	0.11	mg/L			06/24/20 01:05	2
Chloride	290		50	25	mg/L			06/24/20 01:21	100
Fluoride	2.9		1.0	0.50	mg/L			06/24/20 01:05	2
Sulfate	1500		50	25	mg/L			06/24/20 01:21	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 18:10	1
Calcium	400	B	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:10	1
Iron	37		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 18:10	1
Magnesium	180		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 18:10	1
Manganese	4.5		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 18:10	1
Potassium	23		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 18:10	1
Sodium	300		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.8		0.20	0.10	mg/L			06/29/20 17:34	1
Chemical Oxygen Demand	43		20	10	mg/L			07/02/20 15:08	1
Total Dissolved Solids	3200		20	10	mg/L			06/25/20 10:15	1
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:31	1
Total Organic Carbon	20		1.0	0.50	mg/L			06/24/20 12:48	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	530		4.0	4.0	mg/L			06/24/20 09:05	1
Bicarbonate Alkalinity as CaCO3	530		4.0	4.0	mg/L			06/24/20 09:05	1
Carbon Dioxide, Free	81		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW13R

Lab Sample ID: 440-267832-11
Date Collected: 06/23/20 08:48
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/28/20 10:29	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Acrolein	ND		50	2.5	ug/L			06/27/20 18:15	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 18:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/28/20 10:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/28/20 10:29	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW13R

Date Collected: 06/23/20 08:48
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-11

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		0.50	0.25	ug/L			06/28/20 10:29	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/28/20 10:29	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/28/20 10:29	1
2-Hexanone	ND		5.0	2.5	ug/L			06/28/20 10:29	1
Acetone	ND		20	10	ug/L			06/28/20 10:29	1
Acetonitrile	ND		20	10	ug/L			06/28/20 10:29	1
Benzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Allyl chloride	ND		1.0	0.50	ug/L			06/28/20 10:29	1
Bromoform	ND		1.0	0.40	ug/L			06/28/20 10:29	1
Bromomethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/28/20 10:29	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Chloroethane	ND		1.0	0.40	ug/L			06/28/20 10:29	1
Chloroform	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Chloromethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Dibromomethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/28/20 10:29	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 10:29	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Iodomethane	ND		2.0	1.0	ug/L			06/28/20 10:29	1
Isobutyl alcohol	ND		25	13	ug/L			06/28/20 10:29	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/28/20 10:29	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/28/20 10:29	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 10:29	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/28/20 10:29	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Naphthalene	ND		1.0	0.40	ug/L			06/28/20 10:29	1
o-Xylene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Propionitrile	ND		20	10	ug/L			06/28/20 10:29	1
Styrene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
t-Butanol	**5.1**	**J**	10	5.0	ug/L			06/28/20 10:29	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/28/20 10:29	1
Toluene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/28/20 10:29	1
Trichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/28/20 10:29	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/28/20 10:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/28/20 10:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/28/20 10:29	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: MW13R

Date Collected: 06/23/20 08:48
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/28/20 10:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/28/20 10:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*120*	*T J*	*ug/L*		*2.26*			*06/28/20 10:29*	*1*
Unknown	*5.2*	*T J*	*ug/L*		*2.91*			*06/28/20 10:29*	*1*
Unknown	*11*	*T J*	*ug/L*		*6.50*			*06/28/20 10:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 18:15*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/27/20 18:15*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/28/20 10:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/28/20 10:29*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 18:15*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*06/28/20 10:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.6**		1.0	0.25	ug/L		06/24/20 08:09	06/26/20 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*42*		*30 - 120*	*06/24/20 08:09*	*06/26/20 17:36*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**1.8**		0.50	0.25	mg/L			06/24/20 01:37	1
Nitrate as N	ND		0.11	0.055	mg/L			06/24/20 01:37	1
Chloride	**120**		25	13	mg/L			06/25/20 01:33	50
Fluoride	**0.74**		0.50	0.25	mg/L			06/24/20 01:37	1
Sulfate	**27**		0.50	0.25	mg/L			06/24/20 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.85**		0.050	0.025	mg/L		06/24/20 08:26	06/26/20 18:13	1
Calcium	**62**	**B**	0.10	0.050	mg/L		06/24/20 08:26	06/26/20 18:13	1
Iron	**0.28**		0.10	0.050	mg/L		06/24/20 08:26	06/26/20 18:13	1
Magnesium	**83**		0.020	0.010	mg/L		06/24/20 08:26	06/26/20 18:13	1
Manganese	**0.032**		0.020	0.015	mg/L		06/24/20 08:26	06/26/20 18:13	1
Potassium	**23**		0.50	0.25	mg/L		06/24/20 08:26	06/26/20 18:13	1
Sodium	**140**		0.50	0.26	mg/L		06/24/20 08:26	06/26/20 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**9.7**		4.0	2.0	mg/L			06/29/20 18:33	20
Chemical Oxygen Demand	**200**		20	10	mg/L			07/02/20 15:08	1
Total Dissolved Solids	**990**		10	5.0	mg/L			06/25/20 10:15	1
Total Sulfide	**110**		10	5.4	mg/L			06/26/20 13:31	200
Total Organic Carbon	**24**		1.0	0.50	mg/L			06/24/20 09:43	10

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**640**		4.0	4.0	mg/L			06/24/20 09:21	1
Bicarbonate Alkalinity as CaCO3	**590**		4.0	4.0	mg/L			06/24/20 09:21	1

Client Sample ID: MW13R
Date Collected: 06/23/20 08:48
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-11
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	7.0		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: Field Blank
Date Collected: 06/23/20 00:01
Date Received: 06/23/20 18:15

Lab Sample ID: 440-267832-12
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	0.40	ug/L			06/28/20 12:22	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Acrolein	ND		50	2.5	ug/L			06/28/20 12:22	1
Acrylonitrile	ND		50	1.0	ug/L			06/28/20 12:22	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/28/20 12:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/28/20 12:22	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/28/20 12:22	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/28/20 12:22	1
2-Hexanone	ND		5.0	2.5	ug/L			06/28/20 12:22	1
Acetone	ND		20	10	ug/L			06/28/20 12:22	1
Acetonitrile	ND		20	10	ug/L			06/28/20 12:22	1
Benzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Allyl chloride	ND		1.0	0.50	ug/L			06/28/20 12:22	1
Bromoform	ND		1.0	0.40	ug/L			06/28/20 12:22	1
Bromomethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/28/20 12:22	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Chloroethane	ND		1.0	0.40	ug/L			06/28/20 12:22	1
Chloroform	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Chloromethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Dibromomethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/28/20 12:22	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 12:22	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/28/20 12:22	1

Client Sample ID: Field Blank

Lab Sample ID: 440-267832-12

Date Collected: 06/23/20 00:01
Matrix: Water
Date Received: 06/23/20 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		2.0	1.0	ug/L			06/28/20 12:22	1
Isobutyl alcohol	ND		25	13	ug/L			06/28/20 12:22	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/28/20 12:22	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/28/20 12:22	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 12:22	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/28/20 12:22	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Naphthalene	ND		1.0	0.40	ug/L			06/28/20 12:22	1
o-Xylene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Propionitrile	ND		20	10	ug/L			06/28/20 12:22	1
Styrene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
t-Butanol	ND		10	5.0	ug/L			06/28/20 12:22	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/28/20 12:22	1
Toluene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/28/20 12:22	1
Trichloroethene	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/28/20 12:22	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/28/20 12:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/28/20 12:22	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/28/20 12:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/28/20 12:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/28/20 12:22	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.9*	*T J*	*ug/L*		*2.58*			*06/28/20 12:22*	*1*
Unknown	*12*	*T J*	*ug/L*		*6.51*			*06/28/20 12:22*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/28/20 12:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/28/20 12:22*	*1*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/28/20 12:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/28/20 12:22*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*06/28/20 12:22*	*1*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*06/28/20 12:22*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-267832-13

Date Collected: 06/23/20 00:01
Matrix: Water
Date Received: 06/23/20 18:15

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	0.40	ug/L			06/29/20 12:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Acrolein	ND		50	2.5	ug/L			06/29/20 12:11	1
Acrylonitrile	ND		50	1.0	ug/L			06/29/20 12:11	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1

Client Sample ID: Trip Blank

Lab Sample ID: 440-267832-13

Date Collected: 06/23/20 00:01

Matrix: Water

Date Received: 06/23/20 18:15

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	0.25	ug/L			06/29/20 12:11	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/29/20 12:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/29/20 12:11	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/29/20 12:11	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/29/20 12:11	1
2-Hexanone	ND		5.0	2.5	ug/L			06/29/20 12:11	1
Acetone	ND		20	10	ug/L			06/29/20 12:11	1
Acetonitrile	ND		20	10	ug/L			06/29/20 12:11	1
Benzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Allyl chloride	ND		1.0	0.50	ug/L			06/29/20 12:11	1
Bromoform	ND		1.0	0.40	ug/L			06/29/20 12:11	1
Bromomethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/29/20 12:11	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Chloroethane	ND		1.0	0.40	ug/L			06/29/20 12:11	1
Chloroform	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Chloromethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Dibromomethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/29/20 12:11	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/29/20 12:11	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Iodomethane	ND		2.0	1.0	ug/L			06/29/20 12:11	1
Isobutyl alcohol	ND		25	13	ug/L			06/29/20 12:11	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/29/20 12:11	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/29/20 12:11	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/29/20 12:11	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/29/20 12:11	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Naphthalene	ND		1.0	0.40	ug/L			06/29/20 12:11	1
o-Xylene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Propionitrile	ND		20	10	ug/L			06/29/20 12:11	1
Styrene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
t-Butanol	ND		10	5.0	ug/L			06/29/20 12:11	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/29/20 12:11	1

Client Sample Results

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

Job ID: 440-267832-1

Client Sample ID: Trip Blank

Lab Sample ID: 440-267832-13

Date Collected: 06/23/20 00:01
Matrix: Water
Date Received: 06/23/20 18:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10	5.0	ug/L			06/29/20 12:11	1
Toluene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/29/20 12:11	1
Trichloroethene	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/29/20 12:11	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 12:11	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/29/20 12:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/29/20 12:11	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/29/20 12:11	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*7.3*	*T J*	*ug/L*		*5.04*			*06/29/20 12:11*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/29/20 12:11*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/29/20 12:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 12:11*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/29/20 12:11*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 12:11*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/29/20 12:11*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/29/20 12:11*	*1*

Method Summary

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

Job ID: 440-267832-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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 4500 CO2 C	Free Carbon Dioxide	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-267832-1

Client Sample ID: LY-7

Lab Sample ID: 440-267832-1
Date Collected: 06/23/20 08:00
Matrix: Water
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 15:46	TCN	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614240	06/25/20 02:16	A1W	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	614108	06/24/20 08:02	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 14:04	HN	TAL IRV
Total/NA	Analysis	300.0		2			613955	06/24/20 03:51	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613956	06/24/20 03:51	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613956	06/24/20 04:08	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		5			615209	07/01/20 17:06	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614986	06/30/20 13:05	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:33	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 07:02	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:30	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 11:31	YZ	TAL IRV

Client Sample ID: Extration Trench

Lab Sample ID: 440-267832-2
Date Collected: 06/23/20 09:25
Matrix: Water
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 16:15	TCN	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614240	06/25/20 02:44	A1W	TAL IRV
Total/NA	Prep	3520C			995 mL	1.0 mL	614108	06/24/20 08:02	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 14:25	HN	TAL IRV
Total/NA	Analysis	300.0		10			613955	06/23/20 21:28	NTN	TAL IRV
Total/NA	Analysis	300.0		10			613956	06/23/20 21:28	NTN	TAL IRV
Total/NA	Analysis	300.0		500			613956	06/23/20 21:45	NTN	TAL IRV
Total/NA	Analysis	300.0		200			613956	06/24/20 04:26	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:39	P1R	TAL IRV
Total/NA	Analysis	350.1		5	0.8 mL	8.0 mL	614913	06/29/20 17:39	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 06:27	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:30	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 11:48	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267832-1

Client Sample ID: Combined Subdrains

Lab Sample ID: 440-267832-3

Date Collected: 06/23/20 10:50
Matrix: Water
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 16:43	TCN	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614240	06/25/20 03:12	A1W	TAL IRV
Total/NA	Prep	3520C			995 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 14:46	HN	TAL IRV
Total/NA	Analysis	300.0		2			613955	06/23/20 22:02	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613956	06/23/20 22:02	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613956	06/23/20 22:19	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:42	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 18:38	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 07:46	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:30	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 12:03	YZ	TAL IRV

Client Sample ID: MW-9

Lab Sample ID: 440-267832-4

Date Collected: 06/23/20 13:10
Matrix: Water
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 17:12	TCN	TAL IRV
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614240	06/25/20 03:40	A1W	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 15:08	HN	TAL IRV
Total/NA	Analysis	300.0		2			613955	06/23/20 22:37	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613956	06/23/20 22:37	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	100			613956	06/23/20 23:29	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:45	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 16:36	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:01	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:30	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 12:19	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267832-1

Client Sample ID: DW-2

Lab Sample ID: 440-267832-5

Date Collected: 06/23/20 09:55
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 17:40	TCN	TAL IRV
Total/NA	Prep	3520C			1000 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 15:29	HN	TAL IRV
Total/NA	Analysis	300.0		2			613949	06/23/20 21:12	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613950	06/23/20 21:12	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613950	06/23/20 21:28	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:48	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 16:41	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:10	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:30	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 06:56	YZ	TAL IRV

Client Sample ID: DW-3

Lab Sample ID: 440-267832-6

Date Collected: 06/23/20 11:20
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614081	06/24/20 18:08	TCN	TAL IRV
Total/NA	Prep	3520C			1000 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 15:50	HN	TAL IRV
Total/NA	Analysis	300.0		1			613949	06/23/20 21:44	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613950	06/23/20 21:44	NTN	TAL IRV
Total/NA	Analysis	300.0		50			613950	06/23/20 22:00	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 17:51	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 17:12	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:18	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 08:15	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267832-1

Client Sample ID: PZ-4

Lab Sample ID: 440-267832-7

Date Collected: 06/23/20 08:35
Date Received: 06/23/20 18:15

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	RA	1	10 mL	10 mL	614869	06/30/20 14:06	WC	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 15:29	GMA	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 16:11	HN	TAL IRV
Total/NA	Analysis	300.0		1			613949	06/23/20 22:16	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613950	06/23/20 22:16	NTN	TAL IRV
Total/NA	Analysis	300.0		50			613950	06/23/20 22:32	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 18:04	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 17:18	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:27	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 08:27	YZ	TAL IRV

Client Sample ID: MW-1

Lab Sample ID: 440-267832-8

Date Collected: 06/23/20 11:44
Date Received: 06/23/20 18:15

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	RA	1	10 mL	10 mL	614672	06/29/20 08:54	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 16:52	GMA	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 16:33	HN	TAL IRV
Total/NA	Analysis	300.0		1			613949	06/23/20 22:48	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613950	06/23/20 22:48	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	50			613950	06/23/20 23:36	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 18:07	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 17:23	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	614820	06/29/20 16:34	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:36	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 12:32	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267832-1

Client Sample ID: DW-5

Lab Sample ID: 440-267832-9

Date Collected: 06/23/20 12:59
Date Received: 06/23/20 18:15

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	RA	1	10 mL	10 mL	614672	06/29/20 09:23	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 17:20	GMA	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 16:54	HN	TAL IRV
Total/NA	Analysis	300.0		1			613949	06/24/20 00:33	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613950	06/24/20 00:33	NTN	TAL IRV
Total/NA	Analysis	300.0		10			614170	06/25/20 01:15	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			615209	07/01/20 17:09	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 17:28	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:08	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 08:53	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614259	06/24/20 11:14	YZ	TAL IRV

Client Sample ID: MW-5

Lab Sample ID: 440-267832-10

Date Collected: 06/23/20 10:30
Date Received: 06/23/20 18:15

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	RA	1	10 mL	10 mL	614672	06/29/20 09:51	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 17:47	GMA	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 17:15	HN	TAL IRV
Total/NA	Analysis	300.0		2			613949	06/24/20 01:05	NTN	TAL IRV
Total/NA	Analysis	300.0		2			613950	06/24/20 01:05	NTN	TAL IRV
Total/NA	Analysis	300.0		100			613950	06/24/20 01:21	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:25	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 18:10	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614913	06/29/20 17:34	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:08	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 09:05	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 12:48	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267832-1

Client Sample ID: MW13R

Lab Sample ID: 440-267832-11

Date Collected: 06/23/20 08:48
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614640	06/28/20 10:29	A1W	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 18:15	GMA	TAL IRV
Total/NA	Prep	3520C			1005 mL	1.0 mL	614110	06/24/20 08:09	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 17:36	HN	TAL IRV
Total/NA	Analysis	300.0		1			613949	06/24/20 01:37	NTN	TAL IRV
Total/NA	Analysis	300.0		1			613950	06/24/20 01:37	NTN	TAL IRV
Total/NA	Analysis	300.0		50			614170	06/25/20 01:33	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614117	06/24/20 08:26	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			614593	06/26/20 18:13	P1R	TAL IRV
Total/NA	Analysis	350.1		20	0.8 mL	8.0 mL	614913	06/29/20 18:33	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:08	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614135	06/24/20 09:21	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	614326	06/25/20 10:15	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		200	7.5 mL	7.5 mL	614534	06/26/20 13:31	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		10	100 mL	100 mL	614259	06/24/20 09:43	YZ	TAL IRV

Client Sample ID: Field Blank

Lab Sample ID: 440-267832-12

Date Collected: 06/23/20 00:01
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614640	06/28/20 12:22	A1W	TAL IRV

Client Sample ID: Trip Blank

Lab Sample ID: 440-267832-13

Date Collected: 06/23/20 00:01
Date Received: 06/23/20 18:15

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	10 mL	10 mL	614672	06/29/20 12:11	RM	TAL IRV

Laboratory References:

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 440-614081/4
Matrix: Water
Analysis Batch: 614081

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	0.40	ug/L			06/24/20 08:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/24/20 08:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/24/20 08:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/24/20 08:43	1
2-Hexanone	ND		5.0	2.5	ug/L			06/24/20 08:43	1
Acetone	ND		20	10	ug/L			06/24/20 08:43	1
Acetonitrile	ND		20	10	ug/L			06/24/20 08:43	1
Benzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Allyl chloride	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Bromoform	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Bromomethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chloroethane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Chloroform	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Chloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dibromomethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/24/20 08:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Iodomethane	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Isobutyl alcohol	ND		25	13	ug/L			06/24/20 08:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/24/20 08:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/24/20 08:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/24/20 08:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/24/20 08:43	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Naphthalene	ND		1.0	0.40	ug/L			06/24/20 08:43	1

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

Lab Sample ID: MB 440-614081/4
Matrix: Water
Analysis Batch: 614081

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	0.25	ug/L			06/24/20 08:43	1
Propionitrile	ND		20	10	ug/L			06/24/20 08:43	1
Styrene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 08:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/24/20 08:43	1
Toluene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/24/20 08:43	1
Trichloroethene	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/24/20 08:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/24/20 08:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/24/20 08:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/24/20 08:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/24/20 08:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/24/20 08:43	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 08:43*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 08:43*	*1*
4-Bromofluorobenzene (Surr)	*110*		*80 - 120*		*06/24/20 08:43*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/24/20 08:43*	*1*

Lab Sample ID: LCS 440-614081/1002
Matrix: Water
Analysis Batch: 614081

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	25.0	23.2		ug/L		93	63 - 130
1,1,1,2-Tetrachloroethane	25.0	21.6		ug/L		86	60 - 141
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	63 - 130
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	22.2		ug/L		89	64 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	22.6		ug/L		90	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	52 - 140
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	21.5		ug/L		86	57 - 138
1,2-Dichloropropane	25.0	22.5		ug/L		90	67 - 130
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	70 - 130
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	68 - 141

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

Lab Sample ID: LCS 440-614081/1002
Matrix: Water
Analysis Batch: 614081

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	117		ug/L		94	10 - 150
Acetone	125	104		ug/L		83	10 - 150
Benzene	25.0	22.5		ug/L		90	68 - 130
Bromoform	25.0	20.1		ug/L		81	60 - 148
Bromomethane	25.0	21.9		ug/L		88	64 - 139
Carbon disulfide	25.0	22.7		ug/L		91	52 - 136
Carbon tetrachloride	25.0	22.6		ug/L		90	60 - 150
Chlorobenzene	25.0	22.0		ug/L		88	70 - 130
Bromochloromethane	25.0	21.9		ug/L		88	70 - 130
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	22.4		ug/L		90	70 - 130
Chloromethane	25.0	25.2		ug/L		101	47 - 140
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	70 - 133
cis-1,3-Dichloropropene	25.0	22.5		ug/L		90	70 - 133
Dibromochloromethane	25.0	23.0		ug/L		92	69 - 145
Dibromomethane	25.0	22.6		ug/L		90	70 - 130
Bromodichloromethane	25.0	22.6		ug/L		90	70 - 132
Dichlorodifluoromethane	25.0	31.1		ug/L		125	29 - 150
Ethylbenzene	25.0	22.2		ug/L		89	70 - 130
m,p-Xylene	25.0	21.3		ug/L		85	70 - 130
Methylene Chloride	25.0	21.1		ug/L		85	52 - 130
Methyl tert-butyl ether	25.0	20.7		ug/L		83	63 - 131
Naphthalene	25.0	23.1		ug/L		92	60 - 140
o-Xylene	25.0	21.6		ug/L		86	70 - 130
Styrene	25.0	21.9		ug/L		88	70 - 134
t-Butanol	250	239		ug/L		96	70 - 130
Tetrachloroethene	25.0	23.7		ug/L		95	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	70 - 130
trans-1,3-Dichloropropene	25.0	22.5		ug/L		90	70 - 132
Trichloroethene	25.0	22.8		ug/L		91	70 - 130
Trichlorofluoromethane	25.0	25.2		ug/L		101	60 - 150
Vinyl acetate	25.0	27.4		ug/L		110	48 - 140
Vinyl chloride	25.0	26.0		ug/L		104	59 - 133
1,2-Dibromoethane (EDB)	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	112		ug/L		89	44 - 150
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*

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

Lab Sample ID: 440-267785-E-1 MS
Matrix: Water
Analysis Batch: 614081

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	11.2		ug/L		112	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	10.8		ug/L		108	60 - 149
1,1,1-Trichloroethane	ND		10.0	11.1		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	11.1		ug/L		111	63 - 130
1,1,2-Trichloroethane	ND		10.0	10.9		ug/L		109	70 - 130
1,1-Dichloroethane	ND		10.0	11.0		ug/L		110	65 - 130
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130
1,1-Dichloropropene	ND		10.0	11.8		ug/L		118	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.75		ug/L		98	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	10.8		ug/L		108	48 - 140
1,2-Dichlorobenzene	ND		10.0	10.4		ug/L		104	70 - 130
1,2-Dichloroethane	ND		10.0	10.0		ug/L		100	56 - 146
1,2-Dichloropropane	ND		10.0	10.5		ug/L		105	69 - 130
1,3-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130
1,3-Dichloropropane	ND		10.0	11.1		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		10.0	11.2		ug/L		112	70 - 130
2,2-Dichloropropane	ND		10.0	12.9		ug/L		129	69 - 138
2-Hexanone	ND		50.0	63.4		ug/L		127	10 - 150
Acetone	ND		50.0	58.9		ug/L		118	10 - 150
Benzene	ND		10.0	10.8		ug/L		108	66 - 130
Bromoform	ND		10.0	10.0		ug/L		100	59 - 150
Bromomethane	ND		10.0	10.4		ug/L		104	62 - 131
Carbon disulfide	ND		10.0	11.0		ug/L		110	49 - 140
Carbon tetrachloride	ND		10.0	11.2		ug/L		112	60 - 150
Chlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130
Bromochloromethane	ND		10.0	10.2		ug/L		102	70 - 130
Chloroethane	ND		10.0	10.4		ug/L		104	68 - 130
Chloroform	ND		10.0	10.8		ug/L		108	70 - 130
Chloromethane	ND		10.0	11.5		ug/L		115	39 - 144
cis-1,2-Dichloroethene	ND		10.0	10.4		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	70 - 133
Dibromochloromethane	ND		10.0	10.6		ug/L		106	70 - 148
Dibromomethane	ND		10.0	10.4		ug/L		104	70 - 130
Bromodichloromethane	ND		10.0	10.3		ug/L		103	70 - 138
Dichlorodifluoromethane	ND	F1	10.0	14.6	F1	ug/L		146	25 - 142
Ethylbenzene	ND		10.0	11.3		ug/L		113	70 - 130
m,p-Xylene	ND		10.0	11.1		ug/L		111	70 - 133
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130
Methyl tert-butyl ether	ND		10.0	9.91		ug/L		99	70 - 130
Naphthalene	ND		10.0	9.85		ug/L		98	60 - 140
o-Xylene	ND		10.0	10.8		ug/L		108	70 - 133
Styrene	ND		10.0	10.7		ug/L		107	29 - 150
t-Butanol	ND		100	107		ug/L		107	70 - 130
Tetrachloroethene	ND		10.0	11.5		ug/L		115	70 - 137
Toluene	ND		10.0	11.6		ug/L		116	70 - 130
trans-1,2-Dichloroethene	ND		10.0	11.0		ug/L		110	70 - 130
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138
Trichloroethene	ND		10.0	10.6		ug/L		106	70 - 130

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

Lab Sample ID: 440-267785-E-1 MS
Matrix: Water
Analysis Batch: 614081

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
Trichlorofluoromethane	ND		10.0	12.2		ug/L		122	60 - 150
Vinyl acetate	ND	F1	10.0	22.6	F1	ug/L		226	23 - 150
Vinyl chloride	ND		10.0	12.7		ug/L		127	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	11.0		ug/L		110	70 - 131
2-Butanone (MEK)	ND		50.0	60.1		ug/L		120	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	61.0		ug/L		122	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 128*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: 440-267785-F-1 MSD
Matrix: Water
Analysis Batch: 614081

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	12.4		ug/L		124	60 - 130	10	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149	5	20
1,1,1-Trichloroethane	ND		10.0	11.0		ug/L		110	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.3		ug/L		123	63 - 130	10	30
1,1,2-Trichloroethane	ND		10.0	10.8		ug/L		108	70 - 130	1	25
1,1-Dichloroethane	ND		10.0	10.9		ug/L		109	65 - 130	0	20
1,1-Dichloroethene	ND		10.0	11.3		ug/L		113	70 - 130	5	20
1,1-Dichloropropene	ND		10.0	12.0		ug/L		120	64 - 130	2	20
1,2,4-Trichlorobenzene	ND		10.0	9.59		ug/L		96	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.7		ug/L		107	48 - 140	0	30
1,2-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	10.1		ug/L		101	56 - 146	1	20
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	69 - 130	3	20
1,3-Dichlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	ND		10.0	10.8		ug/L		108	70 - 130	3	25
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
2,2-Dichloropropane	ND		10.0	12.8		ug/L		128	69 - 138	1	25
2-Hexanone	ND		50.0	61.2		ug/L		122	10 - 150	4	35
Acetone	ND		50.0	57.8		ug/L		116	10 - 150	2	35
Benzene	ND		10.0	10.7		ug/L		107	66 - 130	1	20
Bromoform	ND		10.0	9.77		ug/L		98	59 - 150	2	25
Bromomethane	ND		10.0	10.7		ug/L		107	62 - 131	3	25
Carbon disulfide	ND		10.0	11.0		ug/L		110	49 - 140	1	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	1	25
Chlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130	1	20
Bromochloromethane	ND		10.0	10.6		ug/L		106	70 - 130	4	25
Chloroethane	ND		10.0	10.5		ug/L		105	68 - 130	1	25
Chloroform	ND		10.0	10.9		ug/L		109	70 - 130	0	20
Chloromethane	ND		10.0	12.0		ug/L		120	39 - 144	4	25
cis-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	10.7		ug/L		107	70 - 133	0	20

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

Lab Sample ID: 440-267785-F-1 MSD
Matrix: Water
Analysis Batch: 614081

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
Dibromochloromethane	ND		10.0	10.4		ug/L		104	70 - 148	2	25
Dibromomethane	ND		10.0	10.6		ug/L		106	70 - 130	2	25
Bromodichloromethane	ND		10.0	10.5		ug/L		105	70 - 138	2	20
Dichlorodifluoromethane	ND	F1	10.0	15.3	F1	ug/L		153	25 - 142	5	30
Ethylbenzene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
m,p-Xylene	ND		10.0	10.9		ug/L		109	70 - 133	2	25
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130	0	20
Methyl tert-butyl ether	ND		10.0	10.2		ug/L		102	70 - 130	3	25
Naphthalene	ND		10.0	9.89		ug/L		99	60 - 140	0	30
o-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	1	20
Styrene	ND		10.0	10.4		ug/L		104	29 - 150	3	35
t-Butanol	ND		100	110		ug/L		110	70 - 130	3	25
Tetrachloroethene	ND		10.0	11.3		ug/L		113	70 - 137	1	20
Toluene	ND		10.0	11.3		ug/L		113	70 - 130	2	20
trans-1,2-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130	1	20
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138	1	25
Trichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	0	20
Trichlorofluoromethane	ND		10.0	12.8		ug/L		128	60 - 150	5	25
Vinyl acetate	ND	F1	10.0	22.7	F1	ug/L		227	23 - 150	0	30
Vinyl chloride	ND		10.0	12.8		ug/L		128	50 - 137	1	30
1,2-Dibromoethane (EDB)	ND		10.0	10.8		ug/L		108	70 - 131	1	25
2-Butanone (MEK)	ND		50.0	60.9		ug/L		122	48 - 140	1	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	59.3		ug/L		119	52 - 150	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: MB 440-614240/4
Matrix: Water
Analysis Batch: 614240

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	0.25	ug/L			06/24/20 20:08	1
t-Butanol	ND		10	5.0	ug/L			06/24/20 20:08	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/24/20 20:08*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*06/24/20 20:08*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*06/24/20 20:08*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/24/20 20:08*	*1*

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

Lab Sample ID: LCS 440-614240/1002
Matrix: Water
Analysis Batch: 614240

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	21.8		ug/L		87	63 - 131
t-Butanol	250	255		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*76 - 132*

Lab Sample ID: 440-267797-B-1 MS
Matrix: Water
Analysis Batch: 614240

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
Methyl tert-butyl ether	ND		200	168		ug/L		84	70 - 130
t-Butanol	ND		2000	2040		ug/L		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*76 - 132*

Lab Sample ID: 440-267797-B-1 MSD
Matrix: Water
Analysis Batch: 614240

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
Methyl tert-butyl ether	ND		200	183		ug/L		91	70 - 130	9	25
t-Butanol	ND		2000	2060		ug/L		103	70 - 130	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: MB 440-614630/4
Matrix: Water
Analysis Batch: 614630

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			06/27/20 15:02	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/27/20 15:02*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 15:02*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/27/20 15:02*	*1*

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

Lab Sample ID: LCS 440-614630/1002
Matrix: Water
Analysis Batch: 614630

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acrolein			24.7	27.1	J	ug/L		110	10 - 145		
Acrylonitrile			250	230		ug/L		92	48 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*76 - 132*

Lab Sample ID: 440-267832-7 MS
Matrix: Water
Analysis Batch: 614630

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		
Acrolein	ND	F1	9.88	16.6	J F1	ug/L		168	10 - 147		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*76 - 132*

Lab Sample ID: 440-267832-7 MSD
Matrix: Water
Analysis Batch: 614630

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
Acrolein	ND	F1	9.88	15.8	J F1	ug/L		160	10 - 147	5	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*76 - 132*

Lab Sample ID: MB 440-614640/4
Matrix: Water
Analysis Batch: 614640

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	0.40	ug/L			06/28/20 10:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/28/20 10:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/28/20 10:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1

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

Lab Sample ID: MB 440-614640/4
Matrix: Water
Analysis Batch: 614640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/28/20 10:01	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/28/20 10:01	1
2-Hexanone	ND		5.0	2.5	ug/L			06/28/20 10:01	1
Acetone	ND		20	10	ug/L			06/28/20 10:01	1
Acetonitrile	ND		20	10	ug/L			06/28/20 10:01	1
Benzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Allyl chloride	ND		1.0	0.50	ug/L			06/28/20 10:01	1
Bromoform	ND		1.0	0.40	ug/L			06/28/20 10:01	1
Bromomethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/28/20 10:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Chloroethane	ND		1.0	0.40	ug/L			06/28/20 10:01	1
Chloroform	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Chloromethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Dibromomethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/28/20 10:01	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 10:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Iodomethane	ND		2.0	1.0	ug/L			06/28/20 10:01	1
Isobutyl alcohol	ND		25	13	ug/L			06/28/20 10:01	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/28/20 10:01	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/28/20 10:01	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/28/20 10:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/28/20 10:01	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Naphthalene	ND		1.0	0.40	ug/L			06/28/20 10:01	1
o-Xylene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Propionitrile	ND		20	10	ug/L			06/28/20 10:01	1
Styrene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
t-Butanol	ND		10	5.0	ug/L			06/28/20 10:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/28/20 10:01	1
Toluene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/28/20 10:01	1
Trichloroethene	ND		0.50	0.25	ug/L			06/28/20 10:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/28/20 10:01	1

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

Lab Sample ID: MB 440-614640/4
Matrix: Water
Analysis Batch: 614640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/28/20 10:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/28/20 10:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/28/20 10:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/28/20 10:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/28/20 10:01	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/28/20 10:01*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 128*		*06/28/20 10:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/28/20 10:01*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/28/20 10:01*	*1*

Lab Sample ID: LCS 440-614640/1002
Matrix: Water
Analysis Batch: 614640

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	25.0	24.8		ug/L		99	63 - 130
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	60 - 141
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	63 - 130
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	26.8		ug/L		107	64 - 130
1,1-Dichloroethene	25.0	27.1		ug/L		108	70 - 130
1,1-Dichloropropene	25.0	27.1		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	52 - 140
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	22.9		ug/L		92	57 - 138
1,2-Dichloropropane	25.0	24.8		ug/L		99	67 - 130
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
2,2-Dichloropropane	25.0	30.1		ug/L		120	68 - 141
2-Hexanone	125	126		ug/L		101	10 - 150
Acetone	125	133		ug/L		106	10 - 150
Benzene	25.0	24.8		ug/L		99	68 - 130
Bromoform	25.0	22.8		ug/L		91	60 - 148
Bromomethane	25.0	23.7		ug/L		95	64 - 139
Carbon disulfide	25.0	26.5		ug/L		106	52 - 136
Carbon tetrachloride	25.0	26.0		ug/L		104	60 - 150
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Bromochloromethane	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	24.2		ug/L		97	64 - 135
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	25.9		ug/L		104	47 - 140

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

Lab Sample ID: LCS 440-614640/1002
Matrix: Water
Analysis Batch: 614640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 133
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 133
Dibromochloromethane	25.0	24.4		ug/L		98	69 - 145
Dibromomethane	25.0	24.3		ug/L		97	70 - 130
Bromodichloromethane	25.0	24.5		ug/L		98	70 - 132
Dichlorodifluoromethane	25.0	33.0		ug/L		132	29 - 150
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
m,p-Xylene	25.0	24.7		ug/L		99	70 - 130
Methylene Chloride	25.0	24.5		ug/L		98	52 - 130
Methyl tert-butyl ether	25.0	23.4		ug/L		94	63 - 131
Naphthalene	25.0	22.6		ug/L		91	60 - 140
o-Xylene	25.0	24.6		ug/L		98	70 - 130
Styrene	25.0	23.9		ug/L		96	70 - 134
t-Butanol	250	257		ug/L		103	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 132
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	28.8		ug/L		115	60 - 150
Vinyl acetate	25.0	30.4		ug/L		122	48 - 140
Vinyl chloride	25.0	27.2		ug/L		109	59 - 133
1,2-Dibromoethane (EDB)	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	132		ug/L		106	44 - 150
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*76 - 132*

Lab Sample ID: 720-98995-B-1 MS
Matrix: Water
Analysis Batch: 614640

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	9.88		ug/L		99	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	9.56		ug/L		96	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130
1,1,2-Trichloroethane	ND		10.0	9.42		ug/L		94	70 - 130
1,1-Dichloroethane	ND		10.0	10.3		ug/L		103	65 - 130
1,1-Dichloroethene	ND		10.0	9.92		ug/L		99	70 - 130
1,1-Dichloropropene	ND		10.0	10.3		ug/L		103	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.77		ug/L		98	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	9.33		ug/L		93	48 - 140
1,2-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 130
1,2-Dichloroethane	ND		10.0	8.89		ug/L		89	56 - 146

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

Lab Sample ID: 720-98995-B-1 MS
Matrix: Water
Analysis Batch: 614640

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-Dichloropropane	ND		10.0	9.90		ug/L		99	69 - 130
1,3-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130
1,3-Dichloropropane	ND		10.0	9.48		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130
2,2-Dichloropropane	ND		10.0	12.2		ug/L		122	69 - 138
2-Hexanone	ND		50.0	51.3		ug/L		103	10 - 150
Acetone	ND		50.0	50.8		ug/L		102	10 - 150
Benzene	ND		10.0	9.84		ug/L		98	66 - 130
Bromoform	ND		10.0	8.26		ug/L		83	59 - 150
Bromomethane	ND		10.0	9.33		ug/L		93	62 - 131
Carbon disulfide	ND		10.0	10.3		ug/L		103	49 - 140
Carbon tetrachloride	ND		10.0	10.0		ug/L		100	60 - 150
Chlorobenzene	ND		10.0	9.75		ug/L		97	70 - 130
Bromochloromethane	ND		10.0	9.55		ug/L		95	70 - 130
Chloroethane	ND		10.0	10.0		ug/L		100	68 - 130
Chloroform	ND		10.0	10.0		ug/L		100	70 - 130
Chloromethane	ND		10.0	10.6		ug/L		106	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.73		ug/L		97	70 - 130
cis-1,3-Dichloropropene	ND		10.0	8.54		ug/L		85	70 - 133
Dibromochloromethane	ND		10.0	9.64		ug/L		96	70 - 148
Dibromomethane	ND		10.0	9.72		ug/L		97	70 - 130
Bromodichloromethane	ND		10.0	9.87		ug/L		99	70 - 138
Dichlorodifluoromethane	ND		10.0	12.1		ug/L		121	25 - 142
Ethylbenzene	ND		10.0	10.1		ug/L		101	70 - 130
m,p-Xylene	ND		10.0	9.91		ug/L		99	70 - 133
Methylene Chloride	ND		10.0	9.14		ug/L		91	52 - 130
Methyl tert-butyl ether	ND		10.0	9.30		ug/L		93	70 - 130
Naphthalene	ND		10.0	9.76		ug/L		98	60 - 140
o-Xylene	ND		10.0	9.83		ug/L		98	70 - 133
Styrene	ND		10.0	9.75		ug/L		97	29 - 150
t-Butanol	ND		100	98.0		ug/L		98	70 - 130
Tetrachloroethene	0.70	F1	10.0	15.7	F1	ug/L		150	70 - 137
Toluene	ND		10.0	10.2		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		10.0	8.95		ug/L		90	70 - 138
Trichloroethene	ND		10.0	9.50		ug/L		95	70 - 130
Trichlorofluoromethane	ND		10.0	10.1		ug/L		101	60 - 150
Vinyl acetate	ND		10.0	11.6		ug/L		116	23 - 150
Vinyl chloride	ND		10.0	11.0		ug/L		110	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	9.81		ug/L		98	70 - 131
2-Butanone (MEK)	ND		50.0	49.3		ug/L		99	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	45.9		ug/L		92	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*

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

Lab Sample ID: 720-98995-C-1 MSD
Matrix: Water
Analysis Batch: 614640

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	9.95		ug/L		100	60 - 130	1	30
1,1,1,2-Tetrachloroethane	ND		10.0	9.96		ug/L		100	60 - 149	4	20
1,1,1-Trichloroethane	ND		10.0	10.2		ug/L		102	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.2		ug/L		102	63 - 130	5	30
1,1,2-Trichloroethane	ND		10.0	9.71		ug/L		97	70 - 130	3	25
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	65 - 130	2	20
1,1-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 130	8	20
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130	3	20
1,2,4-Trichlorobenzene	ND		10.0	9.28		ug/L		93	60 - 140	5	20
1,2-Dibromo-3-Chloropropane	ND		10.0	9.57		ug/L		96	48 - 140	3	30
1,2-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	ND		10.0	9.42		ug/L		94	56 - 146	6	20
1,2-Dichloropropane	ND		10.0	10.1		ug/L		101	69 - 130	2	20
1,3-Dichlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	ND		10.0	9.67		ug/L		97	70 - 130	2	25
1,4-Dichlorobenzene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
2,2-Dichloropropane	ND		10.0	11.3		ug/L		113	69 - 138	8	25
2-Hexanone	ND		50.0	49.4		ug/L		99	10 - 150	4	35
Acetone	ND		50.0	55.0		ug/L		110	10 - 150	8	35
Benzene	ND		10.0	9.98		ug/L		100	66 - 130	1	20
Bromoform	ND		10.0	8.75		ug/L		87	59 - 150	6	25
Bromomethane	ND		10.0	9.73		ug/L		97	62 - 131	4	25
Carbon disulfide	ND		10.0	10.6		ug/L		106	49 - 140	3	20
Carbon tetrachloride	ND		10.0	9.89		ug/L		99	60 - 150	1	25
Chlorobenzene	ND		10.0	10.2		ug/L		102	70 - 130	4	20
Bromochloromethane	ND		10.0	9.63		ug/L		96	70 - 130	1	25
Chloroethane	ND		10.0	9.87		ug/L		99	68 - 130	2	25
Chloroform	ND		10.0	9.92		ug/L		99	70 - 130	1	20
Chloromethane	ND		10.0	10.6		ug/L		106	39 - 144	0	25
cis-1,2-Dichloroethene	ND		10.0	9.87		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	ND		10.0	9.65		ug/L		96	70 - 133	12	20
Dibromochloromethane	ND		10.0	9.39		ug/L		94	70 - 148	3	25
Dibromomethane	ND		10.0	9.70		ug/L		97	70 - 130	0	25
Bromodichloromethane	ND		10.0	9.97		ug/L		100	70 - 138	1	20
Dichlorodifluoromethane	ND		10.0	13.1		ug/L		131	25 - 142	8	30
Ethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130	0	20
m,p-Xylene	ND		10.0	9.85		ug/L		98	70 - 133	1	25
Methylene Chloride	ND		10.0	9.74		ug/L		97	52 - 130	6	20
Methyl tert-butyl ether	ND		10.0	9.66		ug/L		97	70 - 130	4	25
Naphthalene	ND		10.0	9.35		ug/L		93	60 - 140	4	30
o-Xylene	ND		10.0	9.59		ug/L		96	70 - 133	2	20
Styrene	ND		10.0	9.65		ug/L		96	29 - 150	1	35
t-Butanol	ND		100	104		ug/L		104	70 - 130	6	25
Tetrachloroethene	0.70	F1	10.0	14.4		ug/L		137	70 - 137	9	20
Toluene	ND		10.0	10.3		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	3	20
trans-1,3-Dichloropropene	ND		10.0	9.37		ug/L		94	70 - 138	5	25
Trichloroethene	ND		10.0	10.0		ug/L		100	70 - 130	6	20

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

Lab Sample ID: 720-98995-C-1 MSD
Matrix: Water
Analysis Batch: 614640

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
Trichlorofluoromethane	ND		10.0	10.8		ug/L		108	60 - 150	7	25
Vinyl acetate	ND		10.0	11.6		ug/L		116	23 - 150	0	30
Vinyl chloride	ND		10.0	10.7		ug/L		107	50 - 137	3	30
1,2-Dibromoethane (EDB)	ND		10.0	10.1		ug/L		101	70 - 131	3	25
2-Butanone (MEK)	ND		50.0	51.9		ug/L		104	48 - 140	5	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	48.3		ug/L		97	52 - 150	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: MB 440-614672/4
Matrix: Water
Analysis Batch: 614672

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	0.40	ug/L			06/29/20 08:18	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/29/20 08:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/29/20 08:18	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/29/20 08:18	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/29/20 08:18	1
2-Hexanone	ND		5.0	2.5	ug/L			06/29/20 08:18	1
Acetone	ND		20	10	ug/L			06/29/20 08:18	1
Acetonitrile	ND		20	10	ug/L			06/29/20 08:18	1
Benzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Allyl chloride	ND		1.0	0.50	ug/L			06/29/20 08:18	1
Bromoform	ND		1.0	0.40	ug/L			06/29/20 08:18	1
Bromomethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/29/20 08:18	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Chloroethane	ND		1.0	0.40	ug/L			06/29/20 08:18	1
Chloroform	ND		0.50	0.25	ug/L			06/29/20 08:18	1

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

Lab Sample ID: MB 440-614672/4
Matrix: Water
Analysis Batch: 614672

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Dibromomethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/29/20 08:18	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/29/20 08:18	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Iodomethane	ND		2.0	1.0	ug/L			06/29/20 08:18	1
Isobutyl alcohol	ND		25	13	ug/L			06/29/20 08:18	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/29/20 08:18	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/29/20 08:18	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/29/20 08:18	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/29/20 08:18	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Naphthalene	ND		1.0	0.40	ug/L			06/29/20 08:18	1
o-Xylene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Propionitrile	ND		20	10	ug/L			06/29/20 08:18	1
Styrene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
t-Butanol	ND		10	5.0	ug/L			06/29/20 08:18	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/29/20 08:18	1
Toluene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/29/20 08:18	1
Trichloroethene	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/29/20 08:18	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 08:18	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/29/20 08:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/29/20 08:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 08:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/29/20 08:18	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.68*	*T J*	*ug/L*		*2.59*			*06/29/20 08:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 128*		*06/29/20 08:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 08:18*	*1*
Dibromofluoromethane (Surr)	*86*		*76 - 132*		*06/29/20 08:18*	*1*

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

Lab Sample ID: LCS 440-614672/1002
Matrix: Water
Analysis Batch: 614672

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	25.0	22.6		ug/L		90	63 - 130
1,1,1,2-Tetrachloroethane	25.0	21.5		ug/L		86	60 - 141
1,1,1-Trichloroethane	25.0	22.1		ug/L		88	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	63 - 130
1,1,2-Trichloroethane	25.0	21.3		ug/L		85	70 - 130
1,1-Dichloroethane	25.0	23.0		ug/L		92	64 - 130
1,1-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	25.0	20.9		ug/L		84	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	52 - 140
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	20.9		ug/L		83	57 - 138
1,2-Dichloropropane	25.0	23.0		ug/L		92	67 - 130
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	21.8		ug/L		87	70 - 130
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	26.8		ug/L		107	68 - 141
2-Hexanone	125	113		ug/L		91	10 - 150
Acetone	125	116		ug/L		93	10 - 150
Benzene	25.0	22.7		ug/L		91	68 - 130
Bromoform	25.0	20.7		ug/L		83	60 - 148
Bromomethane	25.0	19.7		ug/L		79	64 - 139
Carbon disulfide	25.0	22.1		ug/L		88	52 - 136
Carbon tetrachloride	25.0	22.5		ug/L		90	60 - 150
Chlorobenzene	25.0	21.7		ug/L		87	70 - 130
Bromochloromethane	25.0	21.5		ug/L		86	70 - 130
Chloroethane	25.0	21.0		ug/L		84	64 - 135
Chloroform	25.0	22.0		ug/L		88	70 - 130
Chloromethane	25.0	21.8		ug/L		87	47 - 140
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	70 - 133
cis-1,3-Dichloropropene	25.0	21.6		ug/L		86	70 - 133
Dibromochloromethane	25.0	21.9		ug/L		87	69 - 145
Dibromomethane	25.0	22.0		ug/L		88	70 - 130
Bromodichloromethane	25.0	22.0		ug/L		88	70 - 132
Dichlorodifluoromethane	25.0	25.4		ug/L		102	29 - 150
Ethylbenzene	25.0	21.6		ug/L		86	70 - 130
m,p-Xylene	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	21.1		ug/L		84	52 - 130
Methyl tert-butyl ether	25.0	21.0		ug/L		84	63 - 131
Naphthalene	25.0	22.1		ug/L		89	60 - 140
o-Xylene	25.0	20.1		ug/L		80	70 - 130
Styrene	25.0	20.4		ug/L		82	70 - 134
t-Butanol	250	238		ug/L		95	70 - 130
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130
Toluene	25.0	22.5		ug/L		90	70 - 130
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130
trans-1,3-Dichloropropene	25.0	21.3		ug/L		85	70 - 132
Trichloroethene	25.0	22.4		ug/L		90	70 - 130

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

Lab Sample ID: LCS 440-614672/1002
Matrix: Water
Analysis Batch: 614672

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	24.4		ug/L		98	60 - 150
Vinyl acetate	25.0	26.0		ug/L		104	48 - 140
Vinyl chloride	25.0	22.5		ug/L		90	59 - 133
1,2-Dibromoethane (EDB)	25.0	22.2		ug/L		89	70 - 130
2-Butanone (MEK)	125	116		ug/L		93	44 - 150
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		88	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*76 - 132*

Lab Sample ID: 320-62119-F-1 MS
Matrix: Water
Analysis Batch: 614672

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	10.7		ug/L		107	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	10.4		ug/L		104	60 - 149
1,1,1-Trichloroethane	ND		10.0	10.9		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	11.0		ug/L		110	63 - 130
1,1,2-Trichloroethane	ND		10.0	9.99		ug/L		100	70 - 130
1,1-Dichloroethane	ND		10.0	10.4		ug/L		104	65 - 130
1,1-Dichloroethene	ND		10.0	11.1		ug/L		111	70 - 130
1,1-Dichloropropene	ND		10.0	11.2		ug/L		112	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	10.4		ug/L		104	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	10.6		ug/L		106	48 - 140
1,2-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130
1,2-Dichloroethane	ND		10.0	9.49		ug/L		95	56 - 146
1,2-Dichloropropane	ND		10.0	10.4		ug/L		104	69 - 130
1,3-Dichlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130
1,3-Dichloropropane	ND		10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	3.2		10.0	13.6		ug/L		104	70 - 130
2,2-Dichloropropane	ND		10.0	11.8		ug/L		118	69 - 138
2-Hexanone	ND		50.0	56.6		ug/L		113	10 - 150
Acetone	ND		50.0	55.0		ug/L		110	10 - 150
Benzene	1.2		10.0	11.6		ug/L		104	66 - 130
Bromoform	ND		10.0	9.78		ug/L		98	59 - 150
Bromomethane	ND		10.0	9.18		ug/L		92	62 - 131
Carbon disulfide	ND		10.0	10.3		ug/L		103	49 - 140
Carbon tetrachloride	ND		10.0	10.8		ug/L		108	60 - 150
Chlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130
Bromochloromethane	ND		10.0	9.96		ug/L		100	70 - 130
Chloroethane	ND		10.0	9.71		ug/L		97	68 - 130
Chloroform	ND		10.0	10.3		ug/L		103	70 - 130
Chloromethane	ND		10.0	10.4		ug/L		104	39 - 144
cis-1,2-Dichloroethene	0.42	J	10.0	10.6		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 133

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

Lab Sample ID: 320-62119-F-1 MS
Matrix: Water
Analysis Batch: 614672

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
Dibromochloromethane	ND		10.0	10.2		ug/L		102	70 - 148
Dibromomethane	ND		10.0	9.67		ug/L		97	70 - 130
Bromodichloromethane	ND		10.0	9.82		ug/L		98	70 - 138
Dichlorodifluoromethane	ND		10.0	12.7		ug/L		127	25 - 142
Ethylbenzene	ND		10.0	10.8		ug/L		108	70 - 130
m,p-Xylene	4.6		10.0	15.3		ug/L		107	70 - 133
Methylene Chloride	ND		10.0	9.32		ug/L		93	52 - 130
Methyl tert-butyl ether	ND		10.0	9.31		ug/L		93	70 - 130
Naphthalene	1.8		10.0	13.0		ug/L		112	60 - 140
o-Xylene	1.5		10.0	12.0		ug/L		105	70 - 133
Styrene	ND		10.0	10.4		ug/L		104	29 - 150
t-Butanol	1300		100	1420	4	ug/L		120	70 - 130
Tetrachloroethene	ND		10.0	13.0		ug/L		130	70 - 137
Toluene	ND		10.0	11.3		ug/L		113	70 - 130
trans-1,2-Dichloroethene	ND		10.0	10.8		ug/L		108	70 - 130
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138
Trichloroethene	ND		10.0	10.6		ug/L		106	70 - 130
Trichlorofluoromethane	ND		10.0	9.60		ug/L		96	60 - 150
Vinyl acetate	ND		10.0	11.5		ug/L		115	23 - 150
Vinyl chloride	ND		10.0	11.3		ug/L		113	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	10.3		ug/L		103	70 - 131
2-Butanone (MEK)	ND		50.0	55.1		ug/L		110	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	56.6		ug/L		113	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

Lab Sample ID: 320-62119-G-1 MSD
Matrix: Water
Analysis Batch: 614672

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	10.8		ug/L		108	60 - 130	1	30
1,1,1,2-Tetrachloroethane	ND		10.0	10.3		ug/L		103	60 - 149	1	20
1,1,1-Trichloroethane	ND		10.0	11.0		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		10.0	10.7		ug/L		107	63 - 130	2	30
1,1,2-Trichloroethane	ND		10.0	9.80		ug/L		98	70 - 130	2	25
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	65 - 130	1	20
1,1-Dichloroethene	ND		10.0	10.5		ug/L		105	70 - 130	6	20
1,1-Dichloropropene	ND		10.0	11.4		ug/L		114	64 - 130	2	20
1,2,4-Trichlorobenzene	ND		10.0	10.4		ug/L		104	60 - 140	1	20
1,2-Dibromo-3-Chloropropane	ND		10.0	11.0		ug/L		110	48 - 140	3	30
1,2-Dichlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130	1	20
1,2-Dichloroethane	ND		10.0	9.57		ug/L		96	56 - 146	1	20
1,2-Dichloropropane	ND		10.0	10.3		ug/L		103	69 - 130	1	20
1,3-Dichlorobenzene	ND		10.0	10.6		ug/L		106	70 - 130	1	20

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

Lab Sample ID: 320-62119-G-1 MSD
Matrix: Water
Analysis Batch: 614672

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
1,3-Dichloropropane	ND		10.0	9.91		ug/L		99	70 - 130	4	25
1,4-Dichlorobenzene	3.2		10.0	13.7		ug/L		104	70 - 130	1	20
2,2-Dichloropropane	ND		10.0	12.9		ug/L		129	69 - 138	8	25
2-Hexanone	ND		50.0	54.9		ug/L		110	10 - 150	3	35
Acetone	ND		50.0	61.2		ug/L		122	10 - 150	11	35
Benzene	1.2		10.0	11.7		ug/L		105	66 - 130	0	20
Bromoform	ND		10.0	9.60		ug/L		96	59 - 150	2	25
Bromomethane	ND		10.0	9.34		ug/L		93	62 - 131	2	25
Carbon disulfide	ND		10.0	10.2		ug/L		102	49 - 140	1	20
Carbon tetrachloride	ND		10.0	11.1		ug/L		111	60 - 150	3	25
Chlorobenzene	ND		10.0	10.5		ug/L		105	70 - 130	1	20
Bromochloromethane	ND		10.0	10.0		ug/L		100	70 - 130	1	25
Chloroethane	ND		10.0	9.95		ug/L		100	68 - 130	3	25
Chloroform	ND		10.0	10.5		ug/L		105	70 - 130	2	20
Chloromethane	ND		10.0	10.3		ug/L		103	39 - 144	1	25
cis-1,2-Dichloroethene	0.42	J	10.0	10.6		ug/L		102	70 - 130	0	20
cis-1,3-Dichloropropene	ND		10.0	10.1		ug/L		101	70 - 133	3	20
Dibromochloromethane	ND		10.0	10.0		ug/L		100	70 - 148	2	25
Dibromomethane	ND		10.0	9.89		ug/L		99	70 - 130	2	25
Bromodichloromethane	ND		10.0	10.2		ug/L		102	70 - 138	4	20
Dichlorodifluoromethane	ND		10.0	13.2		ug/L		132	25 - 142	3	30
Ethylbenzene	ND		10.0	10.7		ug/L		107	70 - 130	1	20
m,p-Xylene	4.6		10.0	15.2		ug/L		106	70 - 133	1	25
Methylene Chloride	ND		10.0	9.22		ug/L		92	52 - 130	1	20
Methyl tert-butyl ether	ND		10.0	9.75		ug/L		98	70 - 130	5	25
Naphthalene	1.8		10.0	13.3		ug/L		115	60 - 140	2	30
o-Xylene	1.5		10.0	11.9		ug/L		104	70 - 133	1	20
Styrene	ND		10.0	10.4		ug/L		104	29 - 150	0	35
t-Butanol	1300		100	1480	4	ug/L		174	70 - 130	4	25
Tetrachloroethene	ND		10.0	12.5		ug/L		125	70 - 137	4	20
Toluene	ND		10.0	10.9		ug/L		109	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.6		ug/L		106	70 - 130	1	20
trans-1,3-Dichloropropene	ND		10.0	10.2		ug/L		102	70 - 138	2	25
Trichloroethene	ND		10.0	10.8		ug/L		108	70 - 130	2	20
Trichlorofluoromethane	ND		10.0	10.6		ug/L		106	60 - 150	10	25
Vinyl acetate	ND		10.0	11.5		ug/L		115	23 - 150	0	30
Vinyl chloride	ND		10.0	11.3		ug/L		113	50 - 137	1	30
1,2-Dibromoethane (EDB)	ND		10.0	10.2		ug/L		102	70 - 131	0	25
2-Butanone (MEK)	ND		50.0	56.6		ug/L		113	48 - 140	3	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	54.8		ug/L		110	52 - 150	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

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

Lab Sample ID: MB 440-614869/4
Matrix: Water
Analysis Batch: 614869

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/30/20 08:22	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/30/20 08:22	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.57*	*T J*	*ug/L*		*2.56*			*06/30/20 08:22*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/30/20 08:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/30/20 08:22*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/30/20 08:22*	*1*

Lab Sample ID: LCS 440-614869/1002
Matrix: Water
Analysis Batch: 614869

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	25.0	29.1		ug/L		116	48 - 140
2-Butanone (MEK)	125	128		ug/L		103	44 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 128*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

Lab Sample ID: 720-99012-B-4 MS
Matrix: Water
Analysis Batch: 614869

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
Vinyl acetate	ND		10.0	11.5		ug/L		115	23 - 150
2-Butanone (MEK)	ND		50.0	50.4		ug/L		101	48 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 128*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Lab Sample ID: 720-99012-C-4 MSD
Matrix: Water
Analysis Batch: 614869

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
Vinyl acetate	ND		10.0	11.4		ug/L		114	23 - 150	1	30
2-Butanone (MEK)	ND		50.0	49.4		ug/L		99	48 - 140	2	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*

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

Lab Sample ID: 720-99012-C-4 MSD
Matrix: Water
Analysis Batch: 614869

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	95		76 - 132

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

Lab Sample ID: MB 440-614108/1-A
Matrix: Water
Analysis Batch: 614335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/24/20 08:02	06/25/20 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	53		30 - 120	06/24/20 08:02	06/25/20 11:55	1

Lab Sample ID: LCS 440-614108/2-A
Matrix: Water
Analysis Batch: 614335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 614108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.14		ug/L		57	35 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8 (Surr)	53		30 - 120

Lab Sample ID: LCSD 440-614108/3-A
Matrix: Water
Analysis Batch: 614487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 614108

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.00	1.18		ug/L		59	35 - 120	NaN	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Dioxane-d8 (Surr)	56		30 - 120

Lab Sample ID: MB 440-614110/1-A
Matrix: Water
Analysis Batch: 614487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/24/20 08:09	06/26/20 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	51		30 - 120	06/24/20 08:09	06/26/20 11:58	1

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

Lab Sample ID: LCS 440-614110/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614487 — **Prep Batch: 614110**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.21		ug/L		60	35 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*58*		*30 - 120*

Lab Sample ID: LCSD 440-614110/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614487 — **Prep Batch: 614110**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.00	1.25		ug/L		63	35 - 120	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*57*		*30 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-613949/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 12:34	1

Lab Sample ID: LCS 440-613949/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.15		mg/L		101	90 - 110

Lab Sample ID: 440-267832-8 MS — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.13	1.09		mg/L		96	80 - 120

Lab Sample ID: 440-267832-8 MSD — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		1.13	1.11		mg/L		98	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-267832-11 MS — **Client Sample ID: MW13R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.13	1.11		mg/L		98	80 - 120

Lab Sample ID: 440-267832-11 MSD — **Client Sample ID: MW13R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		1.13	1.11		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 440-613950/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 12:34	1
Chloride	ND		0.50	0.25	mg/L			06/23/20 12:34	1
Fluoride	ND		0.50	0.25	mg/L			06/23/20 12:34	1
Sulfate	ND		0.50	0.25	mg/L			06/23/20 12:34	1

Lab Sample ID: LCS 440-613950/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.02		mg/L		100	90 - 110
Chloride	5.00	4.88		mg/L		98	90 - 110
Fluoride	5.00	4.79		mg/L		96	90 - 110
Sulfate	5.00	5.31		mg/L		106	90 - 110

Lab Sample ID: 440-267832-8 MS — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	1.9		5.00	7.25		mg/L		107	80 - 120
Chloride	230	E	5.00	229	E 4	mg/L		65	80 - 120
Fluoride	2.7		5.00	7.46		mg/L		94	80 - 120
Sulfate	1200	E	5.00	1160	E 4	mg/L		22	80 - 120

Lab Sample ID: 440-267832-8 MSD — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	1.9		5.00	7.33		mg/L		108	80 - 120	1	20
Chloride	230	E	5.00	229	E 4	mg/L		64	80 - 120	0	20
Fluoride	2.7		5.00	7.60		mg/L		97	80 - 120	2	20
Sulfate	1200	E	5.00	1160	E 4	mg/L		31	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-267832-11 MS — **Client Sample ID: MW13R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	1.8		5.00	6.73		mg/L		98	80 - 120
Chloride	160	E	5.00	171	E 4	mg/L		150	80 - 120
Fluoride	0.74		5.00	5.72		mg/L		100	80 - 120
Sulfate	27		5.00	33.3	4	mg/L		117	80 - 120

Lab Sample ID: 440-267832-11 MSD — **Client Sample ID: MW13R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613950

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	1.8		5.00	6.73		mg/L		98	80 - 120	0	20
Chloride	160	E	5.00	171	E 4	mg/L		165	80 - 120	0	20
Fluoride	0.74		5.00	5.72		mg/L		100	80 - 120	0	20
Sulfate	27		5.00	36.9	4	mg/L		189	80 - 120	10	20

Lab Sample ID: MB 440-613955/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/23/20 12:37	1

Lab Sample ID: LCS 440-613955/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.15		mg/L		102	90 - 110

Lab Sample ID: 440-267832-4 MS — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		2.26	2.67		mg/L		118	80 - 120

Lab Sample ID: 440-267832-4 MSD — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		2.26	2.71		mg/L		120	80 - 120	1	20

Lab Sample ID: MB 440-613956/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/23/20 12:37	1
Chloride	ND		0.50	0.25	mg/L			06/23/20 12:37	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 440-613956/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613956

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.50	0.25	mg/L			06/23/20 12:37	1
Sulfate	ND		0.50	0.25	mg/L			06/23/20 12:37	1

Lab Sample ID: LCS 440-613956/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.04		mg/L		101	90 - 110
Chloride	5.00	4.88		mg/L		98	90 - 110
Fluoride	5.00	4.66		mg/L		93	90 - 110
Sulfate	5.00	4.87		mg/L		97	90 - 110

Lab Sample ID: 440-267832-4 MS — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	3.1		10.0	12.4		mg/L		93	80 - 120
Chloride	300	E	10.0	314	E 4	mg/L		139	80 - 120
Fluoride	1.3		10.0	11.1		mg/L		98	80 - 120
Sulfate	2500	E	10.0	2470	E 4	mg/L		73	80 - 120

Lab Sample ID: 440-267832-4 MSD — **Client Sample ID: MW-9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 613956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	3.1		10.0	12.4		mg/L		93	80 - 120	0	20
Chloride	300	E	10.0	315	E 4	mg/L		144	80 - 120	0	20
Fluoride	1.3		10.0	11.1		mg/L		98	80 - 120	0	20
Sulfate	2500	E	10.0	2470	E 4	mg/L		112	80 - 120	0	20

Lab Sample ID: MB 440-614170/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			06/24/20 13:28	1

Lab Sample ID: LCS 440-614170/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614170

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.61		mg/L		92	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 440-267963-J-6 MS
Matrix: Water
Analysis Batch: 614170

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	470	E	5.00	471	E 4	mg/L		-21	80 - 120

Lab Sample ID: 440-267963-J-6 MSD
Matrix: Water
Analysis Batch: 614170

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	470	E	5.00	472	E 4	mg/L		-8	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-614117/1-A
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/24/20 08:25	06/26/20 16:49	1
Calcium	0.0830	J	0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:49	1
Iron	ND		0.10	0.050	mg/L		06/24/20 08:25	06/26/20 16:49	1
Magnesium	ND		0.020	0.010	mg/L		06/24/20 08:25	06/26/20 16:49	1
Manganese	ND		0.020	0.015	mg/L		06/24/20 08:25	06/26/20 16:49	1
Potassium	ND		0.50	0.25	mg/L		06/24/20 08:25	06/26/20 16:49	1
Sodium	ND		0.50	0.26	mg/L		06/24/20 08:25	06/26/20 16:49	1

Lab Sample ID: LCS 440-614117/2-A
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.999		mg/L		100	80 - 120
Calcium	5.00	5.04		mg/L		101	80 - 120
Iron	1.00	1.04		mg/L		104	80 - 120
Magnesium	5.00	4.91		mg/L		98	80 - 120
Manganese	1.00	0.996		mg/L		100	80 - 120
Potassium	10.0	9.95		mg/L		100	80 - 120
Sodium	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: 440-267785-I-1-B MS
Matrix: Water
Analysis Batch: 614593

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 614117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.7		1.00	2.66		mg/L		100	75 - 125
Calcium	360	B	5.00	352	4	mg/L		-96	75 - 125
Iron	15		1.00	16.0	4	mg/L		62	75 - 125
Magnesium	230		5.00	225	4	mg/L		-94	75 - 125
Manganese	2.6		1.00	3.51		mg/L		92	75 - 125
Potassium	14		10.0	24.3		mg/L		104	75 - 125
Sodium	400		10.0	403	4	mg/L		12	75 - 125

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

Lab Sample ID: 440-267785-I-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 614593 — **Prep Batch: 614117**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	1.7		1.00	2.76		mg/L		110	75 - 125	4	20
Calcium	360	B	5.00	372	4	mg/L		312	75 - 125	6	20
Iron	15		1.00	17.1	4	mg/L		167	75 - 125	6	20
Magnesium	230		5.00	247	4	mg/L		342	75 - 125	9	20
Manganese	2.6		1.00	3.65		mg/L		105	75 - 125	4	20
Potassium	14		10.0	25.1		mg/L		113	75 - 125	4	20
Sodium	400		10.0	424	4	mg/L		216	75 - 125	5	20

Lab Sample ID: MB 440-614362/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 615209 — **Prep Batch: 614362**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/25/20 12:57	07/01/20 15:46	1
Calcium	0.0648	J	0.10	0.050	mg/L		06/25/20 12:57	07/01/20 15:46	1
Iron	ND		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 15:46	1
Magnesium	ND		0.020	0.010	mg/L		06/25/20 12:57	07/01/20 15:46	1
Manganese	ND		0.020	0.015	mg/L		06/25/20 12:57	07/01/20 15:46	1
Potassium	ND		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 15:46	1
Sodium	1.47		0.50	0.26	mg/L		06/25/20 12:57	07/01/20 15:46	1

Lab Sample ID: LCS 440-614362/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 615209 — **Prep Batch: 614362**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.04		mg/L		104	80 - 120
Calcium	5.00	5.27		mg/L		105	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Magnesium	5.00	5.13		mg/L		103	80 - 120
Manganese	1.00	1.03		mg/L		103	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120
Sodium	10.0	11.5		mg/L		115	80 - 120

Lab Sample ID: 440-267923-K-1-B MS ^2 — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 615209 — **Prep Batch: 614362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.64		1.00	1.58		mg/L		94	75 - 125
Calcium	190	B	5.00	183	4	mg/L		-136	75 - 125
Iron	2.0		1.00	2.78		mg/L		83	75 - 125
Magnesium	130		5.00	130	4	mg/L		-23	75 - 125
Manganese	0.12		1.00	1.06		mg/L		94	75 - 125
Potassium	4.3		10.0	13.7		mg/L		94	75 - 125
Sodium	490	B	10.0	470	4	mg/L		-214	75 - 125

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

Lab Sample ID: 440-267923-K-1-C MSD ^2 — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 615209 — **Prep Batch: 614362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.64		1.00	1.70		mg/L		106	75 - 125	7	20
Calcium	190	B	5.00	196	4	mg/L		125	75 - 125	7	20
Iron	2.0		1.00	3.00		mg/L		105	75 - 125	7	20
Magnesium	130		5.00	144	4	mg/L		256	75 - 125	10	20
Manganese	0.12		1.00	1.13		mg/L		101	75 - 125	7	20
Potassium	4.3		10.0	14.6		mg/L		104	75 - 125	7	20
Sodium	490	B	10.0	504	4	mg/L		124	75 - 125	7	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-614913/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			06/29/20 15:54	1

Lab Sample ID: LCS 440-614913/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.19		mg/L		104	90 - 110

Lab Sample ID: MRL 440-614913/9 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.228		mg/L		114	50 - 150

Lab Sample ID: 440-267785-J-5 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	ND	F1	5.00	6.01	F1	mg/L		120	90 - 110

Lab Sample ID: 440-267785-J-5 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614913

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	5.31		mg/L		106	90 - 110	12	15

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 440-614986/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.20	0.10	mg/L			06/30/20 10:59	1

Lab Sample ID: LCS 440-614986/11 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.17		mg/L		103	90 - 110

Lab Sample ID: MRL 440-614986/9 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614986

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.200	0.199	J	mg/L		100	50 - 150

Lab Sample ID: 440-268130-C-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	4.9	F1	5.00	9.34		mg/L		90	90 - 110

Lab Sample ID: 440-268130-C-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	4.9	F1	5.00	9.15	F1	mg/L		86	90 - 110	2	15

Method: 410.4 - COD

Lab Sample ID: MB 440-614820/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/29/20 16:32	1

Lab Sample ID: LCS 440-614820/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	198		mg/L		99	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 440-267861-I-12 MS
Matrix: Water
Analysis Batch: 614820

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	ND		200	186		mg/L		93	70 - 120		

Lab Sample ID: 440-267861-I-12 MSD
Matrix: Water
Analysis Batch: 614820

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	ND		200	186		mg/L		93	70 - 120	0	15

Lab Sample ID: MB 440-615347/3
Matrix: Water
Analysis Batch: 615347

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			07/02/20 15:07	1

Lab Sample ID: LCS 440-615347/4
Matrix: Water
Analysis Batch: 615347

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	190		mg/L		95	90 - 110		

Lab Sample ID: 440-267961-A-8 MS
Matrix: Water
Analysis Batch: 615347

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	18	J	200	209		mg/L		95	70 - 120		

Lab Sample ID: 440-267961-A-8 MSD
Matrix: Water
Analysis Batch: 615347

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	18	J	200	206		mg/L		94	70 - 120	1	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-614135/3
Matrix: Water
Analysis Batch: 614135

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			06/24/20 04:59	1
Bicarbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/24/20 04:59	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 440-614135/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			75.8	76.1		mg/L		100	80 - 120		

Lab Sample ID: 440-267832-1 DU — **Client Sample ID: LY-7**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614135

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity as CaCO3	2200			2160		mg/L				1	20
Bicarbonate Alkalinity as CaCO3	2200			2160		mg/L				1	20

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

Lab Sample ID: MB 440-614326/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			06/25/20 10:15	1

Lab Sample ID: LCS 440-614326/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1060		mg/L		106	90 - 110		

Lab Sample ID: 440-267832-8 DU — **Client Sample ID: MW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614326

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1800			1760		mg/L				0.9	5

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 440-615354/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615354

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			07/02/20 15:49	1

Lab Sample ID: 440-267923-H-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615354

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	19			19.4		mg/L				0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-614534/3
Matrix: Water
Analysis Batch: 614534

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			06/26/20 13:30	1

Lab Sample ID: LCS 440-614534/4
Matrix: Water
Analysis Batch: 614534

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	0.501	0.434		mg/L		87	80 - 120

Lab Sample ID: LCSD 440-614534/5
Matrix: Water
Analysis Batch: 614534

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
Total Sulfide	0.501	0.413		mg/L		82	80 - 120	5	20

Lab Sample ID: 440-267832-1 MS
Matrix: Water
Analysis Batch: 614534

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
Total Sulfide	ND		0.501	0.392		mg/L		78	70 - 130

Lab Sample ID: 440-267832-1 MSD
Matrix: Water
Analysis Batch: 614534

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
Total Sulfide	ND		0.501	0.428		mg/L		85	70 - 130	9	30

Method: SM 5310C - TOC

Lab Sample ID: MB 440-614259/8
Matrix: Water
Analysis Batch: 614259

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			06/24/20 06:43	1

Lab Sample ID: LCS 440-614259/7
Matrix: Water
Analysis Batch: 614259

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	4.86		mg/L		97	85 - 115

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MRL 440-614259/6
Matrix: Water
Analysis Batch: 614259

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	0.0753	J	mg/L		75	50 - 150		

Lab Sample ID: 440-267832-5 MS
Matrix: Water
Analysis Batch: 614259

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	1.7		5.00	7.12		mg/L		108	85 - 115		

Lab Sample ID: 440-267832-5 MSD
Matrix: Water
Analysis Batch: 614259

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	1.7		5.00	7.02		mg/L		106	85 - 115	1	20

QC Association Summary

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

Job ID: 440-267832-1

GC/MS VOA

Analysis Batch: 614081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	8260B	
440-267832-2	Extration Trench	Total/NA	Water	8260B	
440-267832-3	Combined Subdrains	Total/NA	Water	8260B	
440-267832-4	MW-9	Total/NA	Water	8260B	
440-267832-5	DW-2	Total/NA	Water	8260B	
440-267832-6	DW-3	Total/NA	Water	8260B	
MB 440-614081/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614081/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267785-E-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-267785-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 614240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1 - RA	LY-7	Total/NA	Water	8260B	
440-267832-2 - RA	Extration Trench	Total/NA	Water	8260B	
440-267832-3 - RA	Combined Subdrains	Total/NA	Water	8260B	
440-267832-4 - RA	MW-9	Total/NA	Water	8260B	
MB 440-614240/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614240/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267797-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-267797-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 614630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-7	PZ-4	Total/NA	Water	8260B	
440-267832-8	MW-1	Total/NA	Water	8260B	
440-267832-9	DW-5	Total/NA	Water	8260B	
440-267832-10	MW-5	Total/NA	Water	8260B	
440-267832-11	MW13R	Total/NA	Water	8260B	
MB 440-614630/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614630/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267832-7 MS	PZ-4	Total/NA	Water	8260B	
440-267832-7 MSD	PZ-4	Total/NA	Water	8260B	

Analysis Batch: 614640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-11	MW13R	Total/NA	Water	8260B	
440-267832-12	Field Blank	Total/NA	Water	8260B	
MB 440-614640/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614640/1002	Lab Control Sample	Total/NA	Water	8260B	
720-98995-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
720-98995-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 614672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-8 - RA	MW-1	Total/NA	Water	8260B	
440-267832-9 - RA	DW-5	Total/NA	Water	8260B	
440-267832-10 - RA	MW-5	Total/NA	Water	8260B	
440-267832-13	Trip Blank	Total/NA	Water	8260B	
MB 440-614672/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614672/1002	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 614672 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-62119-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
320-62119-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 614869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-7 - RA	PZ-4	Total/NA	Water	8260B	
MB 440-614869/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614869/1002	Lab Control Sample	Total/NA	Water	8260B	
720-99012-B-4 MS	Matrix Spike	Total/NA	Water	8260B	
720-99012-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 614108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	3520C	
440-267832-2	Extration Trench	Total/NA	Water	3520C	
MB 440-614108/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-614108/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-614108/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 614110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-3	Combined Subdrains	Total/NA	Water	3520C	
440-267832-4	MW-9	Total/NA	Water	3520C	
440-267832-5	DW-2	Total/NA	Water	3520C	
440-267832-6	DW-3	Total/NA	Water	3520C	
440-267832-7	PZ-4	Total/NA	Water	3520C	
440-267832-8	MW-1	Total/NA	Water	3520C	
440-267832-9	DW-5	Total/NA	Water	3520C	
440-267832-10	MW-5	Total/NA	Water	3520C	
440-267832-11	MW13R	Total/NA	Water	3520C	
MB 440-614110/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-614110/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-614110/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 614335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-614108/1-A	Method Blank	Total/NA	Water	8270C	614108
LCS 440-614108/2-A	Lab Control Sample	Total/NA	Water	8270C	614108

Analysis Batch: 614487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	8270C	614108
440-267832-2	Extration Trench	Total/NA	Water	8270C	614108
440-267832-3	Combined Subdrains	Total/NA	Water	8270C	614110
440-267832-4	MW-9	Total/NA	Water	8270C	614110
440-267832-5	DW-2	Total/NA	Water	8270C	614110
440-267832-6	DW-3	Total/NA	Water	8270C	614110
440-267832-7	PZ-4	Total/NA	Water	8270C	614110
440-267832-8	MW-1	Total/NA	Water	8270C	614110

GC/MS Semi VOA (Continued)

Analysis Batch: 614487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-9	DW-5	Total/NA	Water	8270C	614110
440-267832-10	MW-5	Total/NA	Water	8270C	614110
440-267832-11	MW13R	Total/NA	Water	8270C	614110
MB 440-614110/1-A	Method Blank	Total/NA	Water	8270C	614110
LCS 440-614110/2-A	Lab Control Sample	Total/NA	Water	8270C	614110
LCSD 440-614108/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	614108
LCSD 440-614110/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	614110

HPLC/IC

Analysis Batch: 613949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-5	DW-2	Total/NA	Water	300.0	
440-267832-6	DW-3	Total/NA	Water	300.0	
440-267832-7	PZ-4	Total/NA	Water	300.0	
440-267832-8	MW-1	Total/NA	Water	300.0	
440-267832-9	DW-5	Total/NA	Water	300.0	
440-267832-10	MW-5	Total/NA	Water	300.0	
440-267832-11	MW13R	Total/NA	Water	300.0	
MB 440-613949/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613949/5	Lab Control Sample	Total/NA	Water	300.0	
440-267832-8 MS	MW-1	Total/NA	Water	300.0	
440-267832-8 MSD	MW-1	Total/NA	Water	300.0	
440-267832-11 MS	MW13R	Total/NA	Water	300.0	
440-267832-11 MSD	MW13R	Total/NA	Water	300.0	

Analysis Batch: 613950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-5	DW-2	Total/NA	Water	300.0	
440-267832-5	DW-2	Total/NA	Water	300.0	
440-267832-6	DW-3	Total/NA	Water	300.0	
440-267832-6	DW-3	Total/NA	Water	300.0	
440-267832-7	PZ-4	Total/NA	Water	300.0	
440-267832-7	PZ-4	Total/NA	Water	300.0	
440-267832-8	MW-1	Total/NA	Water	300.0	
440-267832-8 - DL	MW-1	Total/NA	Water	300.0	
440-267832-9	DW-5	Total/NA	Water	300.0	
440-267832-10	MW-5	Total/NA	Water	300.0	
440-267832-10	MW-5	Total/NA	Water	300.0	
440-267832-11	MW13R	Total/NA	Water	300.0	
MB 440-613950/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613950/5	Lab Control Sample	Total/NA	Water	300.0	
440-267832-8 MS	MW-1	Total/NA	Water	300.0	
440-267832-8 MSD	MW-1	Total/NA	Water	300.0	
440-267832-11 MS	MW13R	Total/NA	Water	300.0	
440-267832-11 MSD	MW13R	Total/NA	Water	300.0	

Analysis Batch: 613955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	300.0	
440-267832-2	Extration Trench	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 613955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-3	Combined Subdrains	Total/NA	Water	300.0	
440-267832-4	MW-9	Total/NA	Water	300.0	
MB 440-613955/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613955/5	Lab Control Sample	Total/NA	Water	300.0	
440-267832-4 MS	MW-9	Total/NA	Water	300.0	
440-267832-4 MSD	MW-9	Total/NA	Water	300.0	

Analysis Batch: 613956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	300.0	
440-267832-1	LY-7	Total/NA	Water	300.0	
440-267832-2	Extration Trench	Total/NA	Water	300.0	
440-267832-2	Extration Trench	Total/NA	Water	300.0	
440-267832-2	Extration Trench	Total/NA	Water	300.0	
440-267832-3	Combined Subdrains	Total/NA	Water	300.0	
440-267832-3	Combined Subdrains	Total/NA	Water	300.0	
440-267832-4	MW-9	Total/NA	Water	300.0	
440-267832-4 - DL	MW-9	Total/NA	Water	300.0	
MB 440-613956/6	Method Blank	Total/NA	Water	300.0	
LCS 440-613956/5	Lab Control Sample	Total/NA	Water	300.0	
440-267832-4 MS	MW-9	Total/NA	Water	300.0	
440-267832-4 MSD	MW-9	Total/NA	Water	300.0	

Analysis Batch: 614170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-9	DW-5	Total/NA	Water	300.0	
440-267832-11	MW13R	Total/NA	Water	300.0	
MB 440-614170/6	Method Blank	Total/NA	Water	300.0	
LCS 440-614170/5	Lab Control Sample	Total/NA	Water	300.0	
440-267963-J-6 MS	Matrix Spike	Total/NA	Water	300.0	
440-267963-J-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 614117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-2	Extration Trench	Total Recoverable	Water	3005A	
440-267832-3	Combined Subdrains	Total Recoverable	Water	3005A	
440-267832-4	MW-9	Total Recoverable	Water	3005A	
440-267832-5	DW-2	Total Recoverable	Water	3005A	
440-267832-6	DW-3	Total Recoverable	Water	3005A	
440-267832-7	PZ-4	Total Recoverable	Water	3005A	
440-267832-8	MW-1	Total Recoverable	Water	3005A	
440-267832-10	MW-5	Total Recoverable	Water	3005A	
440-267832-11	MW13R	Total Recoverable	Water	3005A	
MB 440-614117/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-614117/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267785-I-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-267785-I-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 440-267832-1

Metals

Prep Batch: 614362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total Recoverable	Water	3005A	
440-267832-9	DW-5	Total Recoverable	Water	3005A	
MB 440-614362/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-614362/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267923-K-1-B MS ^2	Matrix Spike	Total Recoverable	Water	3005A	
440-267923-K-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 614593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-2	Extration Trench	Total Recoverable	Water	6010B	614117
440-267832-3	Combined Subdrains	Total Recoverable	Water	6010B	614117
440-267832-4	MW-9	Total Recoverable	Water	6010B	614117
440-267832-5	DW-2	Total Recoverable	Water	6010B	614117
440-267832-6	DW-3	Total Recoverable	Water	6010B	614117
440-267832-7	PZ-4	Total Recoverable	Water	6010B	614117
440-267832-8	MW-1	Total Recoverable	Water	6010B	614117
440-267832-10	MW-5	Total Recoverable	Water	6010B	614117
440-267832-11	MW13R	Total Recoverable	Water	6010B	614117
MB 440-614117/1-A	Method Blank	Total Recoverable	Water	6010B	614117
LCS 440-614117/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614117
440-267785-I-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	614117
440-267785-I-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	614117

Analysis Batch: 615209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total Recoverable	Water	6010B	614362
440-267832-9	DW-5	Total Recoverable	Water	6010B	614362
MB 440-614362/1-A	Method Blank	Total Recoverable	Water	6010B	614362
LCS 440-614362/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614362
440-267923-K-1-B MS ^2	Matrix Spike	Total Recoverable	Water	6010B	614362
440-267923-K-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	6010B	614362

General Chemistry

Analysis Batch: 614135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	SM 2320B	
440-267832-2	Extration Trench	Total/NA	Water	SM 2320B	
440-267832-3	Combined Subdrains	Total/NA	Water	SM 2320B	
440-267832-4	MW-9	Total/NA	Water	SM 2320B	
440-267832-5	DW-2	Total/NA	Water	SM 2320B	
440-267832-6	DW-3	Total/NA	Water	SM 2320B	
440-267832-7	PZ-4	Total/NA	Water	SM 2320B	
440-267832-8	MW-1	Total/NA	Water	SM 2320B	
440-267832-9	DW-5	Total/NA	Water	SM 2320B	
440-267832-10	MW-5	Total/NA	Water	SM 2320B	
440-267832-11	MW13R	Total/NA	Water	SM 2320B	
MB 440-614135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-614135/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-267832-1 DU	LY-7	Total/NA	Water	SM 2320B	

QC Association Summary

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

Job ID: 440-267832-1

General Chemistry

Analysis Batch: 614259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	SM 5310C	
440-267832-2	Extration Trench	Total/NA	Water	SM 5310C	
440-267832-3	Combined Subdrains	Total/NA	Water	SM 5310C	
440-267832-4	MW-9	Total/NA	Water	SM 5310C	
440-267832-5	DW-2	Total/NA	Water	SM 5310C	
440-267832-6	DW-3	Total/NA	Water	SM 5310C	
440-267832-7	PZ-4	Total/NA	Water	SM 5310C	
440-267832-8	MW-1	Total/NA	Water	SM 5310C	
440-267832-9	DW-5	Total/NA	Water	SM 5310C	
440-267832-10	MW-5	Total/NA	Water	SM 5310C	
440-267832-11	MW13R	Total/NA	Water	SM 5310C	
MB 440-614259/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-614259/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-614259/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-267832-5 MS	DW-2	Total/NA	Water	SM 5310C	
440-267832-5 MSD	DW-2	Total/NA	Water	SM 5310C	

Analysis Batch: 614326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	SM 2540C	
440-267832-2	Extration Trench	Total/NA	Water	SM 2540C	
440-267832-3	Combined Subdrains	Total/NA	Water	SM 2540C	
440-267832-4	MW-9	Total/NA	Water	SM 2540C	
440-267832-5	DW-2	Total/NA	Water	SM 2540C	
440-267832-6	DW-3	Total/NA	Water	SM 2540C	
440-267832-7	PZ-4	Total/NA	Water	SM 2540C	
440-267832-8	MW-1	Total/NA	Water	SM 2540C	
440-267832-9	DW-5	Total/NA	Water	SM 2540C	
440-267832-10	MW-5	Total/NA	Water	SM 2540C	
440-267832-11	MW13R	Total/NA	Water	SM 2540C	
MB 440-614326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-614326/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-267832-8 DU	MW-1	Total/NA	Water	SM 2540C	

Analysis Batch: 614534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	SM 4500 S2 D	
440-267832-2	Extration Trench	Total/NA	Water	SM 4500 S2 D	
440-267832-3	Combined Subdrains	Total/NA	Water	SM 4500 S2 D	
440-267832-4	MW-9	Total/NA	Water	SM 4500 S2 D	
440-267832-5	DW-2	Total/NA	Water	SM 4500 S2 D	
440-267832-6	DW-3	Total/NA	Water	SM 4500 S2 D	
440-267832-7	PZ-4	Total/NA	Water	SM 4500 S2 D	
440-267832-8	MW-1	Total/NA	Water	SM 4500 S2 D	
440-267832-9	DW-5	Total/NA	Water	SM 4500 S2 D	
440-267832-10	MW-5	Total/NA	Water	SM 4500 S2 D	
440-267832-11	MW13R	Total/NA	Water	SM 4500 S2 D	
MB 440-614534/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-614534/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 440-614534/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
440-267832-1 MS	LY-7	Total/NA	Water	SM 4500 S2 D	

General Chemistry (Continued)

Analysis Batch: 614534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1 MSD	LY-7	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 614820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	410.4	
440-267832-2	Extration Trench	Total/NA	Water	410.4	
440-267832-3	Combined Subdrains	Total/NA	Water	410.4	
440-267832-4	MW-9	Total/NA	Water	410.4	
440-267832-5	DW-2	Total/NA	Water	410.4	
440-267832-6	DW-3	Total/NA	Water	410.4	
440-267832-7	PZ-4	Total/NA	Water	410.4	
440-267832-8	MW-1	Total/NA	Water	410.4	
MB 440-614820/3	Method Blank	Total/NA	Water	410.4	
LCS 440-614820/4	Lab Control Sample	Total/NA	Water	410.4	
440-267861-I-12 MS	Matrix Spike	Total/NA	Water	410.4	
440-267861-I-12 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 614913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-2	Extration Trench	Total/NA	Water	350.1	
440-267832-3	Combined Subdrains	Total/NA	Water	350.1	
440-267832-4	MW-9	Total/NA	Water	350.1	
440-267832-5	DW-2	Total/NA	Water	350.1	
440-267832-6	DW-3	Total/NA	Water	350.1	
440-267832-7	PZ-4	Total/NA	Water	350.1	
440-267832-8	MW-1	Total/NA	Water	350.1	
440-267832-9	DW-5	Total/NA	Water	350.1	
440-267832-10	MW-5	Total/NA	Water	350.1	
440-267832-11	MW13R	Total/NA	Water	350.1	
MB 440-614913/10	Method Blank	Total/NA	Water	350.1	
LCS 440-614913/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-614913/9	Lab Control Sample	Total/NA	Water	350.1	
440-267785-J-5 MS	Matrix Spike	Total/NA	Water	350.1	
440-267785-J-5 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 614986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	350.1	
MB 440-614986/10	Method Blank	Total/NA	Water	350.1	
LCS 440-614986/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-614986/9	Lab Control Sample	Total/NA	Water	350.1	
440-268130-C-2 MS	Matrix Spike	Total/NA	Water	350.1	
440-268130-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 615347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-9	DW-5	Total/NA	Water	410.4	
440-267832-10	MW-5	Total/NA	Water	410.4	
440-267832-11	MW13R	Total/NA	Water	410.4	
MB 440-615347/3	Method Blank	Total/NA	Water	410.4	
LCS 440-615347/4	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 615347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267961-A-8 MS	Matrix Spike	Total/NA	Water	410.4	
440-267961-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	410.4	

Analysis Batch: 615354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267832-1	LY-7	Total/NA	Water	SM 4500 CO2 C	
440-267832-2	Extration Trench	Total/NA	Water	SM 4500 CO2 C	
440-267832-3	Combined Subdrains	Total/NA	Water	SM 4500 CO2 C	
440-267832-4	MW-9	Total/NA	Water	SM 4500 CO2 C	
440-267832-5	DW-2	Total/NA	Water	SM 4500 CO2 C	
440-267832-6	DW-3	Total/NA	Water	SM 4500 CO2 C	
440-267832-7	PZ-4	Total/NA	Water	SM 4500 CO2 C	
440-267832-8	MW-1	Total/NA	Water	SM 4500 CO2 C	
440-267832-9	DW-5	Total/NA	Water	SM 4500 CO2 C	
440-267832-10	MW-5	Total/NA	Water	SM 4500 CO2 C	
440-267832-11	MW13R	Total/NA	Water	SM 4500 CO2 C	
MB 440-615354/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	
440-267923-H-1 DU	Duplicate	Total/NA	Water	SM 4500 CO2 C	

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.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS 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.

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

Metals

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

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
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
Project/Site: Republic Sunshine Canyon

Job ID: 440-267832-1

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	10-14-20
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	07-31-20
Nevada	State	CA015312020-9	07-31-20
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record 316171

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

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

Client Contact	Project Manager: Kyle Welchang	Site Contact: J. Mills	Date: 6-23-20	COC No:
Company Name: GLA / Republic	Tel/Fax: 858-451-1136	Lab Contact: Rossina B	Carrier: T/A	1 of 2 COCs
Address: 11415 W. Bernardo Ct	Analysis Turnaround Time			Sampler: BS, NR, 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. Landfill	☐ 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)	EPA 8260B-VOCs	Total Alkalinity and B, Carb.	Ammonia as N	COD (410.4)	Chloride, Bromide	NO3-N, Sulfate	Total B, Ca, Fe, Mg, Mn, K, Na (6010B)	TDS (EPA 160.1)	TOC (415.1)	Fluoride (3410.2)	Sulfide (376.2)	SM-4500-CO2C-	Carbon Dioxide	8270-1,4-Dioxane	Sample Specific Notes:
LY-7	6/23/20	0800	G	WW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Extraction Trench	↓	0925	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Combined Subdrains	↓	1050	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-9	↓	1310	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DW-2	↓	0955	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DW-3	↓	1120	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PZ-4	↓	0835	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-1	↓	1144	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
DW-5	↓	1259	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-5	↓	1030	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-13R	↓	0848	↓	↓	13			X	X	X	X	X	X	X	X	X	X	X	X	X	X	

440-267832 Chain of Custody

CC 6/23/20

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: 8260 Includes all 40 CFR Part 258 Appdx. 1 VOCs Dichlorodifluoromethane and MTBE

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]	GLA	6-23-20 1400	[signature]	EC-IRV	6-23-20 14:00
Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time
Relinquished by [signature]	Company: EC-IRV	Date/Time: 6-23-20 18:15	Received in Laboratory by: [signature]	Company EC-IRV	Date/Time: 6/23/20 1815

05/05 34/34 53/53 25/25

Chain of Custody Record 389655

eurofins | Environment Testing TestAmerica

Address: _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchans	Site Contact: Josh Mills	Date: 6-23-2020	COC No
Company Name: GLA / REPUBLIC	Tel/Email: 858-451-1136	Lab Contact: Rossina	Carrier: T/A	2 of 2 COCs
Address: 11415 W. BERNARDO CT	Analysis Turnaround Time			Sampler: BS, NR, CV
City/State/Zip: SAN DIEGO 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 Canyon Landfill	☐ 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)	EPA 8260 B - VOCs	Sample Specific Notes:
Field Blank	6/23/20	—	G	LAB H_2O	4			X	
Trip Blank	6/23/20	✓	G	LAB H_2O	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: 8260 Includes all 40 CFR Part 258 Appdx I VOCs, Dichlorodifluoromethane and MTBE

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]	GLA	6-23-20 1400	[signature]	EC-IRV	6-23-20 14:00
Relinquished by	Company:	Date/Time	Received by	Company:	Date/Time
Relinquished by: [signature]	Company: EC-IRV	Date/Time 6-23-20 18:15	Received in Laboratory by: [signature]	Company EC-IRV	Date/Time: 6/23/20 1815

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-267832-1

Login Number: 267832
List Number: 1
Creator: Skinner, Alma D

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	

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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: 440-267923-1
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:
7/7/2020 10:45:45 AM
Lena Davidkova, Project Manager II
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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: 440-267923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
440-267923-1	DW-4	Water	06/24/20 10:05	06/24/20 17:30	
440-267923-2	MW-2A	Water	06/24/20 08:21	06/24/20 17:30	
440-267923-3	MW-2B	Water	06/24/20 09:17	06/24/20 17:30	
440-267923-4	DW-1	Water	06/24/20 09:00	06/24/20 17:30	
440-267923-5	Field Balnk	Water	06/24/20 00:01	06/24/20 17:30	
440-267923-6	Trip Blank	Water	06/24/20 00:01	06/24/20 17:30	

Job ID: 440-267923-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative
440-267923-1

Comments
No additional comments.

Receipt
The samples were received on 6/24/2020 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3º C and 3.5º C.

GC/MS VOA
Method 8260B: The following samples were received unpreserved and presented a pH of 9 was outside the recommended pH between 5-8. Analysis was performed within 7 days per EPA recommendation: DW-1 (440-267923-4) .

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-614630 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The method blank for analytical batch 440-614630 contained Acetone above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260B: The continuing calibration verification (CCV) associated with batch 440-614630 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: DW-4 (440-267923-1), MW-2A (440-267923-2), MW-2B (440-267923-3), DW-1 (440-267923-4), Field Balnk (440-267923-5) and Trip Blank (440-267923-6).

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: DW-4 (440-267923-1), MW-2A (440-267923-2) and MW-2B (440-267923-3).

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH of 9 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: DW-1 (440-267923-4).

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 5 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: Field Balnk (440-267923-5) and Trip Blank (440-267923-6).

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: DW-4 (440-267923-1), MW-2A (440-267923-2) and MW-2B (440-267923-3).

Method 8260B: The following samples were collected in a properly preserved vial; however, the pH of 5 was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: Field Balnk (440-267923-5) and Trip Blank (440-267923-6).

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH of 8 was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: DW-1 (440-267923-4).

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

GC/MS Semi VOA
Method 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 440-614306 and analytical batch 440-614487 recovered outside control limits for the following analytes: 1,4-Dioxane. Laboratory control

Job ID: 440-267923-1 (Continued)

Laboratory: Eurofins Calscience Irvine (Continued)

sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analytes.

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 samples were diluted due to the nature of the sample matrix: DW-4 (440-267923-1), MW-2A (440-267923-2), MW-2B (440-267923-3) and DW-1 (440-267923-4). 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.

Metals
Method 6010B: The continuing calibration blank (CCB) for 440-615209 contained Sodium above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL).(CCB 440-615209/24), (CCB 440-615209/48) and (CCB 440-615209/60)

Method 6010B: The method blank for preparation batch 440-614362 and analytical batch 440-615209 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010B: The method blank for preparation batch 440-614362 and analytical batch 440-615209 contained Sodium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry
Method SM 4500 S2 D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-615189 were outside control limits for Total Sulfide. 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.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 8270C preparation batch 440-614306. LCS was performed in duplicate to provide precision of data.

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 Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-4

Date Collected: 06/24/20 10:05
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-1

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	0.40	ug/L			06/27/20 18:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Acrolein	ND		50	2.5	ug/L			06/27/20 18:43	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 18:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 18:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 18:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 18:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 18:43	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 18:43	1
Acetone	ND		20	10	ug/L			06/27/20 18:43	1
Acetonitrile	ND		20	10	ug/L			06/27/20 18:43	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 18:43	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 18:43	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 18:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 18:43	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 18:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 18:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 18:43	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 18:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 18:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 18:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 18:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 18:43	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 18:43	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-4

Date Collected: 06/24/20 10:05
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-1

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	0.40	ug/L			06/27/20 18:43	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Propionitrile	ND		20	10	ug/L			06/27/20 18:43	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 18:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 18:43	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 18:43	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 18:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 18:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 18:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 18:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 18:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 18:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/27/20 18:43*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 18:43*	*1*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*06/27/20 18:43*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 18:43*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 18:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 12:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 12:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*6.50*			*06/29/20 12:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/29/20 12:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/29/20 12:40*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/29/20 12:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	*1	0.99	0.25	ug/L		06/25/20 08:13	06/26/20 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*60*		*30 - 120*	*06/25/20 08:13*	*06/26/20 17:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.50**	**J**	1.0	0.50	mg/L			06/24/20 22:24	2

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-4

Lab Sample ID: 440-267923-1
Matrix: Water

Date Collected: 06/24/20 10:05
Date Received: 06/24/20 17:30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.22	0.11	mg/L			06/24/20 22:24	2
Chloride	**13**		1.0	0.50	mg/L			06/24/20 22:24	2
Fluoride	ND		1.0	0.50	mg/L			06/24/20 22:24	2
Sulfate	**1800**		50	25	mg/L			06/24/20 22:40	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.64**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 16:18	2
Calcium	**190**	**B**	0.20	0.10	mg/L		06/25/20 12:57	07/01/20 16:18	2
Iron	**2.0**		0.20	0.10	mg/L		06/25/20 12:57	07/01/20 16:18	2
Magnesium	**130**		0.040	0.020	mg/L		06/25/20 12:57	07/01/20 16:18	2
Manganese	**0.12**		0.040	0.030	mg/L		06/25/20 12:57	07/01/20 16:18	2
Potassium	**4.3**		1.0	0.50	mg/L		06/25/20 12:57	07/01/20 16:18	2
Sodium	**490**	**B**	1.0	0.52	mg/L		06/25/20 12:57	07/01/20 16:18	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**4.1**		0.20	0.10	mg/L			06/30/20 11:58	1
Chemical Oxygen Demand	ND		20	10	mg/L			07/02/20 15:09	1
Total Dissolved Solids	**3000**		20	10	mg/L			06/30/20 10:10	1
Total Sulfide	ND	F1	0.050	0.027	mg/L			07/01/20 15:05	1
Total Organic Carbon	**2.1**		0.10	0.050	mg/L			06/26/20 08:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**350**		4.0	4.0	mg/L			06/25/20 06:32	1
Carbon Dioxide, Free	**19**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW-2A

Lab Sample ID: 440-267923-2
Matrix: Water

Date Collected: 06/24/20 08:21
Date Received: 06/24/20 17:30

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	0.40	ug/L			06/27/20 19:10	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Acrolein	ND		50	2.5	ug/L			06/27/20 19:10	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 19:10	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 19:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 19:10	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: MW-2A

Date Collected: 06/24/20 08:21
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 19:10	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 19:10	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 19:10	1
Acetone	ND		20	10	ug/L			06/27/20 19:10	1
Acetonitrile	ND		20	10	ug/L			06/27/20 19:10	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 19:10	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 19:10	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 19:10	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 19:10	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 19:10	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 19:10	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 19:10	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 19:10	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 19:10	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 19:10	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 19:10	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 19:10	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 19:10	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Propionitrile	ND		20	10	ug/L			06/27/20 19:10	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 19:10	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 19:10	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 19:10	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 19:10	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 19:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 19:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 19:10*	*1*

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: MW-2A

Date Collected: 06/24/20 08:21
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-2

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 128		06/27/20 19:10	1
4-Bromofluorobenzene (Surr)	109		80 - 120		06/27/20 19:10	1
Toluene-d8 (Surr)	108		80 - 128		06/27/20 19:10	1
4-Bromofluorobenzene (Surr)	109		80 - 120		06/27/20 19:10	1
Dibromofluoromethane (Surr)	95		76 - 132		06/27/20 19:10	1
Dibromofluoromethane (Surr)	95		76 - 132		06/27/20 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 13:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 13:08	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	10	T J	ug/L		6.51			06/29/20 13:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/29/20 13:08	1
4-Bromofluorobenzene (Surr)	101		80 - 120		06/29/20 13:08	1
Dibromofluoromethane (Surr)	100		76 - 132		06/29/20 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.89**	**J *1**	1.0	0.26	ug/L		06/25/20 08:13	06/26/20 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	52		30 - 120	06/25/20 08:13	06/26/20 18:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	**0.53**	**J**	1.0	0.50	mg/L			06/24/20 22:56	2
Nitrate as N	ND		0.22	0.11	mg/L			06/24/20 22:56	2
Chloride	**30**		1.0	0.50	mg/L			06/24/20 22:56	2
Fluoride	**1.1**		1.0	0.50	mg/L			06/24/20 22:56	2
Sulfate	**1600**		50	25	mg/L			06/24/20 23:12	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.64**		0.050	0.025	mg/L		06/25/20 12:57	07/01/20 16:52	1
Calcium	**220**	**B**	0.10	0.050	mg/L		06/25/20 12:57	07/01/20 16:52	1
Iron	**10**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 16:52	1
Magnesium	**120**		0.020	0.010	mg/L		06/25/20 12:57	07/01/20 16:52	1
Manganese	**0.71**		0.020	0.015	mg/L		06/25/20 12:57	07/01/20 16:52	1
Potassium	**5.7**		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 16:52	1
Sodium	**410**	**B**	0.50	0.26	mg/L		06/25/20 12:57	07/01/20 16:52	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			06/30/20 12:08	1
Chemical Oxygen Demand	ND		20	10	mg/L			07/02/20 15:09	1
Total Dissolved Solids	**2700**		20	10	mg/L			06/30/20 10:10	1
Total Sulfide	ND		0.050	0.027	mg/L			07/01/20 15:06	1
Total Organic Carbon	**3.9**		0.10	0.050	mg/L			06/26/20 09:11	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: MW-2A

Lab Sample ID: 440-267923-2

Date Collected: 06/24/20 08:21
Date Received: 06/24/20 17:30

Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	360		4.0	4.0	mg/L			06/25/20 06:52	1
Carbon Dioxide, Free	70		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: MW-2B

Lab Sample ID: 440-267923-3

Date Collected: 06/24/20 09:17
Date Received: 06/24/20 17:30

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	0.40	ug/L			06/27/20 19:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Acrolein	ND		50	2.5	ug/L			06/27/20 19:38	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 19:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 19:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 19:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 19:38	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 19:38	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 19:38	1
Acetone	ND		20	10	ug/L			06/27/20 19:38	1
Acetonitrile	ND		20	10	ug/L			06/27/20 19:38	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 19:38	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 19:38	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 19:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 19:38	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 19:38	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 19:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 19:38	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: MW-2B

Date Collected: 06/24/20 09:17
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 19:38	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 19:38	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 19:38	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 19:38	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 19:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 19:38	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 19:38	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Propionitrile	ND		20	10	ug/L			06/27/20 19:38	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 19:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 19:38	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 19:38	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 19:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 19:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 19:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 19:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/27/20 19:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 19:38*	*1*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/27/20 19:38*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 19:38*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 19:38*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 19:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 13:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 13:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.6*	*T J*	*ug/L*		*2.59*			*06/29/20 13:36*	*1*
Unknown	*10*	*T J*	*ug/L*		*6.50*			*06/29/20 13:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/29/20 13:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/29/20 13:36*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*06/29/20 13:36*	*1*

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: MW-2B

Lab Sample ID: 440-267923-3
Date Collected: 06/24/20 09:17
Matrix: Water
Date Received: 06/24/20 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	*1	1.0	0.25	ug/L		06/25/20 08:13	06/26/20 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*51*		*30 - 120*	*06/25/20 08:13*	*06/26/20 18:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/24/20 23:29	2
Nitrate as N	ND		0.22	0.11	mg/L			06/24/20 23:29	2
Chloride	**14**		1.0	0.50	mg/L			06/24/20 23:29	2
Fluoride	**0.81**	**J**	1.0	0.50	mg/L			06/24/20 23:29	2
Sulfate	**1600**		50	25	mg/L			06/24/20 23:45	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.65**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 17:01	2
Calcium	**200**	**B**	0.20	0.10	mg/L		06/25/20 12:57	07/01/20 17:01	2
Iron	**2.9**		0.20	0.10	mg/L		06/25/20 12:57	07/01/20 17:01	2
Magnesium	**120**		0.040	0.020	mg/L		06/25/20 12:57	07/01/20 17:01	2
Manganese	**0.14**		0.040	0.030	mg/L		06/25/20 12:57	07/01/20 17:01	2
Potassium	**4.7**		1.0	0.50	mg/L		06/25/20 12:57	07/01/20 17:01	2
Sodium	**480**	**B**	1.0	0.52	mg/L		06/25/20 12:57	07/01/20 17:01	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**3.4**		0.20	0.10	mg/L			06/30/20 12:14	1
Chemical Oxygen Demand	ND		20	10	mg/L			07/02/20 15:09	1
Total Dissolved Solids	**2600**		20	10	mg/L			06/30/20 10:10	1
Total Sulfide	ND		0.050	0.027	mg/L			07/01/20 15:06	1
Total Organic Carbon	**2.1**		0.10	0.050	mg/L			06/26/20 09:25	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**340**		4.0	4.0	mg/L			06/25/20 07:01	1
Carbon Dioxide, Free	**28**		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: DW-1

Lab Sample ID: 440-267923-4
Date Collected: 06/24/20 09:00
Matrix: Water
Date Received: 06/24/20 17:30

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	0.40	ug/L			06/27/20 20:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Acrolein	ND		50	2.5	ug/L			06/27/20 20:06	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 20:06	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 20:06	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-1

Date Collected: 06/24/20 09:00
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-4

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		1.0	0.50	ug/L			06/27/20 20:06	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 20:06	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 20:06	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 20:06	1
Acetone	ND		20	10	ug/L			06/27/20 20:06	1
Acetonitrile	ND		20	10	ug/L			06/27/20 20:06	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 20:06	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 20:06	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 20:06	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 20:06	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 20:06	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 20:06	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 20:06	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 20:06	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 20:06	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 20:06	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 20:06	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 20:06	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 20:06	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Propionitrile	ND		20	10	ug/L			06/27/20 20:06	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 20:06	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 20:06	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:06	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 20:06	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-1

Date Collected: 06/24/20 09:00
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-4

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	0.25	ug/L			06/27/20 20:06	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 20:06	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 20:06	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 20:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 20:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*06/27/20 20:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/27/20 20:06*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*06/27/20 20:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*06/27/20 20:06*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 20:06*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 20:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 14:04	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 14:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*10*	*T J*	*ug/L*		*6.51*			*06/29/20 14:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/29/20 14:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*06/29/20 14:04*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*06/29/20 14:04*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	*1	1.0	0.25	ug/L		06/25/20 08:13	06/26/20 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*58*		*30 - 120*	*06/25/20 08:13*	*06/26/20 19:01*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		5.0	2.5	mg/L			06/25/20 00:01	10
Nitrate as N	ND		1.1	0.55	mg/L			06/25/20 00:01	10
Chloride	**14**		5.0	2.5	mg/L			06/25/20 00:01	10
Fluoride	**3.3**	**J**	5.0	2.5	mg/L			06/25/20 00:01	10

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1800**		100	50	mg/L			06/25/20 00:49	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.2**		0.25	0.13	mg/L		06/25/20 12:57	07/01/20 17:04	5
Calcium	**3.4**	**B**	0.50	0.25	mg/L		06/25/20 12:57	07/01/20 17:04	5

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: DW-1

Lab Sample ID: 440-267923-4
Matrix: Water
Date Collected: 06/24/20 09:00
Date Received: 06/24/20 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 17:04	5
Magnesium	**2.1**		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 17:04	5
Manganese	ND		0.10	0.075	mg/L		06/25/20 12:57	07/01/20 17:04	5
Potassium	**1.7**	**J**	2.5	1.3	mg/L		06/25/20 12:57	07/01/20 17:04	5
Sodium	**1100**	**B**	2.5	1.3	mg/L		06/25/20 12:57	07/01/20 17:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**1.9**		0.20	0.10	mg/L			06/30/20 12:28	1
Chemical Oxygen Demand	ND		20	10	mg/L			07/02/20 15:09	1
Total Dissolved Solids	**4300**		50	25	mg/L			06/30/20 10:10	1
Total Sulfide	**0.56**		0.050	0.027	mg/L			07/01/20 15:06	1
Total Organic Carbon	**3.5**		0.10	0.050	mg/L			06/26/20 09:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	**530**		4.0	4.0	mg/L			06/25/20 07:14	1
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			07/02/20 15:49	1

Client Sample ID: Field Balnk

Lab Sample ID: 440-267923-5
Matrix: Water
Date Collected: 06/24/20 00:01
Date Received: 06/24/20 17:30

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	0.40	ug/L			06/27/20 20:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Acrolein	ND		50	2.5	ug/L			06/27/20 20:33	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 20:33	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 20:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 20:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 20:33	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 20:33	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 20:33	1
Acetone	ND		20	10	ug/L			06/27/20 20:33	1
Acetonitrile	ND		20	10	ug/L			06/27/20 20:33	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 20:33	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 20:33	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: Field Balnk

Date Collected: 06/24/20 00:01
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 20:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 20:33	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 20:33	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 20:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 20:33	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 20:33	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 20:33	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 20:33	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 20:33	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 20:33	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 20:33	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Propionitrile	ND		20	10	ug/L			06/27/20 20:33	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 20:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 20:33	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 20:33	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 20:33	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 20:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 20:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 20:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*22*	*T J*	*ug/L*		*14.21*			*06/27/20 20:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 20:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 20:33*	*1*
Toluene-d8 (Surr)	*106*		*80 - 128*		*06/27/20 20:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 20:33*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 20:33*	*1*
Dibromofluoromethane (Surr)	*94*		*76 - 132*		*06/27/20 20:33*	*1*

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: Field Balnk

Lab Sample ID: 440-267923-5
Date Collected: 06/24/20 00:01
Matrix: Water
Date Received: 06/24/20 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 14:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 14:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/29/20 14:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*06/29/20 14:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 14:33*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*06/29/20 14:33*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 440-267923-6
Date Collected: 06/24/20 00:01
Matrix: Water
Date Received: 06/24/20 17:30

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	0.40	ug/L			06/27/20 21:01	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Acrolein	ND		50	2.5	ug/L			06/27/20 21:01	1
Acrylonitrile	ND		50	1.0	ug/L			06/27/20 21:01	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 21:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 21:01	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 21:01	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 21:01	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 21:01	1
Acetone	ND		20	10	ug/L			06/27/20 21:01	1
Acetonitrile	ND		20	10	ug/L			06/27/20 21:01	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 21:01	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 21:01	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 21:01	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 21:01	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 21:01	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: Trip Blank

Date Collected: 06/24/20 00:01
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 21:01	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 21:01	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 21:01	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 21:01	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 21:01	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 21:01	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 21:01	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 21:01	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 21:01	1
o-Xylene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Propionitrile	ND		20	10	ug/L			06/27/20 21:01	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 21:01	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 21:01	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 21:01	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 21:01	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 21:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 21:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 21:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 21:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*06/27/20 21:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/27/20 21:01*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*06/27/20 21:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*06/27/20 21:01*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 21:01*	*1*
Dibromofluoromethane (Surr)	*95*		*76 - 132*		*06/27/20 21:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 15:01	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 15:01	1

Client Sample Results

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

Job ID: 440-267923-1

Client Sample ID: Trip Blank

Lab Sample ID: 440-267923-6

Date Collected: 06/24/20 00:01
Date Received: 06/24/20 17:30

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/29/20 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 128		06/29/20 15:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120		06/29/20 15:01	1
Dibromofluoromethane (Surr)	98		76 - 132		06/29/20 15:01	1

Method Summary

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

Job ID: 440-267923-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
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 4500 CO2 C	Free Carbon Dioxide	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	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:

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: 440-267923-1

Client Sample ID: DW-4

Date Collected: 06/24/20 10:05
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-1

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	RA	1	10 mL	10 mL	614672	06/29/20 12:40	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 18:43	GMA	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	614306	06/25/20 08:13	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 17:58	HN	TAL IRV
Total/NA	Analysis	300.0		2			614167	06/24/20 22:24	NTN	TAL IRV
Total/NA	Analysis	300.0		2			614168	06/24/20 22:24	NTN	TAL IRV
Total/NA	Analysis	300.0		100			614168	06/24/20 22:40	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		2			615209	07/01/20 16:18	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614986	06/30/20 11:58	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:09	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614432	06/25/20 06:32	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614935	06/30/20 10:10	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	615189	07/01/20 15:05	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614519	06/26/20 08:54	YZ	TAL IRV

Client Sample ID: MW-2A

Date Collected: 06/24/20 08:21
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-2

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	RA	1	10 mL	10 mL	614672	06/29/20 13:08	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 19:10	GMA	TAL IRV
Total/NA	Prep	3520C			965 mL	1.0 mL	614306	06/25/20 08:13	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 18:19	HN	TAL IRV
Total/NA	Analysis	300.0		2			614167	06/24/20 22:56	NTN	TAL IRV
Total/NA	Analysis	300.0		2			614168	06/24/20 22:56	NTN	TAL IRV
Total/NA	Analysis	300.0		100			614168	06/24/20 23:12	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		1			615209	07/01/20 16:52	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614986	06/30/20 12:08	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:09	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614432	06/25/20 06:52	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614935	06/30/20 10:10	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	615189	07/01/20 15:06	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614519	06/26/20 09:11	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267923-1

Client Sample ID: MW-2B

Date Collected: 06/24/20 09:17
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-3

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	RA	1	10 mL	10 mL	614672	06/29/20 13:36	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 19:38	GMA	TAL IRV
Total/NA	Prep	3520C			990 mL	1.0 mL	614306	06/25/20 08:13	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 18:40	HN	TAL IRV
Total/NA	Analysis	300.0		2			614167	06/24/20 23:29	NTN	TAL IRV
Total/NA	Analysis	300.0		2			614168	06/24/20 23:29	NTN	TAL IRV
Total/NA	Analysis	300.0		100			614168	06/24/20 23:45	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		2			615209	07/01/20 17:01	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614986	06/30/20 12:14	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:09	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614432	06/25/20 07:01	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	614935	06/30/20 10:10	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	615189	07/01/20 15:06	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614519	06/26/20 09:25	YZ	TAL IRV

Client Sample ID: DW-1

Date Collected: 06/24/20 09:00
Date Received: 06/24/20 17:30

Lab Sample ID: 440-267923-4

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	RA	1	10 mL	10 mL	614672	06/29/20 14:04	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 20:06	GMA	TAL IRV
Total/NA	Prep	3520C			1005 mL	1.0 mL	614306	06/25/20 08:13	NAM	TAL IRV
Total/NA	Analysis	8270C		1			614487	06/26/20 19:01	HN	TAL IRV
Total/NA	Analysis	300.0		10			614167	06/25/20 00:01	NTN	TAL IRV
Total/NA	Analysis	300.0		10			614168	06/25/20 00:01	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	200			614168	06/25/20 00:49	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	614362	06/25/20 12:57	M1G	TAL IRV
Total Recoverable	Analysis	6010B		5			615209	07/01/20 17:04	P1R	TAL IRV
Total/NA	Analysis	350.1		1	0.8 mL	8.0 mL	614986	06/30/20 12:28	KMY	TAL IRV
Total/NA	Analysis	410.4		1	2 mL	2 mL	615347	07/02/20 15:09	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			614432	06/25/20 07:14	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	614935	06/30/20 10:10	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	615354	07/02/20 15:49	KYP	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	615189	07/01/20 15:06	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	614519	06/26/20 09:40	YZ	TAL IRV

Lab Chronicle

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

Job ID: 440-267923-1

Client Sample ID: Field Balnk

Lab Sample ID: 440-267923-5

Date Collected: 06/24/20 00:01
Matrix: Water
Date Received: 06/24/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614672	06/29/20 14:33	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 20:33	GMA	TAL IRV

Client Sample ID: Trip Blank

Lab Sample ID: 440-267923-6

Date Collected: 06/24/20 00:01
Matrix: Water
Date Received: 06/24/20 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	10 mL	10 mL	614672	06/29/20 15:01	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	614630	06/27/20 21:01	GMA	TAL IRV

Laboratory References:

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 440-614630/4
Matrix: Water
Analysis Batch: 614630

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	0.40	ug/L			06/27/20 15:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/27/20 15:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/27/20 15:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/27/20 15:02	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/27/20 15:02	1
2-Hexanone	ND		5.0	2.5	ug/L			06/27/20 15:02	1
Acetone	39.3		20	10	ug/L			06/27/20 15:02	1
Acetonitrile	ND		20	10	ug/L			06/27/20 15:02	1
Benzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Allyl chloride	ND		1.0	0.50	ug/L			06/27/20 15:02	1
Bromoform	ND		1.0	0.40	ug/L			06/27/20 15:02	1
Bromomethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/27/20 15:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Chloroethane	ND		1.0	0.40	ug/L			06/27/20 15:02	1
Chloroform	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Chloromethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Dibromomethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/27/20 15:02	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 15:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Iodomethane	ND		2.0	1.0	ug/L			06/27/20 15:02	1
Isobutyl alcohol	ND		25	13	ug/L			06/27/20 15:02	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/27/20 15:02	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/27/20 15:02	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/27/20 15:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/27/20 15:02	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Naphthalene	ND		1.0	0.40	ug/L			06/27/20 15:02	1

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

Lab Sample ID: MB 440-614630/4
Matrix: Water
Analysis Batch: 614630

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	0.25	ug/L			06/27/20 15:02	1
Propionitrile	ND		20	10	ug/L			06/27/20 15:02	1
Styrene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
t-Butanol	ND		10	5.0	ug/L			06/27/20 15:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/27/20 15:02	1
Toluene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/27/20 15:02	1
Trichloroethene	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/27/20 15:02	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/27/20 15:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/27/20 15:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/27/20 15:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/27/20 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/27/20 15:02	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/27/20 15:02*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 128*		*06/27/20 15:02*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*06/27/20 15:02*	*1*
Dibromofluoromethane (Surr)	*91*		*76 - 132*		*06/27/20 15:02*	*1*

Lab Sample ID: LCS 440-614630/1002
Matrix: Water
Analysis Batch: 614630

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	25.0	22.9		ug/L		92	63 - 130
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		88	60 - 141
1,1,1-Trichloroethane	25.0	19.0		ug/L		76	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.2		ug/L		113	63 - 130
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	26.0		ug/L		104	64 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	52 - 140
1,2-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
1,2-Dichloroethane	25.0	20.0		ug/L		80	57 - 138
1,2-Dichloropropane	25.0	26.7		ug/L		107	67 - 130
1,3-Dichlorobenzene	25.0	27.1		ug/L		109	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
2,2-Dichloropropane	25.0	24.7		ug/L		99	68 - 141

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

Lab Sample ID: LCS 440-614630/1002
Matrix: Water
Analysis Batch: 614630

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	147		ug/L		118	10 - 150
Acetone	125	166		ug/L		133	10 - 150
Benzene	25.0	28.0		ug/L		112	68 - 130
Bromoform	25.0	17.8		ug/L		71	60 - 148
Bromomethane	25.0	24.3		ug/L		97	64 - 139
Carbon disulfide	25.0	25.0		ug/L		100	52 - 136
Carbon tetrachloride	25.0	20.0		ug/L		80	60 - 150
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130
Bromochloromethane	25.0	24.1		ug/L		96	70 - 130
Chloroethane	25.0	29.2		ug/L		117	64 - 135
Chloroform	25.0	20.5		ug/L		82	70 - 130
Chloromethane	25.0	33.3		ug/L		133	47 - 140
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 133
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 133
Dibromochloromethane	25.0	20.8		ug/L		83	69 - 145
Dibromomethane	25.0	22.8		ug/L		91	70 - 130
Bromodichloromethane	25.0	21.6		ug/L		87	70 - 132
Dichlorodifluoromethane	25.0	28.3		ug/L		113	29 - 150
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
m,p-Xylene	25.0	27.1		ug/L		108	70 - 130
Methylene Chloride	25.0	23.3		ug/L		93	52 - 130
Methyl tert-butyl ether	25.0	22.7		ug/L		91	63 - 131
Naphthalene	25.0	25.1		ug/L		100	60 - 140
o-Xylene	25.0	26.9		ug/L		108	70 - 130
Styrene	25.0	25.6		ug/L		103	70 - 134
t-Butanol	250	260		ug/L		104	70 - 130
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130
Toluene	25.0	26.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 132
Trichloroethene	25.0	24.9		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	20.6		ug/L		82	60 - 150
Vinyl acetate	25.0	30.0		ug/L		120	48 - 140
Vinyl chloride	25.0	30.9		ug/L		124	59 - 133
1,2-Dibromoethane (EDB)	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	140		ug/L		112	44 - 150
4-Methyl-2-pentanone (MIBK)	125	144		ug/L		115	59 - 149

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*90*		*76 - 132*

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

Lab Sample ID: 440-267832-F-7 MS
Matrix: Water
Analysis Batch: 614630

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	10.1		ug/L		101	60 - 130
1,1,1,2-Tetrachloroethane	ND		10.0	9.28		ug/L		93	60 - 149
1,1,1-Trichloroethane	ND		10.0	7.70		ug/L		77	70 - 130
1,1,2,2-Tetrachloroethane	ND		10.0	12.7		ug/L		127	63 - 130
1,1,2-Trichloroethane	ND		10.0	12.0		ug/L		120	70 - 130
1,1-Dichloroethane	ND		10.0	10.1		ug/L		101	65 - 130
1,1-Dichloroethene	ND		10.0	8.98		ug/L		90	70 - 130
1,1-Dichloropropene	ND		10.0	10.5		ug/L		105	64 - 130
1,2,4-Trichlorobenzene	ND		10.0	9.85		ug/L		99	60 - 140
1,2-Dibromo-3-Chloropropane	ND		10.0	9.74		ug/L		97	48 - 140
1,2-Dichlorobenzene	ND		10.0	11.0		ug/L		110	70 - 130
1,2-Dichloroethane	ND		10.0	8.73		ug/L		87	56 - 146
1,2-Dichloropropane	ND		10.0	11.3		ug/L		113	69 - 130
1,3-Dichlorobenzene	ND		10.0	11.2		ug/L		112	70 - 130
1,3-Dichloropropane	ND		10.0	11.0		ug/L		110	70 - 130
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 130
2,2-Dichloropropane	ND		10.0	9.51		ug/L		95	69 - 138
2-Hexanone	ND		50.0	66.6		ug/L		133	10 - 150
Acetone	ND		50.0	62.7		ug/L		125	10 - 150
Benzene	ND		10.0	11.2		ug/L		112	66 - 130
Bromoform	ND		10.0	8.12		ug/L		81	59 - 150
Bromomethane	ND		10.0	9.60		ug/L		96	62 - 131
Carbon disulfide	ND		10.0	9.90		ug/L		99	49 - 140
Carbon tetrachloride	ND		10.0	7.78		ug/L		78	60 - 150
Chlorobenzene	ND		10.0	10.7		ug/L		107	70 - 130
Bromochloromethane	ND		10.0	9.56		ug/L		96	70 - 130
Chloroethane	ND		10.0	11.6		ug/L		116	68 - 130
Chloroform	ND		10.0	8.47		ug/L		85	70 - 130
Chloromethane	ND		10.0	13.0		ug/L		130	39 - 144
cis-1,2-Dichloroethene	ND		10.0	9.63		ug/L		96	70 - 130
cis-1,3-Dichloropropene	ND		10.0	10.8		ug/L		108	70 - 133
Dibromochloromethane	ND		10.0	8.97		ug/L		90	70 - 148
Dibromomethane	ND		10.0	10.0		ug/L		100	70 - 130
Bromodichloromethane	ND		10.0	9.11		ug/L		91	70 - 138
Dichlorodifluoromethane	ND		10.0	10.5		ug/L		105	25 - 142
Ethylbenzene	ND		10.0	10.2		ug/L		102	70 - 130
m,p-Xylene	ND		10.0	10.8		ug/L		108	70 - 133
Methylene Chloride	ND		10.0	9.92		ug/L		99	52 - 130
Methyl tert-butyl ether	ND		10.0	9.74		ug/L		97	70 - 130
Naphthalene	ND		10.0	10.8		ug/L		108	60 - 140
o-Xylene	ND		10.0	11.1		ug/L		111	70 - 133
Styrene	ND		10.0	10.5		ug/L		105	29 - 150
t-Butanol	ND		100	96.1		ug/L		96	70 - 130
Tetrachloroethene	ND		10.0	10.0		ug/L		100	70 - 137
Toluene	ND		10.0	10.9		ug/L		109	70 - 130
trans-1,2-Dichloroethene	ND		10.0	9.91		ug/L		99	70 - 130
trans-1,3-Dichloropropene	ND		10.0	10.4		ug/L		104	70 - 138
Trichloroethene	ND		10.0	9.96		ug/L		100	70 - 130

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

Lab Sample ID: 440-267832-F-7 MS
Matrix: Water
Analysis Batch: 614630

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
Trichlorofluoromethane	ND		10.0	7.97		ug/L		80	60 - 150
Vinyl acetate	ND		10.0	12.6		ug/L		126	23 - 150
Vinyl chloride	ND		10.0	12.0		ug/L		120	50 - 137
1,2-Dibromoethane (EDB)	ND		10.0	10.2		ug/L		102	70 - 131
2-Butanone (MEK)	ND		50.0	62.9		ug/L		126	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		50.0	65.8		ug/L		132	52 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*76 - 132*

Lab Sample ID: 440-267832-F-7 MSD
Matrix: Water
Analysis Batch: 614630

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	10.4		ug/L		104	60 - 130	3	30
1,1,1,2-Tetrachloroethane	ND		10.0	9.15		ug/L		92	60 - 149	1	20
1,1,1-Trichloroethane	ND		10.0	7.99		ug/L		80	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		10.0	12.9		ug/L		129	63 - 130	2	30
1,1,2-Trichloroethane	ND		10.0	11.7		ug/L		117	70 - 130	2	25
1,1-Dichloroethane	ND		10.0	10.6		ug/L		106	65 - 130	5	20
1,1-Dichloroethene	ND		10.0	9.71		ug/L		97	70 - 130	8	20
1,1-Dichloropropene	ND		10.0	10.6		ug/L		106	64 - 130	1	20
1,2,4-Trichlorobenzene	ND		10.0	10.0		ug/L		100	60 - 140	2	20
1,2-Dibromo-3-Chloropropane	ND		10.0	10.0		ug/L		100	48 - 140	3	30
1,2-Dichlorobenzene	ND		10.0	11.3		ug/L		113	70 - 130	3	20
1,2-Dichloroethane	ND		10.0	8.91		ug/L		89	56 - 146	2	20
1,2-Dichloropropane	ND		10.0	11.5		ug/L		115	69 - 130	2	20
1,3-Dichlorobenzene	ND		10.0	11.0		ug/L		110	70 - 130	2	20
1,3-Dichloropropane	ND		10.0	11.3		ug/L		113	70 - 130	2	25
1,4-Dichlorobenzene	ND		10.0	11.1		ug/L		111	70 - 130	1	20
2,2-Dichloropropane	ND		10.0	9.63		ug/L		96	69 - 138	1	25
2-Hexanone	ND		50.0	68.4		ug/L		137	10 - 150	3	35
Acetone	ND		50.0	63.7		ug/L		127	10 - 150	2	35
Benzene	ND		10.0	11.5		ug/L		115	66 - 130	3	20
Bromoform	ND		10.0	8.18		ug/L		82	59 - 150	1	25
Bromomethane	ND		10.0	10.1		ug/L		101	62 - 131	5	25
Carbon disulfide	ND		10.0	10.2		ug/L		102	49 - 140	3	20
Carbon tetrachloride	ND		10.0	8.13		ug/L		81	60 - 150	4	25
Chlorobenzene	ND		10.0	10.8		ug/L		108	70 - 130	1	20
Bromochloromethane	ND		10.0	9.88		ug/L		99	70 - 130	3	25
Chloroethane	ND		10.0	11.4		ug/L		114	68 - 130	2	25
Chloroform	ND		10.0	8.48		ug/L		85	70 - 130	0	20
Chloromethane	ND		10.0	13.2		ug/L		132	39 - 144	2	25
cis-1,2-Dichloroethene	ND		10.0	9.81		ug/L		98	70 - 130	2	20
cis-1,3-Dichloropropene	ND		10.0	10.8		ug/L		108	70 - 133	1	20

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

Lab Sample ID: 440-267832-F-7 MSD
Matrix: Water
Analysis Batch: 614630

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
Dibromochloromethane	ND		10.0	8.83		ug/L		88	70 - 148	2	25
Dibromomethane	ND		10.0	10.1		ug/L		101	70 - 130	1	25
Bromodichloromethane	ND		10.0	9.11		ug/L		91	70 - 138	0	20
Dichlorodifluoromethane	ND		10.0	10.2		ug/L		102	25 - 142	3	30
Ethylbenzene	ND		10.0	10.4		ug/L		104	70 - 130	3	20
m,p-Xylene	ND		10.0	10.7		ug/L		107	70 - 133	0	25
Methylene Chloride	ND		10.0	10.1		ug/L		101	52 - 130	2	20
Methyl tert-butyl ether	ND		10.0	10.0		ug/L		100	70 - 130	3	25
Naphthalene	ND		10.0	11.3		ug/L		113	60 - 140	5	30
o-Xylene	ND		10.0	11.0		ug/L		110	70 - 133	0	20
Styrene	ND		10.0	10.6		ug/L		106	29 - 150	0	35
t-Butanol	ND		100	95.1		ug/L		95	70 - 130	1	25
Tetrachloroethene	ND		10.0	10.0		ug/L		100	70 - 137	0	20
Toluene	ND		10.0	11.3		ug/L		113	70 - 130	3	20
trans-1,2-Dichloroethene	ND		10.0	10.2		ug/L		102	70 - 130	2	20
trans-1,3-Dichloropropene	ND		10.0	10.5		ug/L		105	70 - 138	1	25
Trichloroethene	ND		10.0	10.1		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	ND		10.0	8.12		ug/L		81	60 - 150	2	25
Vinyl acetate	ND		10.0	12.7		ug/L		127	23 - 150	0	30
Vinyl chloride	ND		10.0	12.6		ug/L		126	50 - 137	5	30
1,2-Dibromoethane (EDB)	ND		10.0	10.3		ug/L		103	70 - 131	1	25
2-Butanone (MEK)	ND		50.0	60.8		ug/L		122	48 - 140	3	40
4-Methyl-2-pentanone (MIBK)	ND		50.0	68.2		ug/L		136	52 - 150	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 128*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*76 - 132*

Lab Sample ID: MB 440-614672/4
Matrix: Water
Analysis Batch: 614672

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		4.0	2.0	ug/L			06/29/20 08:18	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/29/20 08:18	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.68*	*T J*	*ug/L*		*2.59*			*06/29/20 08:18*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 128*		*06/29/20 08:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*06/29/20 08:18*	*1*
Dibromofluoromethane (Surr)	*86*		*76 - 132*		*06/29/20 08:18*	*1*

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

Lab Sample ID: LCS 440-614672/1002
Matrix: Water
Analysis Batch: 614672

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	25.0	26.0		ug/L		104	48 - 140
2-Butanone (MEK)	125	116		ug/L		93	44 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 128*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*76 - 132*

Lab Sample ID: 320-62119-F-1 MS
Matrix: Water
Analysis Batch: 614672

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
Vinyl acetate	ND		10.0	11.5		ug/L		115	23 - 150
2-Butanone (MEK)	ND		50.0	55.1		ug/L		110	48 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

Lab Sample ID: 320-62119-G-1 MSD
Matrix: Water
Analysis Batch: 614672

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
Vinyl acetate	ND		10.0	11.5		ug/L		115	23 - 150	0	30
2-Butanone (MEK)	ND		50.0	56.6		ug/L		113	48 - 140	3	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*

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

Lab Sample ID: MB 440-614306/1-A
Matrix: Water
Analysis Batch: 614487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 614306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/25/20 08:13	06/26/20 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*58*		*30 - 120*	*06/25/20 08:13*	*06/26/20 13:01*	*1*

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

Lab Sample ID: LCS 440-614306/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614487 — **Prep Batch: 614306**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	0.916	J	ug/L		46	35 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*38*		*30 - 120*

Lab Sample ID: LCSD 440-614306/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614487 — **Prep Batch: 614306**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			2.00	1.32	*1	ug/L		66	35 - 120	36	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*60*		*30 - 120*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-614167/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/24/20 14:10	1

Lab Sample ID: LCS 440-614167/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614167

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			1.13	1.12		mg/L		99	90 - 110		

Lab Sample ID: 440-267923-4 MS — **Client Sample ID: DW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	ND		11.3	10.8		mg/L		95	80 - 120		

Lab Sample ID: 440-267923-4 MSD — **Client Sample ID: DW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		11.3	10.8		mg/L		96	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 440-614168/6
Matrix: Water
Analysis Batch: 614168

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/24/20 14:10	1
Chloride	ND		0.50	0.25	mg/L			06/24/20 14:10	1
Fluoride	ND		0.50	0.25	mg/L			06/24/20 14:10	1
Sulfate	ND		0.50	0.25	mg/L			06/24/20 14:10	1

Lab Sample ID: LCS 440-614168/5
Matrix: Water
Analysis Batch: 614168

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.87		mg/L		97	90 - 110
Chloride	5.00	4.70		mg/L		94	90 - 110
Fluoride	5.00	4.86		mg/L		97	90 - 110
Sulfate	5.00	4.94		mg/L		99	90 - 110

Lab Sample ID: 440-267923-4 MS
Matrix: Water
Analysis Batch: 614168

Client Sample ID: DW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	ND		50.0	47.3		mg/L		95	80 - 120
Chloride	14		50.0	62.1		mg/L		96	80 - 120
Fluoride	3.3	J	50.0	51.8		mg/L		97	80 - 120
Sulfate	2300	E	50.0	2550	E 4	mg/L		549	80 - 120

Lab Sample ID: 440-267923-4 MSD
Matrix: Water
Analysis Batch: 614168

Client Sample ID: DW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	ND		50.0	47.4		mg/L		95	80 - 120	0	20
Chloride	14		50.0	62.2		mg/L		96	80 - 120	0	20
Fluoride	3.3	J	50.0	51.8		mg/L		97	80 - 120	0	20
Sulfate	2300	E	50.0	2540	E 4	mg/L		530	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-614362/1-A
Matrix: Water
Analysis Batch: 615209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 614362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/25/20 12:57	07/01/20 15:46	1
Calcium	0.0648	J	0.10	0.050	mg/L		06/25/20 12:57	07/01/20 15:46	1
Iron	ND		0.10	0.050	mg/L		06/25/20 12:57	07/01/20 15:46	1
Magnesium	ND		0.020	0.010	mg/L		06/25/20 12:57	07/01/20 15:46	1
Manganese	ND		0.020	0.015	mg/L		06/25/20 12:57	07/01/20 15:46	1
Potassium	ND		0.50	0.25	mg/L		06/25/20 12:57	07/01/20 15:46	1
Sodium	1.47		0.50	0.26	mg/L		06/25/20 12:57	07/01/20 15:46	1

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

Lab Sample ID: LCS 440-614362/2-A
Matrix: Water
Analysis Batch: 615209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 614362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.04		mg/L		104	80 - 120
Calcium	5.00	5.27		mg/L		105	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120
Magnesium	5.00	5.13		mg/L		103	80 - 120
Manganese	1.00	1.03		mg/L		103	80 - 120
Potassium	10.0	10.3		mg/L		103	80 - 120
Sodium	10.0	11.5		mg/L		115	80 - 120

Lab Sample ID: 440-267923-1 MS
Matrix: Water
Analysis Batch: 615209

Client Sample ID: DW-4
Prep Type: Total Recoverable
Prep Batch: 614362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.64		1.00	1.58		mg/L		94	75 - 125
Calcium	190	B	5.00	183	4	mg/L		-136	75 - 125
Iron	2.0		1.00	2.78		mg/L		83	75 - 125
Magnesium	130		5.00	130	4	mg/L		-23	75 - 125
Manganese	0.12		1.00	1.06		mg/L		94	75 - 125
Potassium	4.3		10.0	13.7		mg/L		94	75 - 125
Sodium	490	B	10.0	470	4	mg/L		-214	75 - 125

Lab Sample ID: 440-267923-1 MSD
Matrix: Water
Analysis Batch: 615209

Client Sample ID: DW-4
Prep Type: Total Recoverable
Prep Batch: 614362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.64		1.00	1.70		mg/L		106	75 - 125	7	20
Calcium	190	B	5.00	196	4	mg/L		125	75 - 125	7	20
Iron	2.0		1.00	3.00		mg/L		105	75 - 125	7	20
Magnesium	130		5.00	144	4	mg/L		256	75 - 125	10	20
Manganese	0.12		1.00	1.13		mg/L		101	75 - 125	7	20
Potassium	4.3		10.0	14.6		mg/L		104	75 - 125	7	20
Sodium	490	B	10.0	504	4	mg/L		124	75 - 125	7	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 440-614986/10
Matrix: Water
Analysis Batch: 614986

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			06/30/20 10:59	1

Lab Sample ID: LCS 440-614986/11
Matrix: Water
Analysis Batch: 614986

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	5.17		mg/L		103	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MRL 440-614986/9
Matrix: Water
Analysis Batch: 614986

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	0.199	J	mg/L		100	50 - 150		

Lab Sample ID: 440-268130-C-2 MS
Matrix: Water
Analysis Batch: 614986

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)	4.9	F1	5.00	9.34		mg/L		90	90 - 110		

Lab Sample ID: 440-268130-C-2 MSD
Matrix: Water
Analysis Batch: 614986

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)	4.9	F1	5.00	9.15	F1	mg/L		86	90 - 110	2	15

Method: 410.4 - COD

Lab Sample ID: MB 440-615347/3
Matrix: Water
Analysis Batch: 615347

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			07/02/20 15:07	1

Lab Sample ID: LCS 440-615347/4
Matrix: Water
Analysis Batch: 615347

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	190		mg/L		95	90 - 110		

Lab Sample ID: 440-267923-4 MS
Matrix: Water
Analysis Batch: 615347

Client Sample ID: DW-1
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	205		mg/L		102	70 - 120		

Lab Sample ID: 440-267923-4 MSD
Matrix: Water
Analysis Batch: 615347

Client Sample ID: DW-1
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	200		mg/L		100	70 - 120	2	15

QC Sample Results

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

Job ID: 440-267923-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-614432/3
Matrix: Water
Analysis Batch: 614432

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			06/25/20 04:09	1

Lab Sample ID: LCS 440-614432/2
Matrix: Water
Analysis Batch: 614432

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	76.9		mg/L		101	80 - 120

Lab Sample ID: 440-267923-1 DU
Matrix: Water
Analysis Batch: 614432

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	350		344		mg/L		0.4	20

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

Lab Sample ID: MB 440-614935/1
Matrix: Water
Analysis Batch: 614935

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			06/30/20 10:10	1

Lab Sample ID: LCS 440-614935/2
Matrix: Water
Analysis Batch: 614935

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	934		mg/L		93	90 - 110

Lab Sample ID: 440-268066-F-1 DU
Matrix: Water
Analysis Batch: 614935

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	7400		7390		mg/L		0.3	5

Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 440-615354/1
Matrix: Water
Analysis Batch: 615354

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			07/02/20 15:49	1

Method: SM 4500 CO2 C - Free Carbon Dioxide (Continued)

Lab Sample ID: 440-267923-1 DU — **Client Sample ID: DW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615354

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbon Dioxide, Free	19			19.4		mg/L				0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-615189/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615189

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			07/01/20 15:05	1

Lab Sample ID: LCS 440-615189/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615189

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Sulfide			0.501	0.444		mg/L		89	80 - 120		

Lab Sample ID: LCSD 440-615189/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615189

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide			0.501	0.447		mg/L		89	80 - 120	1	20

Lab Sample ID: 440-267923-1 MS — **Client Sample ID: DW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Sulfide	ND	F1	0.501	0.326	F1	mg/L		65	70 - 130		

Lab Sample ID: 440-267923-1 MSD — **Client Sample ID: DW-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 615189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	ND	F1	0.501	0.287	F1	mg/L		57	70 - 130	13	30

Method: SM 5310C - TOC

Lab Sample ID: MB 440-614519/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 614519

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			06/26/20 08:40	1

Method: SM 5310C - TOC (Continued)

Lab Sample ID: LCS 440-614519/7
Matrix: Water
Analysis Batch: 614519

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	5.08		mg/L		102	85 - 115		

Lab Sample ID: MRL 440-614519/6
Matrix: Water
Analysis Batch: 614519

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	0.133		mg/L		133	50 - 150		

Lab Sample ID: 440-267923-1 MS
Matrix: Water
Analysis Batch: 614519

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		
Total Organic Carbon	2.1		5.00	7.03		mg/L		99	85 - 115		

Lab Sample ID: 440-267923-1 MSD
Matrix: Water
Analysis Batch: 614519

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
Total Organic Carbon	2.1		5.00	7.33		mg/L		104	85 - 115	4	20

QC Association Summary

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

Job ID: 440-267923-1

GC/MS VOA

Analysis Batch: 614630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	8260B	
440-267923-2	MW-2A	Total/NA	Water	8260B	
440-267923-3	MW-2B	Total/NA	Water	8260B	
440-267923-4	DW-1	Total/NA	Water	8260B	
440-267923-5	Field Balnk	Total/NA	Water	8260B	
440-267923-6	Trip Blank	Total/NA	Water	8260B	
MB 440-614630/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614630/1002	Lab Control Sample	Total/NA	Water	8260B	
440-267832-F-7 MS	Matrix Spike	Total/NA	Water	8260B	
440-267832-F-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 614672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1 - RA	DW-4	Total/NA	Water	8260B	
440-267923-2 - RA	MW-2A	Total/NA	Water	8260B	
440-267923-3 - RA	MW-2B	Total/NA	Water	8260B	
440-267923-4 - RA	DW-1	Total/NA	Water	8260B	
440-267923-5 - RA	Field Balnk	Total/NA	Water	8260B	
440-267923-6 - RA	Trip Blank	Total/NA	Water	8260B	
MB 440-614672/4	Method Blank	Total/NA	Water	8260B	
LCS 440-614672/1002	Lab Control Sample	Total/NA	Water	8260B	
320-62119-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
320-62119-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 614306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	3520C	
440-267923-2	MW-2A	Total/NA	Water	3520C	
440-267923-3	MW-2B	Total/NA	Water	3520C	
440-267923-4	DW-1	Total/NA	Water	3520C	
MB 440-614306/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-614306/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-614306/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 614487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	8270C	614306
440-267923-2	MW-2A	Total/NA	Water	8270C	614306
440-267923-3	MW-2B	Total/NA	Water	8270C	614306
440-267923-4	DW-1	Total/NA	Water	8270C	614306
MB 440-614306/1-A	Method Blank	Total/NA	Water	8270C	614306
LCS 440-614306/2-A	Lab Control Sample	Total/NA	Water	8270C	614306
LCSD 440-614306/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	614306

HPLC/IC

Analysis Batch: 614167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	300.0	
440-267923-2	MW-2A	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 614167 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-3	MW-2B	Total/NA	Water	300.0	
440-267923-4	DW-1	Total/NA	Water	300.0	
MB 440-614167/6	Method Blank	Total/NA	Water	300.0	
LCS 440-614167/5	Lab Control Sample	Total/NA	Water	300.0	
440-267923-4 MS	DW-1	Total/NA	Water	300.0	
440-267923-4 MSD	DW-1	Total/NA	Water	300.0	

Analysis Batch: 614168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	300.0	
440-267923-1	DW-4	Total/NA	Water	300.0	
440-267923-2	MW-2A	Total/NA	Water	300.0	
440-267923-2	MW-2A	Total/NA	Water	300.0	
440-267923-3	MW-2B	Total/NA	Water	300.0	
440-267923-3	MW-2B	Total/NA	Water	300.0	
440-267923-4	DW-1	Total/NA	Water	300.0	
440-267923-4 - DL	DW-1	Total/NA	Water	300.0	
MB 440-614168/6	Method Blank	Total/NA	Water	300.0	
LCS 440-614168/5	Lab Control Sample	Total/NA	Water	300.0	
440-267923-4 MS	DW-1	Total/NA	Water	300.0	
440-267923-4 MSD	DW-1	Total/NA	Water	300.0	

Metals

Prep Batch: 614362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total Recoverable	Water	3005A	
440-267923-2	MW-2A	Total Recoverable	Water	3005A	
440-267923-3	MW-2B	Total Recoverable	Water	3005A	
440-267923-4	DW-1	Total Recoverable	Water	3005A	
MB 440-614362/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-614362/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-267923-1 MS	DW-4	Total Recoverable	Water	3005A	
440-267923-1 MSD	DW-4	Total Recoverable	Water	3005A	

Analysis Batch: 615209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total Recoverable	Water	6010B	614362
440-267923-2	MW-2A	Total Recoverable	Water	6010B	614362
440-267923-3	MW-2B	Total Recoverable	Water	6010B	614362
440-267923-4	DW-1	Total Recoverable	Water	6010B	614362
MB 440-614362/1-A	Method Blank	Total Recoverable	Water	6010B	614362
LCS 440-614362/2-A	Lab Control Sample	Total Recoverable	Water	6010B	614362
440-267923-1 MS	DW-4	Total Recoverable	Water	6010B	614362
440-267923-1 MSD	DW-4	Total Recoverable	Water	6010B	614362

General Chemistry

Analysis Batch: 614432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	SM 2320B	
440-267923-2	MW-2A	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 614432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-3	MW-2B	Total/NA	Water	SM 2320B	
440-267923-4	DW-1	Total/NA	Water	SM 2320B	
MB 440-614432/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-614432/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-267923-1 DU	DW-4	Total/NA	Water	SM 2320B	

Analysis Batch: 614519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	SM 5310C	
440-267923-2	MW-2A	Total/NA	Water	SM 5310C	
440-267923-3	MW-2B	Total/NA	Water	SM 5310C	
440-267923-4	DW-1	Total/NA	Water	SM 5310C	
MB 440-614519/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-614519/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-614519/6	Lab Control Sample	Total/NA	Water	SM 5310C	
440-267923-1 MS	DW-4	Total/NA	Water	SM 5310C	
440-267923-1 MSD	DW-4	Total/NA	Water	SM 5310C	

Analysis Batch: 614935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	SM 2540C	
440-267923-2	MW-2A	Total/NA	Water	SM 2540C	
440-267923-3	MW-2B	Total/NA	Water	SM 2540C	
440-267923-4	DW-1	Total/NA	Water	SM 2540C	
MB 440-614935/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-614935/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-268066-F-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 614986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	350.1	
440-267923-2	MW-2A	Total/NA	Water	350.1	
440-267923-3	MW-2B	Total/NA	Water	350.1	
440-267923-4	DW-1	Total/NA	Water	350.1	
MB 440-614986/10	Method Blank	Total/NA	Water	350.1	
LCS 440-614986/11	Lab Control Sample	Total/NA	Water	350.1	
MRL 440-614986/9	Lab Control Sample	Total/NA	Water	350.1	
440-268130-C-2 MS	Matrix Spike	Total/NA	Water	350.1	
440-268130-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Analysis Batch: 615189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	SM 4500 S2 D	
440-267923-2	MW-2A	Total/NA	Water	SM 4500 S2 D	
440-267923-3	MW-2B	Total/NA	Water	SM 4500 S2 D	
440-267923-4	DW-1	Total/NA	Water	SM 4500 S2 D	
MB 440-615189/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-615189/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 440-615189/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
440-267923-1 MS	DW-4	Total/NA	Water	SM 4500 S2 D	
440-267923-1 MSD	DW-4	Total/NA	Water	SM 4500 S2 D	

QC Association Summary

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

Job ID: 440-267923-1

General Chemistry

Analysis Batch: 615347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	410.4	
440-267923-2	MW-2A	Total/NA	Water	410.4	
440-267923-3	MW-2B	Total/NA	Water	410.4	
440-267923-4	DW-1	Total/NA	Water	410.4	
MB 440-615347/3	Method Blank	Total/NA	Water	410.4	
LCS 440-615347/4	Lab Control Sample	Total/NA	Water	410.4	
440-267923-4 MS	DW-1	Total/NA	Water	410.4	
440-267923-4 MSD	DW-1	Total/NA	Water	410.4	

Analysis Batch: 615354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-267923-1	DW-4	Total/NA	Water	SM 4500 CO2 C	
440-267923-2	MW-2A	Total/NA	Water	SM 4500 CO2 C	
440-267923-3	MW-2B	Total/NA	Water	SM 4500 CO2 C	
440-267923-4	DW-1	Total/NA	Water	SM 4500 CO2 C	
MB 440-615354/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	
440-267923-1 DU	DW-4	Total/NA	Water	SM 4500 CO2 C	

Qualifiers

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.

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

Metals

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

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
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
Project/Site: Republic Sunshine Canyon

Job ID: 440-267923-1

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	10-14-20
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	07-31-20
Nevada	State	CA015312020-9	07-31-20
Oregon	NELAP	4028 - 008	01-29-21
USDA	US Federal Programs	P330-18-00214	07-09-21
Washington	State	C900	09-03-20

Chain of Custody Record 389651

eurofins | Environment Testing TestAmerica

Address. _____

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

TAL-8210

Client Contact	Project Manager: Kyle Welchans	Site Contact: Josh Mills	Date: 6/24/2020	COC No.
Company Name: GLA Republic	Tel/Email: 858-451-1136	Lab Contact: Rossina	Carrier: TIA	1 of 1 COCs
Address: 11415 W. Bernardo Ct Suite 200	Analysis Turnaround Time			Sampler: BS, CV, NR
City/State/Zip: San Diego CA 92127	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 858-451-1136	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Republic Services, Inc.	☐ 1 week			
Site: Sunshine Canyon Landfill	☐ 2 days			Job / SDG No.
PO#	☐ 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)	EPA 8260B - VOCs	Total Alkalinity and Bicarbonate	Ammonia as N - EPA 350.2	COD - EPA 410.4	EPA 300 - Chloride, Bromide	Nitrate-N, Sulfate	EPA 6010B - Total B, Ca, Fe, Mg, Mn, K, Na	EPA 160.1 - Total Dissolved Solids	EPA 415.1 - Total Organic Carbon	EPA 340.2 - Fluoride	EPA 376.2 - Sulfide	EPA 8270C - 1,4 Dioxane	SM-4500-CO2 - Carbon Dioxide				Sample Specific Notes:
DW-4	6/24/20	1005	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X				
MW-2A	6/24/20	0821	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X				
MW-2B	6/24/20	0917	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X				
DW-1	6/24/20	0900	G	GW	13			X	X	X	X	X	X	X	X	X	X	X	X	X				
Field Blank	↓	—	G	LAB H2O	4			X																
Trip Blank	↓	—	G	W	4			X																

6/24/20
OC

440-267923 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 1 month)

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

Special Instructions/QC Requirements & Comments: 8260 VOCs includes all 40 CFR Part 258 Appendix I VOCs, Dichlorodifluoromethane and MTBE,

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	6-24-20 1210	[signature]	EC-IRV	6-24-20 12:10
Relinquished by:	Company	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: [signature]	Company: EC-IRV	Date/Time: 6-24-20	Received in Laboratory by: Olga Mapes	Company: EC-IRV	Date/Time: 6/24/20 1730

7/1/2.2 3.2/2.5 10.03 17:38

Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-267923-1

Login Number: 267923
List Number: 1
Creator: Skinner, Alma D

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	

APPENDIX C

MONTHLY VADOSE ZONE GAS MONITORING REPORTS

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: ARAMO			TEMPERATURE: 65			BARO. PRESSURE: 28.36			
GEM SERIAL #: G500485				WEATHER CONDITIONS: CLOUDY					
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	1-21-20	733	-.17	Ø	.2	20.7	79.1	2	
B-29	1-21-20	735	-.15	Ø	.1	20.8	79.1	2	
C-45	1-21-20	739	-1.08	Ø	.1	20.8	79.1	3	
D-61	1-21-20	742	-1.43	Ø	.1	20.9	79.0	4	
E-77	1-21-20	747	-18.71	Ø	.1	20.9	79.8	4	
214									
A-13	1-21-20	821	-.13	.1	.4	20.4	79.1	2	
B-30	1-21-20	823	-1.56	Ø	.5	20.1	79.4	2	
C-48	1-21-20	825	-2.20	Ø	2.4	18.2	79.4	3	
215									
A-13	1-21-20	833	-.09	Ø	4.5	9.5	86.0	2	
B-30	1-21-20	835	-.12	Ø	.3	20.6	79.1	2	
C-47	1-21-20	837	-.16	Ø	.1	20.8	79.1	3	
D-64	1-21-20	840	-.53	Ø	.3	20.4	79.3	4	
E-81	1-21-20	844	-.13	Ø	3.2	13.3	83.5	4	
216									
A-14	1-21-20	855	-.15	Ø	.2	20.7	79.1	2	
B-43	1-21-20	857	-.10	Ø	.2	20.7	79.1	2	
C-62	1-21-20	859	-.12	Ø	.1	20.7	79.2	3	
D-86	1-21-20	902	-.08	Ø	.1	20.6	79.3	4	
E-110	1-21-20	906	-.03	Ø	.1	20.5	79.4	4	
217									
A-13	1-21-20	949	-.03	Ø	21.3	Ø	78.7	2	
B-30	1-21-20	931	-.02	Ø	13.0	9.7	77.3	2	
218R									
A-11	1-21-20	946	-.11	Ø	20.3	.2	79.5	2	
B-26.5	1-21-20	951	-.09	Ø	20.3	6.0	73.7	2	
B-30	1-21-20	953	+.01	Ø	48.2	8.4	43.4	2	
219									
A-13	1-21-20	1013	Ø	Ø	.9	19.7	79.4	2	
B-64	1-21-20	1015	+.05	Ø	.3	20.5	79.2	2	
C-115	1-21-20	1017	+.14	Ø	1.2	18.6	80.2	3	
D-166	1-21-20	1020	-.01	Ø	.9	19.1	80.0	4	
E-217	1-21-20	1024	-.03	Ø	2.0	17.4	80.6	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	1-20-20	7:42	-0.03	0.0	1.3	19.9	78.8	2	
B-40	1-21-20	7:46	-0.10	0.0	0.2	20.6	79.2	2	
C-87	1-21-20	7:53	-0.11	0.0	0.5	20.9	78.6	3	
D-124	1-21-20	8:01	-0.16	0.0	0.1	20.9	79.0	4	
E-158	1-21-20	8:09	-0.09	0.0	0.1	20.8	79.1	4	
220B									
A-14	1-21-20	8:18	-0.03	0.0	2.0	18.3	79.7	2	
B-38	1-21-20	8:22	-0.07	0.0	0.2	20.7	79.1	2	
C-62	1-21-20	8:27	-0.13	0.0	4.8	15.4	79.8	3	
D-86	1-21-20	8:33	-0.11	0.0	3.8	15.6	80.6	4	
E-110	1-21-20	8:39	-0.06	0.0	2.5	18.3	79.2	4	
221									
A-13	1-21-20	8:53	-0.05	0.0	1.2	19.0	79.8	2	
B-56	1-21-20	8:58	-0.15	0.0	0.4	19.9	79.7	2	
C-99	1-21-20	9:03	-0.28	0.0	1.5	18.9	79.7	3	
D-142	1-21-20	9:08	-0.02	0.0	0.1	20.2	79.7	4	
E-185	1-21-20	9:14	-0.01	0.0	0.5	19.2	80.3	4	
222									
A-13	1-21-20	9:23	+0.08	0.0	3.0	17.2	79.8	2	
B-54.8	1-21-20	9:26	+0.06	0.0	0.2	20.2	79.6	2	
C-96.5	1-21-20	9:31	+0.11	0.0	0.3	19.9	79.7	3	
D-138.3	1-21-20	9:36	+0.09	0.0	3.7	16.2	80.1	4	
E-180	1-21-20	9:43	-0.45	0.0	3.5	15.2	81.3	4	
223									
A-13	1-21-20	10:35	-0.07	0.0	6.1	12.7	81.2	2	
B-37.5	1-21-20	10:39	-0.02	0.0	8.2	8.6	83.2	2	
C-62	1-21-20	10:44	-0.02	0.0	2.6	17.0	80.4	3	
D-86.5	1-21-20	10:49	+0.00	0.0	2.3	17.7	80.0	4	
E-111	1-21-20	10:55	+0.01	0.0	2.3	17.8	79.9	4	
224									
A-13	1/21/20	8:00	0.37	0.0	0.6	20.2	79.1	2	
B-67.5	1/21/20	8:02	0.16	0.0	0.4	20.6	79.0	2	
C-122	1/21/20	8:10	0.45	0.0	0.1	20.9	78.9	3	
D-177.5	1/21/20	8:21	-9.72	0.0	0.1	21.0	78.9	4	
E-232	1/21/20	8:31	-8.24	0.0	0.1	20.9	79.0	4	

SCS SINGNATURE: _____ LEA SIGNATURE: _____

John Palos
PROBE Readings
01/21/20

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	1/21/20	8:45	0.37	0.0	4.4	16.4	79.3	2	
B-72	1/21/20	8:49	-3.06	0.0	1.7	19.2	79.0	2	
C-1131	1/21/20	8:52	-9.44	0.0	7.1	14.1	78.8	3	
D-190	1/21/20	8:56	-9.95	0.0	0.3	20.7	79.0	4	
E-244	1/21/20	9:02	-10.03	0.0	0.2	20.7	79.1	4	
226									
A-13	1/21/20	9:18	0.50	0.1	0.1	20.8	79.0	2	
B-64	1/21/20	9:21	-9.62	0.1	0.1	20.8	79.0	2	
C-114	1/21/20	9:25	-10.06	0.1	0.1	20.7	79.2	3	
D-164	1/21/20	9:31	-10.00	0.0	0.1	20.7	79.3	4	
E-208	1/21/20	9:36	-10.81	0.0	0.1	20.4	79.5	4	
227									
A-13	1/21/20	9:47	0.51	0.0	0.1	20.4	79.5	2	
B-48.7	1/21/20	9:50	0.22	0.0	1.8	13.4	84.8	2	
C-84.4	1/21/20	9:53	0.19	0.0	1.1	15.9	82.9	3	
D-114	1/21/20	10:00	0.09	0.0	1.0	15.9	83.1	4	
E-115.7	1/21/20	10:04	0.14	0.0	1.0	16.3	82.7	4	
228									
A-13	1/21/20	10:15	0.56	0.0	0.5	19.7	79.8	2	
B-63	1/21/20	10:19	-0.16	0.0	1.5	16.8	81.6	2	
C-113	1/21/20	10:23	0.38	0.0	0.2	21.0	78.8	3	
D-163	1/21/20	10:30	0.14	0.0	0.6	20.5	78.8	4	
E-213	1/21/20	10:36	-0.10	0.0	2.0	17.0	81.0	4	
229									
A-13	1/21/20	10:59	-1.13	0.1	0.5	20.3	79.1	2	
B-48.7	1/21/20	11:04	-9.37	0.0	0.1	20.8	79.1	2	
C-84.4	1/21/20	11:08	-8.68	0.0	0.2	20.3	79.5	3	
D-114	1/21/20	11:12	-16.27	0.0	0.3	20.1	79.6	4	
E-155.7	1/21/20	11:20	-24.99	0.0	0.1	20.9	79.0	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: JP

LEA SIGNATURE:_____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	1-21-20	1049	-5.72	Ø	.1	20.6	79.3	2	
B-28	1-21-20	1051	-4.97	Ø	.1	20.5	79.4	2	
C-47	1-21-20	1053	-1.37	Ø	.1	20.5	79.4	3	
D-64	1-21-20	1055	-1.39	Ø	.1	20.5	79.4	4	
E-85	1-21-20	1100	-15.49	Ø	.1	20.5	79.4	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Reyes | TEMPERATURE: 62 | BARO. PRESSURE: 28.16

GEM SERIAL #: G500485 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	1/23/20	9:18	+.24	0	3.1	17.7	79.2	2	
B-25	1/23/20	9:21	+.19	0	4.7	15.9	79.4	2	
C-40	1/23/20	9:27	+.21	0	5.8	15.7	79.3	3	
206									
A-10	1-23-20	1017	0	0	9.2	10.7	80.1	2	
B-25	1-23-20	1019	+.05	0	11.9	9.9	78.2	2	
C-40	1-23-20	1021	+.64	0	16.2	8.7	75.1	3	
207									
A-10	1-23-20	1039	-.73	0	1.5	19.3	79.2	2	
B-25	1-23-20	1041	+6.04	0	.5	20.3	79.2	2	
C-40	1-23-20	1043	+21.58	0	.9	19.3	79.8	3	
208									
A-9.1	1-23-20	959	+.02	0	.3	20.4	79.3	2	
B-25	1-23-20	1001	+.03	0	4.8	16.2	79.0	2	
C-40	1-23-20	1003	+.01	0	5.7	13.8	80.5	3	
210									
A-10	1-23-20	857	-.03	0	.7	19.8	79.5	2	
B-25	1-23-20	859	-.05	0	.3	19.7	80.0	2	
C-39	1-23-20	901	-.03	0	.3	18.8	80.9	3	
242									
C-42	1-26-20	914	-.03	0	2.1	18.6	79.3	3	
D-60	1-23-20	917	-.04	0	10.6	.5	88.9	4	
E-78	1-23-20	921	+.05	0	3.0	17.6	79.4	4	
243									
A-11	1/23/20	8:26	+.13	.3	12.1	0	87.6	2	
B-20	1/23/20	8:29	+.20	0	2.4	15.8	81.8	2	
C-33	1/23/20	8:33	-.11	0	2.4	15.9	81.6	3	

SCS SIGNATURE: _____

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	1-23-20	940	-.33	Ø	16.7	.6	82.7	2	
B-21	1-23-20	942	+.01	Ø	4.4	16.1	79.5	2	
C-36	1-23-20	944	+.01	Ø	14.6	9.4	76.0	3	
245									
A-11	1/23/20	8:43	+.09	Ø	11.3	6.5	82.2	2	
B-20	1/23/20	8:47	+.11	.1	21.2	1.8	76.9	2	
C-35	1/23/20	8:50	+.12	Ø	19.8	2.7	77.5	3	
D-50	1/23/20	8:59	+.19	Ø	18.0	Ø	82.0	4	
E-64	1/23/20	9:07	+.25	Ø	5.8	10.9	83.3	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	1/23/20	7:49	+.04	Ø	10.7	2.9	86.4	2	
B-20	1/23/20	7:52	+.09	Ø	18.8	3.6	77.5	2	
C-33	1/23/20	7:56	-.10	1.7	39.3	1.6	57.4	3	
D-48	1/23/20	8:04	+.03	2.6	45.0	Ø	52.4	4	
E-62	1/23/20	8:11	-.18	Ø	22.4	.9	76.7	4	
239									
A-11	1-23-20	827	-.10	Ø	10.9	17.1	72.0	2	
B-20	1-23-20	829	-.09	Ø	.4	20.4	79.2	2	
C-35	1-23-20	831	-.01	Ø	.1	20.7	79.2	3	
D-50	1-23-20	834	+.01	Ø	.2	20.6	79.2	4	
E-64	1-23-20	838	Ø	Ø	.2	20.5	79.3	4	
240									
A-11	1-23-20	787	-.12	Ø	.2	20.9	78.9	2	
B-20	1-23-20	801	-.13	Ø	1.1	20.4	78.5	2	
C-33	1-23-20	803	-.09	Ø	.2	20.8	79.0	3	
D-49	1-23-20	806	-.14	Ø	.2	20.8	79.0	4	
E-61	1-23-20	810	-.14	.1	.1	20.8	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ TEMPERATURE: 62 BARO. PRESSURE: 28.16

GEM SERIAL #: G 502 765 WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	01/23/20	9:42	+0.16	⊘	14.1	⊘	85.9		
B	01/23/20	9:47	-1.40	⊘	0.6	20.4	79.1	2	
C	01/23/20	9:59	-2.03	⊘	0.1	20.9	79.0	2	
								3	

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	01/24/20	9:50	-0.70	0.3	0.2	20.5	79.0		
PV204D	1/23/20	1048	-5.04	0	.1	20.7	79.2		
PV211D	01/23/20	10:10	+0.22	0	0.3	20.4	79.3		

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Romo | TEMPERATURE: 68 | BARO. PRESSURE: 28.23

GEM SERIAL #: E500485 | WEATHER CONDITIONS: PARTLY CLOUDY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	2-18-20	726	-.04	Ø	1.6	18.7	79.7	2	
B-29	2-18-20	728	-.05	Ø	1.0	18.8	80.2	2	
C-45	2-18-20	730	-.71	Ø	.2	20.8	79.0	3	
D-61	2-18-20	733	-.83	Ø	.2	20.9	78.9	4	
E-77	2-18-20	737	-16.96	Ø	.2	21.0	78.8	4	
214									
A-13	2-18-20	752	+.61	Ø	5.6	12.4	82.0	2	
B-30	2-18-20	754	-11.96	Ø	.8	20.6	78.6	2	
C-48	2-18-20	756	-15.11	Ø	.8	20.3	78.9	3	
215									
A-13	2-18-20	803	-.06	Ø	4.3	9.9	85.8	2	
B-30	2-18-20	805	+.01	Ø	3.6	14.1	82.3	2	
C-47	2-18-20	807	Ø	Ø	.3	20.9	78.3	3	
D-64	2-18-20	811	-.04	Ø	.4	20.4	79.2	4	
E-81	2-18-20	815	-.06	Ø	3.4	13.3	83.3	4	
216									
A-14	2-18-20	830	-.01	Ø	4.6	9.7	85.7	2	
B-43	2-18-20	832	-.02	Ø	4.2	13.0	82.8	2	
C-62	2-18-20	834	-.04	Ø	.3	21.0	78.7	3	
D-86	2-18-20	837	-.11	Ø	.4	20.4	79.2	4	
E-110	2-18-20	841	+.02	Ø	3.2	13.8	83.0	4	
217									
A-13	2-18-20	903	+.04	Ø	4.3	17.0	78.7	2	
B-30	2-18-20	905	+.25	Ø	2.1	19.0	78.9	2	
218R									
A-11	2-18-20	920	+.02	Ø	18.1	2.4	79.5	2	
B-26.5	2-18-20	922	+.02	Ø	20.8	5.5	73.7	2	
B-30	2-18-20	924	-.70	Ø	46.1	9.1	44.8	2	
219									
A-13	2-18-20	946	+.03	Ø	1.1	19.2	79.7	2	
B-64	2-18-20	948	+.02	Ø	7.4	5.7	86.9	2	
C-115	2-18-20	950	+.08	Ø	1.8	17.4	80.8	3	
D-166	2-18-20	953	-.05	Ø	1.1	18.9	80.0	4	
E-217	2-18-20	957	+.04	Ø	2.5	16.0	81.5	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	2/18/20	7:40	+0.01	0.0	2.0	20.1	78.0	2	
B-40	2/18/20	7:52	-0.05	0.0	0.6	20.7	78.6	2	
C-87	2/18/20	7:58	-0.07	0.0	0.7	20.6	78.7	3	
D-124	2/18/20	8:10	+0.01	0.0	0.1	20.9	79.0	4	
E-158	2/18/20	8:12	-0.08	0.0	0.1	20.9	79.0	4	
220B									
A-14	2/18/20	8:29	-0.04	0.0	2.2	18.2	79.6	2	
B-38	2/18/20	8:36	-0.06	0.0	0.1	20.7	79.2	2	
C-62	2/18/20	8:40	-0.20	0.0	4.7	14.9	80.3	3	
D-86	2/18/20	8:46	-0.10	0.0	3.0	17.8	79.3	4	
E-110	2/18/20	8:52	-0.06	0.0	2.5	18.1	79.4	4	
221									
A-13	2/18/20	9:10	-0.02	0.0	1.1	18.8	80.1	2	
B-56	2/18/20	9:13	-0.17	0.0	0.3	19.9	79.8	2	
C-99	2/18/20	9:20	-0.31	0.0	1.6	18.8	79.7	3	
D-142	2/18/20	9:25	-0.05	0.0	0.1	20.0	79.9	4	
E-185	2/18/20	9:34	-0.05	0.0	0.3	19.4	80.3	4	
222									
A-13	2/18/20	9:46	+0.03	0.0	2.2	17.7	80.1	2	
B-54.8	2/18/20	9:49	+0.01	0.0	0.1	19.9	80.0	2	
C-96.5	2/18/20	9:54	-0.07	0.0	0.2	19.7	80.1	3	
D-138.3	2/18/20	10:00	+0.06	0.0	3.1	16.4	80.5	4	
E-180	2/18/20	10:04	+0.23	0.0	5.9	3.9	90.1	4	
223									
A-13	2/18/20	10:21	+0.10	0.0	5.6	12.8	81.6	2	
B-37.5	2/18/20	10:25	+0.09	0.0	6.7	10.9	82.4	2	
C-62	2/18/20	10:30	+0.05	0.0	1.3	18.5	80.2	3	
D-86.5	2/18/20	10:35	+0.10	0.0	2.0	17.8	80.2	4	
E-111	2/18/20	10:40	+0.09	0.0	2.1	17.8	80.1	4	
224									
A-13	2/18/20	11:16	+0.07	0.1	0.5	20.2	79.3	2	
B-67.5	2/18/20	11:21	-0.16	0.0	0.2	20.4	79.4	2	
C-122	2/18/20	11:26	-0.13	0.0	0.0	20.4	79.5	3	
D-177.5	2/18/20	11:33	-12.77	0.0	0.0	20.3	79.7	4	
E-232	2/18/20	11:39	-4.65	0.0	0.0	20.2	79.8	4	

SCS SINGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	2/18/20	1:41	+0.03	0.0	6.2	14.2	79.6	2	
B-72	2/18/20	1:46	-2.30	0.0	2.5	19.0	78.6	2	
C-1131	2/18/20	1:51	-6.99	0.0	8.7	11.9	79.4	3	
D-190	2/18/20	1:57	+0.11	0.0	0.1	20.9	79.0	4	
E-244	2/18/20	2:02	-8.27	0.0	0.1	20.9	79.0	4	
226									
A-13	2/18/20	2:41	+0.13	0.0	0.0	20.5	79.5	2	
B-64	2/18/20	2:43	-8.73	0.0	0.0	20.7	79.3	2	
C-114	2/18/20	2:45	-8.01	0.0	0.0	20.9	79.1	3	
D-164	2/18/20	2:52	-8.94	0.0	0.0	20.9	79.1	4	
E-208	2/18/20	2:57	-1.03	0.0	0.0	21.0	79.0	4	
227									
A-13	2-18-20	1344	+.10	Ø	2.0	8.4	89.6	2	
B-48.7	2-18-20	1346	+.73	Ø	5.2	.8	94.0	2	
C-84.4	2-18-20	1348	+.55	Ø	5.0	1.0	94.0	3	
D-114	2-18-20	1351	+.76	Ø	3.9	.2	95.9	4	
E-115.7	2-18-20	1355	+37	Ø	4.7	.7	94.1	4	
228									
A-13	2-18-20	1403	+.10	Ø	1.1	18.5	80.4	2	
B-63	2-18-20	1405	+.75	Ø	1.7	16.0	82.3	2	
C-113	2-18-20	1407	+.51	Ø	1.3	19.8	78.9	3	
D-163	2-18-20	1410	+.12	Ø	4.3	3.1	92.6	4	
E-213	2-18-20	1414	+.94	Ø	4.9	.1	95.0	4	
229									
A-13	2/18/20	2:14	-1.51	0.0	0.5	19.0	80.4	2	
B-48.7	2/18/20	2:18	-9.03	0.0	0.1	20.5	79.4	2	
C-84.4	2/18/20	2:22	-7.74	0.0	0.2	19.8	80.0	3	
D-114	2/18/20	2:28	-15.55	0.0	0.3	19.3	80.4	4	
E-155.7	2/18/20	2:34	-24.65	0.0	0.0	20.2	79.7	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	2-18-20	1056	-1.90	.1	.1	20.1	79.7	2	
B-28	2-18-20	1058	-13.85	Ø	.1	20.0	79.9	2	
C-47	2-18-20	1102	+.13	Ø	.1	20.0	79.9	3	
D-64	2-18-20	1106	-.57	Ø	.1	20.0	79.9	4	
E-85	2-18-20	1110	-4.38	Ø	.1	20.0	79.9	4	

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A ROMO / A MARTINEZ

TEMPERATURE: 70

BARO. PRESSURE: 28.17

GEM SERIAL #: G500485

WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10									
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								2	REMOVED DUE TO CONSTRUCTION
								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	2-20-20	939	+.24	Ø	3.0	18.2	78.8		
B-25	2-20-20	943	+.30	Ø	4.8	16.2	79.0	2	
C-40	2-20-20	947	+.31	Ø	4.0	16.8	79.2	2	
								3	
206									
A-10	2-20-20	1015	+.16	Ø	9.0	11.2	79.8		
B-25	2-20-20	1017	+.11	Ø	10.7	10.5	78.8	2	
C-40	2-20-20	1019	+.13	Ø	17.0	7.4	75.6	2	
								3	
207									
A-10	2-20-20	1028	-.51	Ø	.9	20.0	79.1		
B-25	2-20-20	1030	-5.20	Ø	.6	20.1	79.3	2	
C-40	2-20-20	1032	+19.88	Ø	1.3	17.2	81.5	2	
								3	
208									
A-9 1	2-20-20	958	+.12	Ø	.5	19.8	79.7		
B-25	2-20-20	1000	+.04	Ø	7.5	13.0	79.5	2	
C-40	2-20-20	1002	+.10	Ø	5.1	14.1	80.8	2	
								3	
210									
A-10	2-20-20	853	-.03	Ø	.5	19.8	79.7		
B-25	2-20-20	855	+.06	Ø	.3	20.1	79.6	2	
C-39	2-20-20	857	-.04	Ø	.3	19.3	80.4	2	
								3	
242									
C-42	2-20-20	911	-.02	Ø	1.7	18.5	79.8		
D-60	2-20-20	914	+.03	Ø	7.2	7.0	85.8	3	
E-78	2-20-20	918	+.09	Ø	2.8	17.2	80.0	4	
								4	
243									
A-11	2-20-20	818	+.10	.1	11.7	.3	87.9		
B-20	2-20-20	822	+.21	Ø	2.7	16.8	80.5	2	
C-33	2-20-20	826	+.19	Ø	2.6	17.4	80.0	2	
								3	

SCS SIGNATURE: A MARTINEZ

LEA SIGNATURE

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	2-20-20	940	-.04	.1	13.7	4.2	82.0	2	
B-21	2-20-20	942	-.07	.1	17.0	3.9	79.0	2	
C-36	2-20-20	944	+.04	Ø	2.8	17.8	79.4	3	
245									
A-11	2-20-20	843	+.18	Ø	10.3	8.4	81.3	2	
B-20	2-20-20	846	+.18	.1	14.8	7.9	77.2	2	
C-35	2-20-20	851	+.19	Ø	20.3	2.5	77.2	3	
D-50	2-20-20	851	+.09	Ø	17.1	1.4	81.6	4	
E-64	2-20-20	902	+.14	Ø	1.7	17.7	80.5	4	
246									
A-9									
B-16								2	REMOVED DUE TO CONSTRUCTION
								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	2-20-20	733	+.07	Ø	11.1	5.3	83.6	2	
B-20	2-20-20	737	+.13	Ø	18.8	4.2	77.0	2	
C-33	2-20-20	742	-.36	1.6	40.0	1.5	57.0	3	
D-48	2-20-20	748	+.01	2.4	45.4	Ø	52.2	4	
E 62	2-20-20	755	-.21	.1	23.6	.8	75.6	4	
239									
A-11	2-20-20	828	Ø	Ø	13.5	13.9	72.5	2	
B-20	2-20-20	830	+3.32	Ø	.6	20.4	79.0	2	
C-35	2-20-20	832	-.04	Ø	.2	20.5	79.3	3	
D-50	2-20-20	835	+.03	Ø	.3	20.3	79.4	4	
E-64	2-20-20	839	Ø	Ø	.2	20.3	79.5	4	
240									
A-11	2-20-20	756	-.25	Ø	3.2	17.6	79.2	2	
B-20	2-20-20	758	-.09	Ø	1.3	20.2	78.5	2	
C-33	2-20-20	800	-.19	Ø	.3	20.8	78.9	3	
D-49	2-20-20	803	-.09	Ø	.3	20.7	79.0	4	
E-61	2-20-20	807	-.05	.1	.2	20.7	79.0	4	

SCS SINGNATURE: A MARTINEZ

LEA SIGNATURE:

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A MARTINEZ | TEMPERATURE: 70 °F | BARO. PRESSURE: 30.12"

GEM SERIAL #: G502765 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	02/20/20	9:18	+0.21	0	13.5	0.1	86.4		
B	02/20/20	9:22	-1.52	0	0.5	19.8	79.7	2	
C	02/20/20	9:26	-5.17	0	0.1	20.9	79.1	2	
D								3	
								3	

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE_____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	2-20-20	1009	-9.64	Ø	.6	20.5	78.9		
PV204D	2-20-20	1037	-5.74	Ø	.3	20.6	79.1		
PV211D	2-20-20	957	-6.31	Ø	.1	20.8	79.1		

SCS SIGNATURE: D MONTINEZ

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Romo | TEMPERATURE: 60 | BARO. PRESSURE: 28.44

GEM SERIAL #: G500485 | WEATHER CONDITIONS: Cloudy

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	3-24-20	739	-.13	Ø	.2	20.9	78.9	2	
B-29	3-24-20	743	-.13	Ø	.1	20.9	79.0	2	
C-45	3-24-20	745	-.50	Ø	.1	20.9	79.0	3	
D-61	3-24-20	748	-.92	Ø	.1	20.9	79.0	4	
E-77	3-24-20	753	-6.87	Ø	.1	20.9	79.0	4	
214									
A-13	3-24-20	804	-3.16	Ø	.1	20.8	79.1	2	
B-30	3-24-20	817	-.15	Ø	.1	20.8	79.1	2	
C-48	3-24-20	819	-4.09	Ø	.2	20.8	79.0	3	
215									
A-13	3-24-20	833	-.48	Ø	4.8	9.2	86.0	2	
B-30	3-24-20	835	-.12	Ø	.3	20.6	79.1	2	
C-47	3-24-20	837	-.39	Ø	.1	21.0	78.9	3	
D-64	3-24-20	840	-.08	Ø	.3	20.5	79.2	4	
E-81	3-24-20	844	-.11	Ø	3.6	12.4	84.0	4	
216									
A-14	3-24-20	855	-.13	Ø	.2	20.5	79.3	2	
B-43	3-24-20	857	-.14	Ø	.1	20.1	78.8	2	
C-62	3-24-20	901	-.11	Ø	.1	20.9	79.0	3	
D-86	3-24-20	904	-.06	Ø	.1	20.9	79.0	4	
E-110	3-24-20	909	-.02	Ø	.2	20.7	79.1	4	
217									
A-13	3-24-20	941	-.11	.1	3.6	18.3	78.0	2	
B-30	3-24-20	943	-.07	.1	3.1	18.1	78.7	2	
218R									
A-11	3-24-20	958	-.07	Ø	19.6	2.0	78.4	2	
B-26.5	3-24-20	1000	-.09	.1	25.7	Ø	74.2	2	
B-30	3-24-20	1002	-.10	Ø	52.5	6.7	40.8	2	
219									
A-13	3-24-20	1028	-.07	Ø	1.4	16.9	81.7	2	
B-64	3-24-20	1030	-.07	Ø	.2	20.5	79.3	2	
C-115	3-24-20	1032	-.07	Ø	1.8	16.9	81.3	3	
D-166	3-24-20	1035	-.02	Ø	1.2	18.0	80.8	4	
E-217	3-24-20	1039	-.09	Ø	2.5	14.4	83.1	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220	~~3/24/20~~								
A-14	3/24/20	7:47	-0.02	0.1	1.5	19.1	79.3	2	
B-40	3/24/20	7:50	-0.16	0.0	0.1	20.9	79.0	2	
C-87	3/24/20	7:53	-0.09	0.1	0.2	20.9	78.9	3	
D-124	3/24/20	7:58	-0.02	0.0	0.1	20.9	79.0	4	
E-158	3/24/20	8:04	-0.09	0.0	0.1	20.9	78.9	4	
220B									
A-14	3/24/20	8:15	-0.04	0.0	.2	20.8	79.0	2	
B-38	3/24/20	8:17	-0.08	0.0	0.8	20.2	79.1	2	
C-62	3/24/20	8:23	-0.13	0.0	4.4	15.5	80.1	3	
D-86	3/24/20	8:27	+0.01	0.0	0.7	20.7	78.6	4	
E-110	3/24/20	8:31	-0.04	0.0	2.2	18.2	79.6	4	
221									
A-13	3/24/20	8:50	-0.01	0.0	1.1	20.9	78.0	2	
B-56	3/24/20	8:54	-0.25	0.0	0.7	20.7	78.6	2	
C-99	3/24/20	8:58	-0.29	0.0	1.5	20.9	77.6	3	
D-142	3/24/20	9:04	-0.04	0.0	0.1	20.9	79.0	4	
E-185	3/24/20	9:09	+0.01	0.0	0.3	20.5	79.2	4	
222									
A-13	3/24/20	9:32	+0.06	0.1	2.4	17.9	79.6	2	
B-54.8	3/24/20	9:35	-0.08	0.1	0.1	20.8	79.0	2	
C-96.5	3/24/20	9:38	+0.09	0.1	0.3	20.5	79.1	3	
D-138.3	3/24/20	9:44	+0.02	0.1	3.2	17.0	79.7	4	
E-180	3/24/20	9:50	-1.34	0.1	3.5	16.0	80.3	4	
223									
A-13	3/24/20	10:06	+0.10	0.1	4.1	13.4	82.4	2	
B-37.5	3/24/20	10:09	+0.08	0.2	1.2	19.2	79.3	2	
C-62	3/24/20	10:13	+0.06	0.1	0.7	19.9	79.4	3	
D-86.5	3/24/20	10:18	+0.11	0.1	1.8	17.8	80.3	4	
E-111	3/24/20	10:23	+0.06	0.1	1.1	19.2	79.6	4	
224									
A-13	3/24/20	10:47	0.03	0.1	0.1	20.8	79.0	2	
B-67.5	3/24/20	10:50	-0.36	0.0	0.1	20.8	79.0	2	
C-122	3/24/20	10:55	-1.27	0.0	0.1	20.9	79.0	3	
D-177.5	3/24/20	11:01	-14.64	0.0	0.1	20.9	79.0	4	
E-232	3/24/20	11:06	-10.76	0.0	0.1	20.9	79.0	4	

SCS SINGNATURE: [signature]

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	3/24/20	11:29	+0.01	0.1	7.0	12.1	80.8	2	
B-72	3/24/20	11:32	-3.05	0.1	1.8	18.3	79.8	2	
C-1131	3/24/20	11:36	-8.67	0.1	10.4	8.8	80.7	3	
D-190	3/24/20	11:41	-9.82	0.1	0.2	20.5	79.2	4	
E-244	3/24/20	11:45	-10.21	0.1	0.2	20.6	79.2	4	
226									
A-13	3/24/20	1:46	0.11	0.0	0.1	20.9	79.0	2	
B-64	3/24/20	1:49	-9.84	0.0	0.1	20.9	79.0	2	
C-114	3/24/20	1:52	-10.38	0.0	0.1	20.9	79.1	3	
D-164	3/24/20	1:57	-10.55	0.0	0.1	20.8	79.1	4	
E-208	3/24/20	2:02	-11.10	0.0	0.1	20.7	79.2	4	
227									
A-13	3/24/20	2:10	+0.13	0.0	0.1	20.6	79.4	2	
B-48.7	3/24/20	2:13	-0.56	0.0	0.1	20.4	79.5	2	
C-84.4	3/24/20	2:17	-0.29	0.0	0.2	20.3	79.5	3	
D-114	3/24/20	2:22	-0.65	0.0	0.2	20.3	79.5	4	
E-115.7	3/24/20	2:27	-0.39	0.0	0.4	19.6	80.0	4	
228									
A-13	3/24/20	2:36	+0.22	0.0	0.7	18.9	80.4	2	
B-63	3/24/20	2:39	+0.15	0.0	0.1	20.7	79.2	2	
C-113	3/24/20	2:43	-0.10	0.0	0.3	20.6	79.1	3	
D-163	3/24/20	2:48	-0.53	0.0	1.4	19.2	79.5	4	
E-213	3/24/20	2:53	-0.39	0.0	2.6	15.4	81.9	4	
229									
A-13	3/24/20	3:14	0.07	0.0	1.5	17.1	81.3	2	
B-48.7	3/24/20	3:17	0.06	0.0	0.9	15.7	83.4	2	
C-84.4	3/24/20	3:21	-1.76	0.0	0.1	18.6	80.3	3	
D-114	3/24/20	3:25	-6.84	0.0	1.5	17.3	81.3	4	
E-155.7	3/24/20	3:29	-12.41	0.0	0.1	20.9	79.0	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	3-24-20	1107	-6.67	Ø	.1	20.2	79.7	2	
B-28	3-24-20	1109	-8.66	Ø	.1	20.2	79.7	2	
C-47	3-24-20	1111	Ø	Ø	.1	20.3	79.6	3	
D-64	3-24-20	1114	-5.12	Ø	.1	20.5	79.4	4	
E-85	3-24-20	1118	-15.93	Ø	.1	20.6	79.3	4	

SCS SIGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A MARTINEZ A ROMO | TEMPERATURE: 66 | BARO. PRESSURE: 28.02

GEM SERIAL #: 6503341 6502765 | WEATHER CONDITIONS: PARTLY CLOUDY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	3-26-20	1014	+.11	Ø	3.1	16.8	80.0	2	
B-25	3-26-20	1017	+.13	Ø	3.6	16.6	79.7	2	
C-40	3-26-20	1020	+.12	Ø	3.1	17.1	79.8	3	
206									
A-10	3-26-20	1039	-.20	Ø	8.6	11.2	80.2	2	
B-25	3-26-20	1041	-.24	Ø	9.9	11.8	78.3	2	
C-40	3-26-20	1043	-.52	Ø	14.7	9.3	76.0	3	
207									
A-10	3-26-20	1054	-.98	Ø	1.4	19.1	79.5	2	
B-25	3-26-20	1056	-.09	Ø	.5	19.6	79.9	2	
C-40	3-26-20	1058	+2.80	Ø	1.4	19.6	79.0	3	
208									
A-9.1	3-26-20	1025	-.25	.1	.3	20.5	79.1	2	
B-25	3-26-20	1027	-.29	.1	8.3	13.3	78.3	2	
C-40	3-26-20	1029	-.17	.1	16.8	.8	82.3	3	
210									
A-10	3-26-20	857	-.35	Ø	.9	19.7	79.4	2	
B-25	3-26-20	859	-.33	Ø	.5	20.1	79.4	2	
C-39	3-26-20	901	-.31	Ø	.3	19.9	79.8	3	
242									
C-42	3-26-20	921	-.34	Ø	3.0	15.4	81.6	3	
D-60	3-26-20	924	-.77	Ø	5.9	10.2	83.9	4	
E-78	3-26-20	928	-.29	Ø	5.2	10.2	84.6	4	
243									
A-11	3-26-20	911	+.03	.4	12.5	Ø	87.1	2	
B-20	3-26-20	915	+.01	Ø	3.4	5.2	91.4	2	
C-33	3-26-20	920	00	Ø	3.1	6.2	90.8	3	

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	3-26-20	944	-.30	0	16.3	.3	83.4	2	
B-21	3-26-20	947	-.24	0	12.3	8.9	78.8	2	
C-36	3-26-20	949	-.21	0	22.1	.9	77.0	3	
245									
A-11	3-26-20	937	-.06	0	13.0	4.7	82.3	2	
B-20	3-26-20	941	+.02	.1	23.1	1.1	75.8	2	
C-35	3-26-20	945	+.05	0	15.1	7.5	77.4	3	
D-50	3-26-20	951	+.14	0	17.3	1.5	81.2	4	
E-64	3-26-20	956	+.05	0	8.6	6.9	84.5	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	3-26-20	827	-.27	0	12.3	4.5	83.2	2	
B-20	3-26-20	832	-.12	0	22.0	.4	77.6	2	
C-33	3-26-20	837	-.08	1.3	40.2	.5	58.1	3	
D-48	3-26-20	843	-.15	2.2	44.7	0	53.2	4	
E-62	3-26-20	849	-.46	0	21.9	.4	77.7	4	
239									
A-11	3-26-20	825	-.37	0	15.1	13.4	71.5	2	
B-20	3-26-20	827	-.43	0	.3	20.8	78.9	2	
C-35	3-26-20	829	-.34	0	.2	20.8	79.0	3	
D-50	3-26-20	832	-.38	0	.2	20.7	79.1	4	
E-64	3-26-20	836	-.31	0	.2	20.6	79.2	4	
240									
A-11	3-26-20	759	-.46	0	11.4	12.6	76.0	2	
B-20	3-26-20	801	-.24	0	1.6	19.9	78.5	2	
C-33	3-26-20	803	-.29	0	.2	20.9	78.9	3	
D-49	3-26-20	806	-.43	0	.4	20.7	78.9	4	
E-61	3-26-20	810	-.39	.1	.2	20.8	78.9	4	

SCS SINGNATURE: AMANDO MONTINEZ LEA SIGNATURE:

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Amando Martinez | TEMPERATURE: 54 °F | BARO. PRESSURE: 30.02"

GEM SERIAL #: 4502765 | WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	03/26/20	10:33	+0.07	0	14.6	0	85.4	2	
B	03/26/20	10:37	+0.16	0	1.1	18.0	81.0	2	
C	03/26/20	10:40	-2.94	0	0.1	20.4	79.5	3	
								3	

SCS SIGNATURE: Amando Martinez

LEA SIGNATURE_____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	3-26-20	1103	-10.71	Ø	.4	20.1	79.5		
PV204D	3-26-20	1102	-7.20	Ø	.2	20.2	79.6		
PV211D	3-26-20	1052	-7.43	Ø	.1	20.5	79.5		

SCS SIGNATURE: Amanda Martinez

LEA SIGNATURE:_____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

A. Martinez

TECHNICIAN: A Romo | TEMPERATURE: 66 | BARO. PRESSURE: 28.34

GEM SERIAL #: G500485 | WEATHER CONDITIONS: SUNNY

G502765

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	4-21-20	741	-.17	Ø	.1	20.9	79.0	2	
B-29	4-21-20	743	-.20	Ø	.1	20.9	79.0	2	
C-45	4-21-20	745	-.82	Ø	.1	20.9	79.0	3	
D-61	4-21-20	749	-.95	Ø	.1	20.8	79.1	4	
E-77	4-21-20	753	-8.61	Ø	.1	20.8	79.1	4	
214									
A-13	4-21-20	804	+.04	Ø	1.0	20.5	78.5	2	
B-30	4-21-20	806	-.71	Ø	.1	20.8	79.1	2	
C-48	4-21-20	808	-6.84	Ø	.1	20.8	79.1	3	
215									
A-13	4-21-20	821	-.10	Ø	5.6	8.1	86.3	2	
B-30	4-21-20	823	-.09	Ø	.1	20.6	79.3	2	
C-47	4-21-20	825	-.13	Ø	.1	20.8	79.1	3	
D-64	4-21-20	828	-.11	Ø	.4	20.0	79.6	4	
E-81	4-21-20	832	-.13	Ø	3.4	13.4	83.2	4	
216									
A-14	4-21-20	845	-.10	Ø	.1	20.8	79.1	2	
B-43	4-21-20	847	+.86	Ø	.1	20.7	79.2	2	
C-62	4-21-20	849	+.51	Ø	.1	20.9	79.0	3	
D-86	4-21-20	852	-.22	Ø	.1	20.9	79.0	4	
E-110	4-21-20	856	-.23	Ø	.4	20.5	79.1	4	
217									
A-13	4-21-20	918	-.07	Ø	3.8	17.7	78.5	2	
B-30	4-21-20	920	-.10	Ø	5.0	15.2	79.8	2	
218R									
A-11	4-21-20	933	-.07	Ø	20.1	2.3	77.6	2	
B-26.5	4-21-20	935	-.11	Ø	19.1	.2	80.7	2	
B-30	4-21-20	937	-.15	Ø	48.0	8.0	44.0	2	
219									
A-13	4-21-20	1006	+.01	Ø	2.3	15.4	82.3	2	
B-64	4-21-20	1008	+.03	Ø	9.8	1.5	88.7	2	
C-115	4-21-20	1010	+.01	Ø	2.2	15.5	82.3	3	
D-166	4-21-20	1013	+.02	Ø	.4	19.6	80.0	4	
E-217	4-21-20	1019	+.02	Ø	4.1	10.9	85.0	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220	4/21/20								
A-14	4/21/20	7:45	+0.10	Ø	2.2	18.0	79.8	2	
B-40	4/21/20	7:50	+0.10	Ø	0.1	21.0	78.9	2	
C-87	4/21/20	7:57	+0.02	Ø	0.8	20.0	79.2	3	
D-124	4/21/20	8:02	+0.09	Ø	0.1	21.0	78.9	4	
E-158	4/21/20	8:08	+0.14	Ø	0.1	20.9	79.0	4	
220B									
A-14	4/21/20	8:18	+0.10	Ø	3.1	15.8	81.0	2	
B-38	4/21/20	8:22	+0.13	Ø	0.2	20.8	79.0	2	
C-62	4/21/20	8:27	-0.15	Ø	4.3	14.3	81.4	3	
D-86	4/21/20	8:32	+0.07	Ø	5.8	11.4	82.9	4	
E-110	4/21/20	8:38	+0.16	Ø	3.2	15.8	81.0	4	
221									
A-13	4/21/20	8:50	+0.17	Ø	1.1	19.5	79.3	2	
B-56	4/21/20	8:54	+0.08	Ø	0.3	20.4	79.3	2	
C-99	4/21/20	8:59	+0.02	Ø	1.5	19.5	79.0	3	
D-142	4/21/20	9:04	+0.15	Ø	0.1	20.6	79.3	4	
E-185	4/21/20	9:09	+0.13	Ø	0.6	19.7	79.6	4	
222									
A-13	4/21/20	9:19	+0.22	Ø	3.2	17.2	79.6	2	
B-54.8	4/21/20	9:24	+0.25	Ø	0.1	20.5	79.5	2	
C-96.5	4/21/20	9:27	+0.25	Ø	0.3	20.2	79.5	3	
D-138.3	4/21/20	9:32	+0.22	Ø	3.9	16.2	79.9	4	
E-180	4/21/20	9:37	-0.49	Ø	1.3	18.8	79.8	4	
223									
A-13	4/21/20	9:52	+0.24	Ø	5.1	12.2	82.7	2	
B-37.5	4/21/20	9:55	+0.17	Ø	3.8	15.2	81.0	2	
C-62	4/21/20	9:59	+0.30	Ø	0.7	19.3	80.0	3	
D-86.5	4/21/20	10:04	+0.35	Ø	2.0	17.1	80.9	4	
E-111	4/21/20	10:09	+0.29	Ø	0.9	18.7	80.4	4	
224									
A-13	4/21/20	10:24	+0.06	Ø	0.6	19.6	79.8	2	
B-67.5	4/21/20	10:27	-0.07	Ø	Ø	20.5	79.4	2	
C-122	4/21/20	10:31	+0.27	Ø	Ø	20.5	79.5	3	
D-177.5	4/21/20	10:36	-14.40	Ø	Ø	20.4	79.6	4	
E-232	4/21/20	10:41	-10.14	Ø	Ø	20.3	79.6	4	

SCS SINGNATURE: AMANDO MARTINEZ

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	4/21/20	10:54	+0.31	Ø	3.1	16.8	80.1	2	
B-72	4/21/20	10:57	-2.99	Ø	1.1	19.3	79.6	2	
C-1131	4/21/20	11:00	-8.20	Ø	6.0	13.7	80.2	3	
D-190	4/21/20	11:05	-9.09	Ø	0.1	20.6	79.4	4	
E-244	4/21/20	11:10	-8.62	Ø	0.1	20.6	79.3	4	
226									
A-13	4/21/20	13:36	+0.32	Ø	0.1	20.8	79.1	2	
B-64	4/21/20	13:39	-10.10	Ø	0.2	20.6	79.2	2	
C-114	4/21/20	13:43	-10.47	Ø	0.2	20.5	79.3	3	
D-164	4/21/20	13:47	-10.57	Ø	0.1	20.6	79.3	4	
E-208	4/21/20	13:51	-11.58	Ø	0.1	20.7	79.3	4	
227									
A-13	4/21/20	13:59	+0.40	Ø	Ø	20.9	79.1	2	
B-48.7	4/21/20	14:02	-0.29	Ø	0.7	19.9	79.4	2	
C-84.4	4/21/20	14:05	-0.43	Ø	0.1	20.7	79.2	3	
D-114	4/21/20	14:09	-0.56	Ø	Ø	20.7	79.2	4	
E-115.7	4/21/20	14:14	-0.22	Ø	0.6	19.7	79.7	4	
228									
A-13	4/21/20	14:21	+0.39	Ø	0.5	19.7	79.8	2	
B-63	4/21/20	14:24	-0.10	Ø	1.2	17.4	81.4	2	
C-113	4/21/20	14:28	+0.02	Ø	0.4	20.7	78.9	3	
D-163	4/21/20	14:32	-0.06	Ø	1.5	19.7	78.7	4	
E-213	4/21/20	14:36	-0.26	Ø	2.2	19.2	78.6	4	
229									
A-13	4-21-20	1035	-.48	Ø	1.9	20.0	78.1	2	
B-48.7	4-21-20	1037	-.12	Ø	.1	20.3	79.6	2	
C-84.4	4-21-20	1039	-2.97	Ø	1.4	17.5	81.1	3	
D-114	4-21-20	1042	-7.82	Ø	2.2	15.3	82.5	4	
E-155.7	4-21-20	1046	-12.21	Ø	.1	20.5	79.4	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____ Amanda Martinez LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	4-21-20	1112	-6.27	0	0	20.1	79.9	2	
B-28	4-21-20	1114	-8.66	0	0	20.1	79.9	2	
C-47	4-21-20	1118	+.04	0	0	20.1	79.9	3	
D-64	4-21-20	1121	-8.53	0	0	20.2	79.8	4	
E-85	4-21-20	1125	-14.35	0	0	20.4	79.6	4	

SCS SIGNATURE:_____ LEA SIGNATURE:_____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

Amando / Juan Pablos

TECHNICIAN: A Romo | TEMPERATURE: 71 | BARO. PRESSURE: 28.08

SEM SERIAL #: 6500485 | WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	4.23.20	10:17	+.42	Ø	2.9	17.3	79.8	2	
B-25	4.23.20	1020	+.44	Ø	4.2	16.0	79.7	2	
C-40	4.23.20	1024	+.43	Ø	3.6	16.5	79.8	3	
206									
A-10	4-23.20	1015	+.10	Ø	9.4	10.2	80.4	2	
B-25	4-23.20	1017	+.15	Ø	10.3	10.2	79.5	2	
C-40	4-23.20	1019	+.11	Ø	4.0	8.4	75.6	3	
207									
A-10	4-23.20	1028	+.07	Ø	2.1	17.9	80.0	2	
B-25	4-23.20	1030	+4.09	Ø	.3	19.8	79.9	2	
C-40	4-23.20	1032	+2.41	Ø	1.3	15.1	83.6	3	
208									
A-9.1	4-23.20	948	+.04	Ø	.1	20.3	79.6	2	
B-25	4-23.20	950	+.08	Ø	7.6	13.0	79.1	2	
C-40	4-23.20	952	+.17	Ø	6.0	14.3	79.7	3	
210									
A-10	4-23-20	839	+.02	Ø	.8	19.8	79.4	2	
B-25	4-23.20	841	+.45	Ø	.3	20.2	79.5	2	
C-39	4-23.20	843	+.05	Ø	.2	19.8	80.0	3	
242									
C-42	4-23.20	851	+.06	Ø	1.9	18.6	79.5	3	
D-60	4-23.20	854	+.12	Ø	5.9	10.0	84.1	4	
E-78	4-23.20	858	+.16	Ø	3.2	16.4	80.4	4	
243									
A-11	4-23-20	0827	+.15	.2	11.8	.4	87.6	2	
B-20	4-23-20	0826	+.39	.1	2.4	16.0	81.5	2	
C-33	4-23-20	0830	+.47	.1	2.3	16.8	80.8	3	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	4.23.20	918	+.10	0	16.1	1.0	82.9	2	
B-21	4.23.20	920	+.12	0	8.7	12.3	79.0	2	
C-36	4.23.20	922	0	0	13.1	10.2	76.7	3	
245	4/23/20								
A-11	4/23/20	8:42	+0.24	0.1	13.1	3.4	83.4	2	
B-20	4/23/20	8:45	+0.15	0.4	22.9	0.8	76.0	2	
C-35	4/23/20	8:50	+0.27	0.1	22.8	0.2	76.9	3	
D-50	4/23/20	8:55	+0.20	0.2	17.5	1.0	81.4	4	
E-64	4/23/20	9:02	-0.09	0.1	8.1	7.1	84.7	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	4/23/20	7:46	+0.45	0.1	9.5	4.4	86.0	2	
B-20	4/23/20	7:50	+0.34	0.7	21.6	0.9	76.9	2	
C-33	4/23/20	7:54	-0.02	1.2	37.8	1.7	59.2	3	
D-48	4/23/20	7:59	+0.52	2.9	47.1	0	50.1	4	
E-62	4/23/20	8:10	-2.44	0.7	21.8	0.5	77.1	4	
239									
A-11	4.23.20	813	+.01	0	13.8	14.0	72.2	2	
B-20	4.23.20	815	-.04	0	.1	20.8	79.1	2	
C-35	4.23.20	817	-.05	0	.1	20.9	79.0	3	
D-50	4.23.20	820	-.10	0	.1	20.7	79.2	4	
E-64	4.23.20	824	+.07	0	.1	20.7	79.2	4	
240									
A-11	4.23.20	743	-.10	0	15.9	6.1	78.1	2	
B-20	4.23.20	745	-.08	0	1.2	19.9	78.9	2	
C-33	4.23.20	747	+.26	0	.1	20.9	79.0	3	
D-49	4.23.20	750	+.17	0	.2	20.9	78.9	4	
E-61	4.23.20	754	-.05	0	.1	20.9	79.0	4	

SCS SINGNATURE: AMANDO MARTINEZ / JUAN PALOS LEA SIGNATURE:

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Amartinez / Juan Palos TEMPERATURE: 81°F BARO. PRESSURE: 29.99"

GEM SERIAL #: G 502765 WEATHER CONDITIONS: Sunny

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	4/23/20	9:45	+0.25	0.1	14.5	0.0	85.4	2	
B	4/23/20	9:52	-1.02	0.0	0.7	19.5	79.8	2	
C	4/23/20	9:56	-3.07	0.0	0.0	21.0	79.0	3	
								3	

SCS SIGNATURE: Amando Martinez LEA SIGNATURE

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	4/23/20	9:25	-15.62	0.1	0.4	20.3	79.2		
PV204D	4-23-20	1037	-6.33	0	0	20.5	79.5		
PV211D	4/23/20	10:45	-10.74	0	0.0	20.3	79.7		

SCS SIGNATURE: Amanda Martinez

LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Romo / J Palos TEMPERATURE: 72 BARO. PRESSURE: 28.06

GEM SERIAL #: 6500 WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	5-19-20	735	-.35	Ø	.1	20.9	79.0	2	
B-29	5-19-20	738	-.13	Ø	.1	20.9	79.0	2	
C-45	5-19-20	740	-.52	Ø	.1	21.0	78.9	3	
D-61	5-19-20	743	-.79	Ø	.1	21.0	78.9	4	
E-77	5-19-20	747	-4.12	Ø	.1	21.0	78.9	4	
214									
A-13	5-19-20	808	+.22	Ø	.4	20.8	78.8	2	
B-30	5-19-20	810	-1.36	Ø	.1	20.9	79.0	2	
C-48	5-19-20	812	-7.43	Ø	.6	20.5	78.9	3	
215									
A-13	5-19-20	829	-.24	Ø	5.7	8.6	85.7	2	
B-30	5-19-20	831	+.03	Ø	.1	20.7	79.2	2	
C-47	5-19-20	833	-.49	Ø	.1	20.8	79.1	3	
D-64	5-19-20	836	-.12	Ø	.4	20.2	79.4	4	
E-81	5-19-20	840	+.20	Ø	4.2	12.5	83.3	4	
216									
A-14	5-19-20	900	-.07	Ø	5.6	10.4	84.0	2	
B-43	5-19-20	902	-.04	Ø	.1	20.9	79.0	2	
C-62	5-19-20	904	-.10	Ø	.1	21.0	78.9	3	
D-86	5-19-20	907	-1.91	Ø	4.0	13.0	83.0	4	
E-110	5-19-20	911	-.10	.1	.4	20.2	79.3	4	
217									
A-13	5-19-20	936	+.02	Ø	4.0	16.1	79.9	2	
B-30	5-19-20	938	Ø	Ø	2.8	17.7	79.5	2	
218R									
A-11	5-19-20	950	+.03	Ø	21.6	1.3	77.1	2	
B-26.5	5-19-20	952	Ø	Ø	12.6	7.3	80.1	2	
B-30	5-19-20	954	+.04	Ø	9.6	17.6	72.8	2	
219									
A-13	5-19-20	1015	+.02	Ø	1.5	18.0	80.5	2	
B-64	5-19-20	1017	+.05	Ø	.1	19.7	80.2	2	
C-115	5-19-20	1019	+.10	Ø	1.8	16.5	81.7	3	
D-166	5-19-20	1022	+.09	Ø	.5	19.1	80.4	4	
E-217	5-19-20	1026	+.08	Ø	2.7	15.2	82.1	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	5/19/20	7:57	+10	0.0	2.1	19.0	78.8	2	
B-40	5/19/20	8:00	+0.08	0.0	0.5	20.9	78.6	2	
C-87	5/19/20	8:03	+0.10	0.0	0.6	20.9	78.5	3	
D-124	5/19/20	8:08	+0.24	-0.0	0.2	20.9	78.9	4	
E-158	5/19/20	8:12	-0.15	0.0	0.1	20.9	79.0	4	
220B									
A-14	5/19/20	8:20	+0.12	0.0	2.1	17.0	81.0	2	
B-38	5/19/20	8:22	+0.06	0.0	0.3	20.6	79.1	2	
C-62	5/19/20	8:24	-0.10	0.0	3.0	15.1	81.9	3	
D-86	5/19/20	8:27	+0.05	0.0	3.4	16.3	80.3	4	
E-110	5/19/20	8:31	+0.09	0.0	3.3	16.8	79.8	4	
221									
A-13	5/19/20	8:40	+0.13	0.0	0.9	19.5	79.6	2	
B-56	5/19/20	8:43	+0.01	0.0	0.4	19.8	79.8	2	
C-99	5/19/20	8:46	-0.07	0.0	1.2	18.9	79.0	3	
D-142	5/19/20	8:49	+0.23	0.0	0.2	19.7	80.1	4	
E-185	5/19/20	8:52	+0.26	0.0	0.3	19.0	80.7	4	
222									
A-13	5/19/20	9:00	+0.13	0.0	1.6	17.9	80.5	2	
B-54.8	5/19/20	9:02	+0.22	0.0	0.2	19.7	80.1	2	
C-96.5	5/19/20	9:03	+0.38	0.0	0.3	19.6	80.1	3	
D-138.3	5/19/20	9:06	+0.34	0.0	1.9	17.5	80.1	4	
E-180	5/19/20	9:10	+0.10	0.0	2.9	9.5	87.6	4	
223									
A-13	5/19/20	9:20	+0.07	0.0	6.7	12.1	81.2	2	
B-37.5	5/19/20	9:22	+0.22	0.0	9.1	9.4	81.6	2	
C-62	5/19/20	9:25	+0.29	0.0	3.1	14.5	82.4	3	
D-86.5	5/19/20	9:30	+0.34	0.0	2.4	17.0	80.5	4	
E-111	5/19/20	9:34	+0.41	0.0	2.4	16.9	80.6	4	
224									
A-13	5/19/20	9:40	+0.31	0.0	0.4	19.7	79.9	2	
B-67.5	5/19/20	9:42	+0.37	0.0	0.2	20.3	79.5	2	
C-122	5/19/20	9:46	+0.42	0.0	0.1	20.2	79.7	3	
D-177.5	5/19/20	9:50	-0.55	0.0	0.1	19.9	80.0	4	
E-232	5/19/20	9:54	-8.96	0.0	0.1	19.9	80.1	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	5/19/20	1:46	+0.23	0.0	2.7	19.2	78.1	2	
B-72	5/19/20	1:49	-2.85	0.0	1.2	20.8	78.0	2	
C-1131	5/19/20	1:52	-7.78	0.0	3.0	18.6	78.4	3	
D-190	5/19/20	1:55	-8.87	0.0	0.1	20.9	79.0	4	
E-244	5/19/20	1:59	-9.23	0.0	0.1	20.8	79.1	4	
226									
A-13	5/19/20	2:20	-0.06	0.0	0.1	20.9	79.0	2	
B-64	5/19/20	2:23	-9.91	0.0	0.1	20.9	79.0	2	
C-114	5/19/20	2:28	-10.10	0.0	0.1	20.9	79.0	3	
D-164	5/19/20	2:31	-10.38	0.0	0.1	20.9	79.0	4	
E-208	5/19/20	2:36	-11.14	0.0	0.0	20.9	79.1	4	
227									
A-13	5/19/20	2:50	+0.42	0.0	0.0	20.8	79.2	2	
B-48.7	5/19/20	2:52	+0.13	0.6	3.4	5.8	90.2	2	
C-84.4	5/19/20	2:55	+0.60	0.0	2.1	15.3	82.6	3	
D-114	5/19/20	3:00	+0.35	0.0	0.3	20.1	79.6	4	
E-115.7	5/19/20	3:04	+0.41	0.0	1.9	13.9	84.2	4	
228									
A-13	5/19/20	3:09	+0.51	0.0	0.4	19.2	80.4	2	
B-63	5/19/20	3:12	+0.16	0.0	2.5	12.7	84.8	2	
C-113	5/19/20	3:15	+0.36	0.0	0.3	20.4	79.3	3	
D-163	5/19/20	3:18	+0.42	0.0	1.0	19.7	79.3	4	
E-213	5/19/20	3:25	+0.29	0.0	2.2	16.1	81.7	4	
229									
A-13	5/19/20	10:51	-.17	0.0	2.1	17.8	80.1	2	
B-48.7	5/19/20	10:53	+.14	0.0	0.2	19.3	80.5	2	
C-84.4	5/19/20	10:55	-2.72	0.0	0.1	20.2	79.7	3	
D-114	5/19/20	10:58	-7.30	0.0	2.3	16.4	81.3	4	
E-155.7	5/19/20	11:02	-12.05	0.0	0.1	20.4	79.5	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	5-19-20	1125	-5.13	Ø	Ø	20.4	79.6	2	
B-28	5-19-20	1127	-7.56	Ø	Ø	20.4	79.6	2	
C-47	5-19-20	1130	+.05	Ø	Ø	20.4	79.6	3	
D-64	5-19-20	1134	+.12	Ø	Ø	20.5	79.5	4	
E-85	5-19-20	1138	-13.86	Ø	Ø	20.4	79.6	4	

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: ARUMO/A MARTINEZ TEMPERATURE: 78 BARO. PRESSURE: 28.00

GEM SERIAL #: G500485/G502765 WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	5-21-20	935	+.46	0	3.1	17.5	79.4	2	
B-25	5-21-20	938	+.47	0	3.6	16.4	79.9	2	
C-40	5-21-20	942	+.48	0	3.2	17.1	79.7	3	
206									
A-10	5-21-20	1011	+.21	0	11.3	10.0	78.7	2	
B-25	5-21-20	1013	+.19	0	12.9	7.7	79.4	2	
C-40	5-21-20	1015	+.17	0	18.6	5.5	75.9	3	
207									
A-10	5-21-20	1036	+.03	0	1.3	18.1	80.6	2	
B-25	5-21-20	1038	+.19	0	.2	19.1	80.7	2	
C-40	5-21-20	1040	+.30	0	.3	19.1	80.6	3	
208									
A-9.1	5-21-20	946	+.13	0	.1	18.3	81.6	2	
B-25	5-21-20	949	+.14	0	8.3	11.0	80.7	2	
C-40	5-21-20	951	+.07	0	3.2	15.7	81.1	3	
210									
A-10	5-21-20	837	-.04	.1	.4	19.6	79.9	2	
B-25	5-21-20	839	-.03	0	.2	19.7	80.1	2	
C-39	5-21-20	841	-.05	0	.1	19.5	80.4	3	
242									
C-42	5-21-20	904	+.39	.1	2.6	16.6	80.7	3	
D-60	5-21-20	907	+.03	0	7.0	7.4	85.6	4	
E-78	5-21-20	911	+.04	0	4.9	12.8	82.3	4	
243									
A-11	5-21-20	821	+.27	0	12.3	.4	87.2	2	
B-20	5-21-20	825	+.31	0	4.5	12.9	82.6	2	
C-33	5-21-20	829	+.32	0	4.3	13.9	81.8	3	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	5-21-20	931	-.07	.1	17.2	.2	82.5	2	
B-21	5-21-20	934	+.09	Ø	.4	18.5	81.1	2	
C-36	5-21-20	938	+.09	Ø	4.0	15.4	80.6	3	
245									
A-11	5-21-20	851	+.38	Ø	14.3	3.4	82.3	2	
B-20	5-21-20	854	+.34	.2	21.3	2.3	76.2	2	
C-35	5-21-20	859	+.46	Ø	21.2	1.8	77.0	3	
D-50	5-21-20	905	+.41	.1	17.5	1.0	81.4	4	
E-64	5-21-20	909	+.38	Ø	5.9	10.6	83.5	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	5-21-20	742	+.26	Ø	9.2	10.3	80.5	2	
B-20	5-21-20	745	+.02	Ø	15.4	5.1	79.0	2	
C-33	5-21-20	750	+.17	1.4	42.4	.5	55.6	3	
D-48	5-21-20	755	+.19	2.3	46.9	Ø	50.8	4	
E-62	5-21-20	801	-.12	.1	23.1	.8	75.5	4	
239									
A-11	5-21-20	757	-.06	Ø	12.9	14.0	73.1	2	
B-20	5-21-20	759	-.09	Ø	.2	20.1	79.7	2	
C-35	5-21-20	801	+.01	Ø	.1	20.2	79.7	3	
D-50	5-21-20	804	-.03	Ø	.1	20.2	79.7	4	
E-64	5-21-20	808	+.34	Ø	.2	20.2	79.6	4	
240									
A-11	5-21-20	733	-.11	.1	9.4	12.0	78.5	2	
B-20	5-21-20	735	-.09	.1	1.3	19.3	79.3	2	
C-33	5-21-20	737	-.07	Ø	.1	20.2	79.7	3	
D-49	5-21-20	740	-.13	Ø	.2	20.2	79.6	4	
E-61	5-21-20	744	-.02	Ø	.1	20.3	79.6	4	

SCS SINGNATURE: A MARTINEZ. LEA SIGNATURE:

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ TEMPERATURE: 73° BARO. PRESSURE: 29.94

GEM SERIAL #: G502765 WEATHER CONDITIONS: SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	5/21/20	9:56	+0.45	0	13.8	0.7	85.5	2	
B	5/21/20	9:59	-0.09	0	0.2	20.1	79.6	2	
C	5/21/20	10:03	-2.05	0	0	20.9	79.1	3	
								3	

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE_____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	5/21/20	10:16	-12.36	0	0.3	20.5	79.3		
PV204D	5.21.20	1049	-6.92	0	0	19.4	80.1		
PV211D	5/21/20	9:21	-9.57	0	0	0	20.2		

SCS SIGNATURE: AMANDO MARTINEZ LEA SIGNATURE:_____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Romo | TEMPERATURE: 73 | BARO. PRESSURE: 29.22

GEM SERIAL #: G500485 | WEATHER CONDITIONS: OVERCAST/SUNNY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	6-23-20	737	-.07	Ø	.3	20.5	79.2	2	
B-29	6-23-20	737	-.07	Ø	.1	20.7	79.2	2	
C-45	6-23-20	739	-.99	Ø	.1	20.6	79.3	3	
D-61	6-23-20	742	-.84	Ø	.1	20.6	79.3	4	
E-77	6-23-20	746	-18.95	Ø	.1	20.6	79.3	4	
214									
A-13	6-23-20	812	+.13	Ø	4.7	14.9	80.4	2	
B-30	6-23-20	814	-12.34	Ø	.1	20.7	79.2	2	
C-48	6-23-20	816	-15.93	Ø	1.7	19.0	79.3	3	
215									
A-13	6-23-20	829	-.01	Ø	6.4	6.8	86.8	2	
B-30	6-23-20	831	-.02	Ø	.1	20.4	79.5	2	
C-47	6-23-20	833	+.06	Ø	.1	20.6	79.3	3	
D-64	6-23-20	836	-.02	Ø	.3	20.2	79.5	4	
E-81	6-23-20	840	+.03	Ø	4.8	10.9	84.3	4	
216									
A-14	6-23-20	850	+.03	Ø	.1	20.8	79.1	2	
B-43	6-23-20	852	-.03	Ø	.1	21.0	78.9	2	
C-62	6-23-20	855	+.02	Ø	Ø	20.9	79.1	3	
D-86	6-23-20	859	+.02	Ø	.1	20.8	79.1	4	
E-110	6-23-20	903	-.02	Ø	.6	20.2	79.2	4	
217									
A-13	6-23-20	925	+.09	Ø	4.4	16.1	79.5	2	
B-30	6-23-20	927	+.12	Ø	3.1	17.7	79.2	2	
218R									
A-11	6-23-20	937	+.06	Ø	.3	19.2	80.5	2	
B-26.5	6-23-20	940	+.02	Ø	12.5	9.4	78.1	2	
B-30	6-23-20	942	+.07	Ø	33.1	11.7	55.2	2	
219									
A-13	6-23-20	1015	+.13	.1	1.7	18.2	80.0	2	
B-64	6-23-20	1017	+.11	Ø	.4	19.4	80.2	2	
C-115	6-23-20	1019	+.10	Ø	1.7	16.9	81.4	3	
D-166	6-23-20	1022	+.09	Ø	.2	19.5	80.3	4	
E-217	6-23-20	1026	+.22	Ø	3.2	13.8	83.0	4	

SCS SIGNATURE: _____ LEA SIGNATURE _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220	6/23/20								
A-14	6/23/20	7:44	0.22	0.0	2.0	19.5	78.5	2	
B-40	6/23/20	7:47	0.19	-0.0	0.6	20.9	78.5	2	
C-87	6/23/20	7:51	0.29	0.0	0.5	20.9	78.6	3	
D-124	6/23/20	7:55	0.39	-0.0	0.1	20.9	79.0	4	
E-158	6/23/20	8:00	0.24	0.0	0.1	20.9	79.0	4	
220B									
A-14	6/23/20	8:16	0.33	0.0	2.4	17.6	80.0	2	
B-38	6/23/20	8:19	0.40	0.0	3.3	18.1	78.6	2	
C-62	6/23/20	8:23	0.13	0.0	4.4	19.1	76.5	3	
D-86	6/23/20	8:27	0.24	0.0	5.0	21.0	74.0	4	
E-110	6/23/20	8:36	0.24	0.0	2.9	17.4	79.6	4	
221									
A-13	6/23/20	8:58	0.26	0.1	0.9	19.6	79.4	2	
B-56	6/23/20	9:01	0.24	0.1	1.5	16.6	81.7	2	
C-99	6/22/20	9:04	0.37	0.1	1.3	19.0	79.6	3	
D-142	6/23/20	9:08	0.32	0.0	0.1	20.4	79.5	4	
E-185	6/23/20	9:13	0.27	0.0	1.7	16.2	82.1	4	
222									
A-13	6/23/20	9:29	0.38	0.0	1.3	18.8	79.9	2	
B-54.8	6/23/20	9:31	0.38	0.0	0.1	20.5	79.4	2	
C-96.5	6/23/20	9:33	0.40	0.0	0.2	20.3	79.4	3	
D-138.3	6/23/20	9:37	0.40	0.0	2.1	18.1	79.7	4	
E-180	6/23/20	9:42	0.28	0.0	4.6	14.6	80.8	4	
223									
A-13	6/23/20	10:23	0.31	0.0	6.3	12.3	81.3	2	
B-37.5	6/23/20	10:25	0.35	0.1	7.7	11.0	81.2	2	
C-62	6/23/20	10:27	0.40	0.1	3.9	14.1	82.0	3	
D-86.5	6/23/20	10:30	0.44	0.1	2.3	17.2	80.5	4	
E-111	6/23/20	10:35	0.44	0.1	3.0	16.0	80.9	4	
224									
A-13	6/23/20	10:53	0.48	0.1	0.2	20.0	79.8	2	
B-67.5	6/23/20	10:56	0.43	0.1	0.1	20.1	79.7	2	
C-122	6/23/20	11:01	0.50	0.0	0.0	20.3	79.7	3	
D-177.5	6/23/20	11:04	-13.04	0.0	0.0	20.3	79.7	4	
E-232	6/23/20	11:08	-9.14	0.0	0.0	20.3	79.7	4	

SCS SINGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	6/23	11:23	0.53	0.0	0.7	19.4	79.9	2	
B-72	6/23	11:25	-2.63	0.0	0.4	19.4	80.2	2	
C-1131	6/23	11:27	-7.09	0.0	2.2	17.7	80.0	3	
D-190	6/23	11:31	-8.04	0.0	0.1	20.0	80.0	4	
E-244	6/23	11:34	-8.29	0.0	0.0	19.8	80.2	4	
226									
A-13	6/23	11:40	0.04	0.0	0.0	20.6	79.4	2	
B-64	6/23	11:43	-10.06	0.0	0.0	20.6	79.4	2	
C-114	6/23	11:46	-10.06	0.0	0.0	20.7	79.3	3	
D-164	6/23	11:50	-10.46	0.0	0.0	20.7	79.3	4	
E-208	6/23	11:55	-11.21	0.0	0.1	20.5	79.4	4	
227									
A-13	6/23	10:50	-0.02	0.0	0.0	20.0	79.9	2	
B-48.7	6/23	10:53	-.11	0.0	0.3	19.5	80.2	2	
C-84.4	6/23	10:56	-.11	0.0	0.7	18.7	80.7	3	
D-114	6/23	11:01	-.27	0.0	0.5	18.8	80.7	4	
E-115.7	6/23	11:05	-.10	0.0	0.8	18.0	81.2	4	
228									
A-13	6/23	11:15	+.14	0.0	0.9	18.2	80.8	2	
B-63	6/23	11:19	-25	0.0	1.2	16.8	82.0	2	
C-113	6/23	11:24	-.06	0.0	0.2	19.9	79.9	3	
D-163	6/23	11:29	-.16	0.0	0.5	19.7	79.8	4	
E-213	6/23	11:33	-20	0.0	1.3	17.3	81.4	4	
* 229									
A-13	6/23	10:13	.06	0.0	0.1	19.9	80.	2	
B-48.7	6/23	10:17	-.22	0.0	1.6	11.6	86.8	2	
C-84.4	6/23	10:22	-2.39	0.0	1.3	17.5	81.1	3	
D-114	6/23	10:28	-7.28	0.0	2.3	15.7	82.1	4	
E-155.7	6/23	10:33	-12.05	0.0	0.2	19.5	80.3	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
241									
A-13	6-23-20	1103	-5.50	.1	Ø	19.9	80.0	2	
B-28	6-23-20	1105	-7.82	Ø	Ø	19.9	80.1	2	
C-47	6-23-20	1107	+.22	Ø	Ø	19.9	80.1	3	
D-64	6-23-20	1110	+.28	Ø	Ø	19.9	80.1	4	
E-85	6-23-20	1114	-13.94	Ø	Ø	19.9	80.1	4	

SCS SIGNATURE: _____ LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: ALBERT/AMANDO TEMPERATURE: 68 BARO. PRESSURE: 29.81

GEM SERIAL: GS00485 WEATHER CONDITIONS: OVERCAST

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	6-25-20	952	+.30	Ø	2.9	18.0	79.2	2	
B-25	6-25-20	955	+.35	Ø	4.5	15.8	79.7	2	
C-40	6-25-20	959	+.38	Ø	2.8	17.4	79.8	3	
206									
A-10	6-25-20	1106	+.16	Ø	12.0	9.3	78.7	2	
B-25	6-25-20	1108	+.16	Ø	15.1	6.7	78.2	2	
C-40	6-25-20	1110	+.19	Ø	21.0	4.3	74.7	3	
207									
A-10	6-25-20	1054	+.14	Ø	11.3	10.2	78.5	2	
B-25	6-25-20	1056	+.18	Ø	12.5	9.0	78.5	2	
C-40	6-25-20	1058	+.12	Ø	18.1	6.3	75.1	3	
208									
A-9.1	6-25-20	1024	+.14	Ø	3.9	17.0	79.1	2	
B-25	6-25-20	1026	+.14	Ø	8.8	12.1	79.1	2	
C-40	6-25-20	1028	+.14	Ø	2.1	18.5	79.4	3	
210									
A-10	6-25-20	926	+.03	Ø	.2	20.7	79.1	2	
B-25	6-25-20	928	-.01	Ø	.1	20.7	79.2	2	
C-39	6-25-20	930	+.02	Ø	Ø	20.8	79.2	3	
242									
C-42	6-25-20	944	+.06	Ø	3.8	15.1	81.1	3	
D-60	6-25-20	947	+.02	Ø	7.3	6.6	86.1	4	
E-78	6-25-20	951	+.07	Ø	6.4	9.6	84.0	4	
243									
A-11	6-25-20	824	+.28	.3	13.3	.3	86.0	2	
B-20	6-25-20	828	+.25	Ø	7.2	10.2	82.6	2	
C-33	6-25-20	831	+.35	Ø	7.2	10.5	82.3	3	

SCS SIGNATURE: [signature] LEA SIGNATURE

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	6-25-20	1008	+.11	Ø	14.0	4.5	81.5	2	
B-21	6-25-20	1010	+.12	Ø	17.0	4.3	78.7	2	
C-36	6-25-20	1012	+.07	Ø	4.8	15.5	79.7	3	
245									
A-11	6-25-20	845	+.30	Ø	15.2	4.7	80.1	2	
B-20	6-25-20	849	+.28	.3	21.3	2.8	75.6	2	
C-35	6-25-20	854	+.25	Ø	20.4	2.8	76.7	3	
D-50	6-25-20	859	+.30	Ø	17.2	1.9	80.8	4	
E-64	6-25-20	904	+.34	Ø	9.3	4.8	85.9	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	6-25-20	741	+.23	Ø	7.9	14.3	77.8	2	
B-20	6-25-20	745	+.02	Ø	19.1	3.2	77.7	2	
C-33	6-25-20	749	+.13	1.6	44.0	.6	53.9	3	
D-48	6-25-20	755	+.28	2.8	48.2	Ø	49.0	4	
E-62	6-25-20	802	-.17	.1	23.7	.9	75.3	4	
239									
A-11	6-25-20	854	-.01	Ø	9.8	15.7	74.5	2	
B-20	6-25-20	856	-.01	Ø	.1	20.9	79.0	2	
C-35	6-25-20	858	+.10	Ø	.1	20.9	79.0	3	
D-50	6-25-20	901	-.01	Ø	.1	20.9	79.0	4	
E-64	6-25-20	905	+.50	Ø	.1	21.0	78.9	4	
240									
A-11	6-25-20	831	-.09	Ø	6.3	15.5	78.2	2	
B-20	6-25-20	833	+.03	Ø	1.2	20.0	78.8	2	
C-33	6-25-20	835	+.67	Ø	.1	20.8	79.1	3	
D-49	6-25-20	838	+.02	Ø	.2	20.8	79.0	4	
E-61	6-25-20	842	+.09	.1	.1	20.8	79.0	4	

SCS SINGNATURE: _____

LEA SIGNATURE: _____

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: AMANDO MARTINEZ TEMPERATURE: 70° BARO. PRESSURE: 29.81"

GEM SERIAL #: G502765 WEATHER CONDITIONS: MOSTLY CLOUDY

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202R									
A	6/25/20	10:14	+0.40	0	13.9	0.5	85.5	2	
B	6/25/20	10:17	+0.74	0	0.5	18.9	80.6	2	
C	6/25/20	10:21	-0.77	0	0	20.3	79.6	3	
								3	

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE_____

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
VADOSE									
ZONE									
PV203D	06/25/20	9:33	-11.18	0	0.1	20.8	79.1		
PV204D	6.25.20	1050	-6.25	0	0	19.8	80.2		
PV211D	06/25/20	9:17	-8.04	0	0.1	20.9	79.0		

SCS SIGNATURE: AMANDO MARTINEZ

LEA SIGNATURE: _____

APPENDIX D

NPDES CERTIFICATION OF COMPLETION

SUNSHINE CANYON
Landfill

14747 San Fernando Road
Sylmar, CA 91342

August 15, 2020

Operating Records
Sunshine Canyon Landfill
14747 San Fernando Road
Sylmar, CA 91342

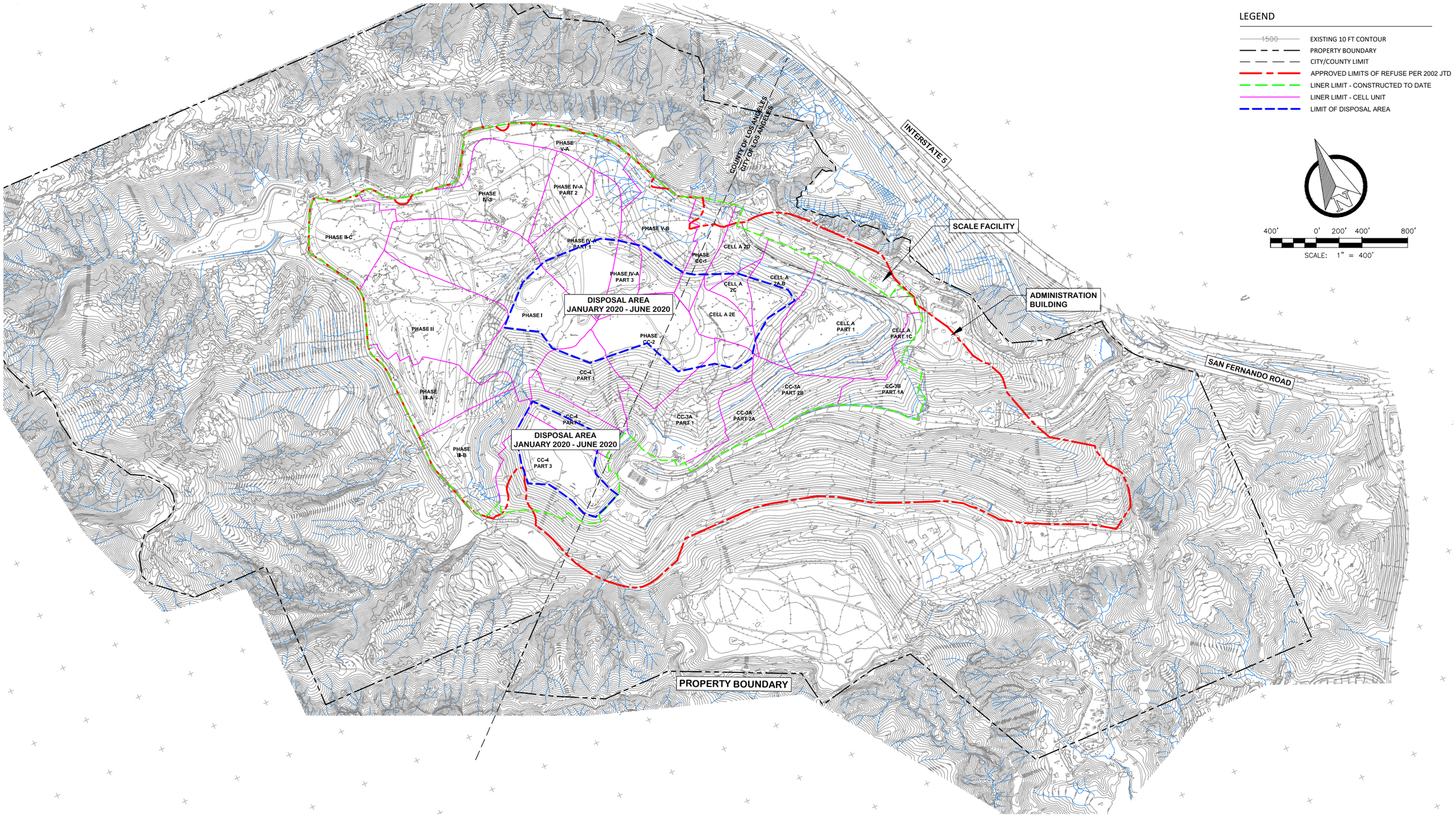
Please be advised that all standard observations for the landfill were done in accordance with the NPDES monitoring and reporting requirements. Records of observations are kept at the Sunshine Canyon Landfill's Operating Records and are submitted to the RWQCB in the storm water table due annually by July 1st.

Sincerely,

Chris Coyle
General Manager
Sunshine Canyon Landfill

APPENDIX E

WASTE PLACEMENT AREAS



This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON FEBRUARY 13, 2020 AERIAL SURVEY BY COOPER AERIAL SURVEYS CO.

REV. NO.	DATE	DESCRIPTION	APPROVED BY

DATE OF ISSUE: AUGUST 2020
DESIGNED BY: C BARRETT
DRAWN BY: J AMAYA
CHECKED BY: K WELCHANS
APPROVED BY: C BARRETT

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REPUBLIC SERVICES
SUNSHINE CANYON LANDFILL
14747 SAN FERNANDO ROAD
SYLMAR, CA. 91342

SUNSHINE CANYON LANDFILL
SEMIANNUAL GROUNDWATER MONITORING REPORT
SYLMAR, CALIFORNIA

DISPOSAL AREAS - JAN. 2020 THRU JUNE 2020

DWG NO. 1

PROJECT NO. S020.1006

N:\SUNSHINE CANYON\S020.1006.00 - SEMIANNUAL GW MONITORING REPORT\DWG SETS\S020.1006-SCL-2020H1-SEMIANNUAL GW REPORT.DWG August 14, 2020 - 9:30 PM BY: GLA USER

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR JANUARY 2020

2020			Inbound Material																													Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage													Soil					
Month	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
01/02/2020	1	Thursday	6,465.39	296	2,392.44	209	724.54	93	13.16	8	9,595.53	606	27,195.18	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	570.82	33	570.82	33	0.00	0	0.00	0	10,166.35	639
01/03/2020		Friday	5,829.14	266	2,845.44	246	781.39	105	18.08	8	9,474.05	625	27,195.18	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	574.83	31	574.83	31	0.00	0	0.00	0	10,048.88	656
01/04/2020		Saturday	4,725.92	214	3,020.47	227	375.74	44	3.47	2	8,125.60	487	27,195.18	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	847.59	47	847.59	47	0.00	0	0.00	0	8,973.19	534
01/06/2020	2	Monday	2,440.60	115	2,169.39	205	749.58	93	112.69	10	5,472.26	423	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	672.91	50	672.91	50	0.00	0	0.00	0	6,145.17	473
01/07/2020		Tuesday	5,795.22	263	2,693.77	219	841.31	110	19.09	13	9,349.39	605	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,288.37	80	1,288.37	80	0.00	0	0.00	0	10,637.76	685
01/08/2020		Wednesday	5,945.54	271	2,323.03	198	764.48	110	7.86	6	9,040.91	585	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,006.59	61	1,006.59	61	0.00	0	0.00	0	10,047.50	646
01/09/2020		Thursday	5,868.65	268	2,440.65	213	1,025.95	118	3.42	3	9,338.67	602	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	767.57	73	767.57	73	0.00	0	0.00	0	10,106.24	675
01/10/2020		Friday	5,680.00	261	2,487.51	209	911.25	113	16.12	6	9,094.88	589	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	482.73	38	482.73	38	0.00	0	0.00	0	9,577.61	627
01/11/2020		Saturday	3,876.85	177	407.65	20	139.85	15	22.26	6	4,446.61	218	46,742.72	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	59.85	5	59.85	5	0.00	0	0.00	0	4,506.46	223
01/13/2020	3	Monday	5,478.06	248	2,925.34	241	991.57	118	18.24	7	9,413.21	614	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	735.08	48	735.08	48	0.00	0	0.00	0	10,148.29	662
01/14/2020		Tuesday	5,430.35	248	2,975.32	242	821.04	108	5.18	5	9,231.89	603	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	887.29	50	887.29	50	0.00	0	0.00	0	10,119.18	653
01/15/2020		Wednesday	4,924.51	227	2,138.46	185	624.65	85	23.64	9	7,711.26	506	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	640.64	39	640.64	39	0.00	0	0.00	0	8,351.90	545
01/16/2020		Thursday	4,736.59	216	2,162.91	205	696.60	92	18.24	7	7,614.34	520	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	285.32	17	285.32	17	0.00	0	0.00	0	7,899.66	537
01/17/2020		Friday	4,688.94	214	2,197.20	191	690.43	82	6.18	2	7,582.75	489	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	203.76	13	203.76	13	0.00	0	0.00	0	7,786.51	502
01/18/2020		Saturday	3,521.50	158	515.99	26	148.25	18	2.77	3	4,188.51	205	45,741.96	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	166.89	11	166.89	11	0.00	0	0.00	0	4,355.40	216
01/20/2020	4	Monday	5,467.81	247	2,509.15	223	737.51	88	3.04	3	8,717.51	561	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	558.73	30	558.73	30	0.00	0	0.00	0	9,276.24	591
01/21/2020		Tuesday	5,151.35	233	2,667.58	222	755.01	89	181.61	21	8,755.55	565	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	282.21	28	282.21	28	0.00	0	0.00	0	9,037.76	593
01/22/2020		Wednesday	5,501.78	250	2,120.05	186	662.26	89	14.47	9	8,298.56	534	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	405.62	23	405.62	23	0.00	0	0.00	0	8,704.18	557
01/23/2020		Thursday	5,289.38	239	2,161.32	208	740.90	96	5.89	4	8,197.49	547	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	617.06	35	617.06	35	0.00	0	0.00	0	8,814.55	582
01/24/2020		Friday	6,031.81	273	2,356.93	196	683.94	89	6.66	6	9,079.34	564	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	909.15	55	909.15	55	0.00	0	0.00	0	9,988.49	619
01/25/2020		Saturday	3,237.79	145	209.76	15	135.47	14	2.35	1	3,585.37	175	46,633.82	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	484.07	32	484.07	32	0.00	0	0.00	0	4,069.44	207
01/27/2020	5	Monday	4,775.54	216	2,747.26	240	766.60	92	7.46	8	8,296.86	556	40,779.61	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,189.87	63	1,189.87	63	0.00	0	0.00	0	9,486.73	619
01/28/2020		Tuesday	5,424.64	247	2,609.06	223	749.82	103	12.56	4	8,796.08	577	40,779.61	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,475.28	77	1,475.28	77	0.00	0	0.00	0	10,271.36	654
01/29/2020		Wednesday	5,222.41	243	2,019.70	184	615.83	84	11.01	5	7,868.95	516	40,779.61	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	628.83	42	628.83	42	0.00	0	0.00	0	8,497.78	558
01/30/2020		Thursday	5,374.93	247	1,798.83	191	659.95	89	5.15	3	7,838.86	530	40,779.61	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	669.33	42	669.33	42	0.00	0	0.00	0	8,508.19	572
01/31/2020		Friday	5,085.54	232	2,264.63	197	621.83	82	6.86	7	7,978.86	518	40,779.61	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	546.70	32	546.70	32	0.00	0	0.00	0	8,525.56	550
			131,970.24	**6,014**	**57,159.84**	**4,921**	**17,415.75**	**2,219**	**547.46**	**166**	**207,093.29**	**13,320**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16,957.09**	**1,055**	**16,957.09**	**1,055**	**0.00**	**0**	**0**	**0**	**224,050.38**	**14,375**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	
Disposal Tons	207,093
Separated for Beneficial Use/Salvage Tons	16,957
Soils Tons	0
	224,050

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR FEBRUARY 2020

2020			Inbound Material																													Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage													Soil					
Month	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
02/01/2020	5	Saturday	3,454.84	158	487.83	28	122.37	13	8.49	5	4,073.53	204	4,073.53	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	104.65	7	104.65	7	0.00	0	0.00	0	4,178.18	211
02/03/2020	6	Monday	4,574.23	209	2,619.37	234	599.20	75	0.00	0	7,792.80	518	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	356.55	25	356.55	25	0.00	0	0.00	0	8,149.35	543
02/04/2020		Tuesday	4,744.05	216	2,539.22	233	698.79	83	4.38	2	7,986.44	534	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	174.37	13	174.37	13	0.00	0	0.00	0	8,160.81	547
02/05/2020		Wednesday	4,864.26	224	1,954.80	174	723.03	102	11.85	10	7,553.94	510	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	245.36	19	245.36	19	0.00	0	0.00	0	7,799.30	529
02/06/2020		Thursday	5,003.33	230	2,033.35	184	632.91	89	3.94	6	7,673.53	509	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	412.30	26	412.30	26	0.00	0	0.00	0	8,085.83	535
02/07/2020		Friday	5,614.91	255	2,429.16	202	641.50	87	4.62	6	8,690.19	550	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	269.12	19	269.12	19	0.00	0	0.00	0	8,959.31	569
02/08/2020		Saturday	3,571.64	165	56.77	6	139.65	13	5.66	7	3,773.72	191	43,470.62	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	194.34	13	194.34	13	0.00	0	0.00	0	3,968.06	204
02/10/2020	7	Monday	3,197.23	148	2,204.78	205	686.77	83	0.00	0	6,088.78	436	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	498.33	35	498.33	35	0.00	0	0.00	0	6,587.11	471
02/11/2020		Tuesday	5,884.50	269	2,582.12	222	755.77	98	0.00	0	9,222.39	589	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	120.10	13	120.10	13	0.00	0	0.00	0	9,342.49	602
02/12/2020		Wednesday	5,725.16	262	1,973.97	175	752.92	101	13.21	11	8,465.26	549	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	345.33	25	345.33	25	0.00	0	0.00	0	8,810.59	574
02/13/2020		Thursday	5,402.84	246	1,941.60	183	726.48	103	6.34	4	8,077.26	536	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	416.97	25	416.97	25	0.00	0	0.00	0	8,494.23	561
02/14/2020		Friday	5,274.13	239	2,100.88	183	585.96	76	8.66	7	7,969.63	505	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	348.76	22	348.76	22	0.00	0	0.00	0	8,318.39	527
02/15/2020		Saturday	2,896.39	133	90.32	5	119.52	12	0.85	2	3,107.08	152	42,930.40	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	35.87	3	35.87	3	0.00	0	0.00	0	3,142.95	155
02/17/2020	8	Monday	5,559.94	250	2,263.95	203	743.70	97	10.14	6	8,577.73	556	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	199.84	13	199.84	13	0.00	0	0.00	0	8,777.57	569
02/18/2020		Tuesday	5,928.07	267	2,688.73	223	700.44	91	5.15	4	9,322.39	585	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	286.87	17	286.87	17	0.00	0	0.00	0	9,609.26	602
02/19/2020		Wednesday	5,447.44	248	2,437.19	200	722.25	99	19.48	5	8,626.36	552	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	792.12	48	792.12	48	0.00	0	0.00	0	9,418.48	600
02/20/2020		Thursday	5,436.75	251	1,880.25	182	660.28	90	8.42	5	7,985.70	528	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	407.50	20	407.50	20	0.00	0	0.00	0	8,393.20	548
02/21/2020		Friday	5,362.67	246	2,373.29	198	687.18	90	0.55	3	8,423.69	537	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	877.46	50	877.46	50	0.00	0	0.00	0	9,301.15	587
02/22/2020		Saturday	2,746.27	127	49.16	3	124.86	11	3.79	4	2,924.08	145	45,859.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	49.80	3	49.80	3	0.00	0	0.00	0	2,973.88	148
02/24/2020	9	Monday	5,106.21	236	2,665.80	227	627.59	74	10.63	9	8,410.23	546	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	610.09	44	610.09	44	0.00	0	0.00	0	9,020.32	590
02/25/2020		Tuesday	5,625.96	258	2,637.00	226	652.53	78	7.14	6	8,922.63	568	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	579.05	36	579.05	36	0.00	0	0.00	0	9,501.68	604
02/26/2020		Wednesday	5,432.20	250	2,160.36	188	722.70	92	4.88	4	8,320.14	534	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	464.31	31	464.31	31	0.00	0	0.00	0	8,784.45	565
02/27/2020		Thursday	4,822.05	222	2,010.11	192	674.84	95	9.68	5	7,516.68	514	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	466.30	29	466.30	29	0.00	0	0.00	0	7,982.98	543
02/28/2020		Friday	5,280.19	241	2,524.85	204	702.49	94	31.45	5	8,538.98	544	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	515.90	30	515.90	30	0.00	0	0.00	0	9,054.88	574
02/29/2020		Saturday	3,105.00	144	2.36	1	146.49	15	7.95	8	3,261.80	168	44,970.46	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	62.04	4	62.04	4	0.00	0	0.00	0	3,323.84	172
			120,060.26	**5,494**	**46,707.22**	**4,081**	**14,350.22**	**1,861**	**187.26**	**124**	**181,304.96**	**11,560**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8,833.33**	**570**	**8,833.33**	**570**	**0.00**	**0**	**0**	**0**	**190,138.29**	**12,130**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	
Disposal Tons	181,305
Separated for Beneficial Use/Salvage Tons	8,833
Soils Tons	0
	190,138

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR MARCH 2020

2020			Inbound Material																												Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage													Soil					
Month	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
03/02/2020	10	Monday	4,804.81	222	2,644.13	230	910.32	107	0.00	0	8,359.26	559	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	494.91	36	494.91	36	0.00	0	0.00	0	8,854.17	595
03/03/2020		Tuesday	6,063.06	274	2,749.24	234	885.26	106	1.25	1	9,698.81	615	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	773.03	55	773.03	55	0.00	0	0.00	0	10,471.84	670
03/04/2020		Wednesday	5,902.23	268	2,225.56	188	730.83	92	8.95	9	8,867.57	557	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	909.15	48	909.15	48	0.00	0	0.00	0	9,776.72	605
03/05/2020		Thursday	5,599.02	256	2,200.68	199	804.41	107	6.01	4	8,610.12	566	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	931.89	52	931.89	52	0.00	0	0.00	0	9,542.01	618
03/06/2020		Friday	5,240.77	237	2,421.17	196	848.31	103	218.98	15	8,729.23	551	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	498.70	30	498.70	30	0.00	0	0.00	0	9,227.93	581
03/07/2020		Saturday	3,158.94	143	53.48	4	138.10	15	7.54	3	3,358.06	165	47,623.05	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	434.13	21	434.13	21	0.00	0	0.00	0	3,792.19	186
03/09/2020	11	Monday	5,082.09	231	3,443.15	264	1,066.46	134	21.40	7	9,613.10	636	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	601.53	33	601.53	33	0.00	0	0.00	0	10,214.63	669
03/10/2020		Tuesday	5,493.71	248	2,778.16	224	795.99	97	0.00	0	9,067.86	569	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	9,067.86	569
03/11/2020		Wednesday	5,448.48	244	3,037.96	225	836.97	110	0.00	0	9,323.41	579	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	28.46	2	28.46	2	0.00	0	0.00	0	9,351.87	581
03/12/2020		Thursday	4,916.50	221	2,636.96	219	781.92	95	0.00	0	8,335.38	535	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	31.09	2	31.09	2	0.00	0	0.00	0	8,366.47	537
03/13/2020		Friday	4,967.69	223	2,803.22	222	812.76	84	0.00	0	8,583.67	529	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	8,583.67	529
03/14/2020		Saturday	3,179.87	144	91.48	5	103.32	10	0.00	0	3,374.67	159	48,298.09	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	3,374.67	159
03/16/2020	12	Monday	2,104.80	95	1,783.90	148	403.95	40	0.00	0	4,292.65	283	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	4,292.65	283
03/17/2020		Tuesday	6,193.97	274	2,311.67	221	749.85	81	0.00	0	9,255.49	576	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	9,255.49	576
03/18/2020		Wednesday	5,320.62	240	2,371.50	188	524.74	67	0.00	0	8,216.86	495	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	175.42	14	175.42	14	0.00	0	0.00	0	8,392.28	509
03/19/2020		Thursday	6,166.77	280	3,147.30	277	635.16	78	0.00	0	9,949.23	635	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	145.63	10	145.63	10	0.00	0	0.00	0	10,094.86	645
03/20/2020		Friday	5,313.05	243	3,722.07	304	628.55	84	0.00	0	9,663.67	631	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	36.01	2	36.01	2	0.00	0	0.00	0	9,699.68	633
03/21/2020		Saturday	1,911.25	89	194.08	11	114.31	10	0.00	0	2,219.64	110	43,597.54	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	34.68	2	34.68	2	0.00	0	0.00	0	2,254.32	112
03/23/2020	13	Monday	3,894.49	178	3,610.98	316	767.33	91	0.00	0	8,272.80	585	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	65.00	6	65.00	6	0.00	0	0.00	0	8,337.80	591
03/24/2020		Tuesday	5,066.26	230	3,198.55	278	708.87	81	0.00	0	8,973.68	589	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	260.61	21	260.61	21	0.00	0	0.00	0	9,234.29	610
03/25/2020		Wednesday	5,624.00	254	2,465.14	257	648.68	85	0.00	0	8,737.82	596	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	401.69	28	401.69	28	0.00	0	0.00	0	9,139.51	624
03/26/2020		Thursday	4,706.75	214	2,920.61	282	706.61	104	8.49	2	8,342.46	602	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	379.55	19	379.55	19	0.00	0	0.00	0	8,722.01	621
03/27/2020		Friday	4,538.18	205	4,173.23	349	636.17	89	19.07	4	9,366.65	647	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	418.09	26	418.09	26	0.00	0	0.00	0	9,784.74	673
03/28/2020		Saturday	1,914.14	87	47.19	3	119.95	14	0.00	0	2,081.28	104	45,774.69	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	431.65	24	431.65	24	0.00	0	0.00	0	2,512.93	128
03/30/2020	14	Monday	4,701.86	212	4,392.40	359	618.48	81	7.37	5	9,720.11	657	19,559.91	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	511.71	27	511.71	27	0.00	0	0.00	0	10,231.82	684
03/31/2020		Tuesday	5,472.32	249	3,633.81	325	733.67	97	0.00	0	9,839.80	671	19,559.91	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	449.22	25	449.22	25	0.00	0	0.00	0	10,289.02	696
			122,785.63	**5,561**	**65,057.62**	**5,528**	**16,710.97**	**2,062**	**299.06**	**50**	**204,853.28**	**13,201**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**8,012.15**	**483**	**8,012.15**	**483**	**0.00**	**0**	**0**	**0**	**212,865.43**	**13,684**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	
Disposal Tons	204,853
Separated for Beneficial Use/Salvage Tons	8,012
Soils Tons	0
	212,865

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR APRIL 2020

2020			Inbound Material																												Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage													Soil					
Month	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
04/01/2020	14	Wednesday	4,561.04	210	3,748.17	323	734.28	106	9.50	5	9,052.99	644	29,009.81	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	886.43	45	886.43	45	0.00	0	0.00	0	9,939.42	689
04/02/2020		Thursday	4,839.88	221	3,365.19	305	693.32	106	4.01	4	8,902.40	636	29,009.81	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	949.23	53	949.23	53	0.00	0	0.00	0	9,851.63	689
04/03/2020		Friday	4,751.86	218	3,960.24	348	756.00	110	4.23	4	9,472.33	680	29,009.81	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	920.87	47	920.87	47	0.00	0	0.00	0	10,393.20	727
04/04/2020		Saturday	1,455.36	67	22.63	2	103.68	11	0.42	1	1,582.09	81	29,009.81	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	554.47	24	554.47	24	0.00	0	0.00	0	2,136.56	105
04/06/2020	15	Monday	4,076.30	182	3,999.64	337	467.26	53	0.00	0	8,543.20	572	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	8,543.20	572
04/07/2020		Tuesday	4,703.17	212	3,716.83	324	643.39	74	0.00	0	9,063.39	610	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	118.37	8	118.37	8	0.00	0	0.00	0	9,181.76	618
04/08/2020		Wednesday	4,498.50	203	3,494.03	286	554.18	67	0.00	0	8,546.71	556	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	62.94	4	62.94	4	0.00	0	0.00	0	8,609.65	560
04/09/2020		Thursday	4,604.19	206	3,617.29	290	414.24	49	0.00	0	8,635.72	545	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	75.99	4	75.99	4	0.00	0	0.00	0	8,711.71	549
04/10/2020		Friday	4,645.30	209	4,012.96	325	359.17	40	0.00	0	9,017.43	574	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	134.55	7	134.55	7	0.00	0	0.00	0	9,151.98	581
04/11/2020		Saturday	1,491.81	69	355.88	19	75.98	9	0.00	0	1,923.67	97	45,730.12	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	29.07	2	29.07	2	0.00	0	0.00	0	1,952.74	99
04/13/2020	16	Monday	4,145.07	189	3,891.52	309	483.33	53	2.06	1	8,521.98	552	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	315.42	25	315.42	25	0.00	0	0.00	0	8,837.40	577
04/14/2020		Tuesday	5,381.21	251	3,846.01	323	721.05	79	3.80	4	9,952.07	657	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	279.69	17	279.69	17	0.00	0	0.00	0	10,231.76	674
04/15/2020		Wednesday	5,129.78	238	3,803.57	313	790.95	98	3.47	2	9,727.77	651	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,432.56	67	1,432.56	67	0.00	0	0.00	0	11,160.33	718
04/16/2020		Thursday	4,873.76	230	3,681.43	316	724.94	99	7.06	7	9,287.19	652	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	980.74	46	980.74	46	0.00	0	0.00	0	10,267.93	698
04/17/2020		Friday	4,917.69	231	4,204.17	344	512.21	64	4.07	5	9,638.14	644	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,237.12	60	1,237.12	60	0.00	0	0.00	0	10,875.26	704
04/18/2020		Saturday	1,426.98	70	215.35	11	95.25	11	8.14	5	1,745.72	97	48,872.87	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	319.56	15	319.56	15	0.00	0	0.00	0	2,065.28	112
04/20/2020	17	Monday	4,793.35	225	4,656.59	394	905.92	101	5.74	6	10,361.60	726	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,418.82	70	1,418.82	70	0.00	8	0.00	0	11,780.42	804
04/21/2020		Tuesday	5,384.76	252	4,263.47	366	841.86	97	2.59	3	10,492.68	718	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	2,262.95	108	2,262.95	108	0.00	0	0.00	0	12,755.63	826
04/22/2020		Wednesday	5,313.93	248	4,135.27	333	918.41	104	12.42	6	10,380.03	691	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,121.92	59	1,121.92	59	0.00	6	0.00	0	11,501.95	756
04/23/2020		Thursday	4,741.90	227	4,793.94	423	810.90	90	1.00	2	10,347.74	742	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	426.03	27	426.03	27	0.00	2	0.00	0	10,773.77	771
04/24/2020		Friday	4,309.49	203	5,238.93	456	706.87	87	1.83	3	10,257.12	749	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	216.24	14	216.24	14	0.00	0	0.00	0	10,473.36	763
04/25/2020		Saturday	1,433.11	69	557.52	29	127.95	11	4.09	6	2,122.67	115	53,961.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	23.50	2	23.50	2	0.00	0	0.00	0	2,146.17	117
04/27/2020	18	Monday	4,644.73	215	5,605.01	465	639.89	66	5.72	4	10,895.35	750	43,790.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	421.33	22	421.33	22	0.00	0	0.00	0	11,316.68	772
04/28/2020		Tuesday	5,043.54	236	5,378.47	452	554.91	61	2.89	4	10,979.81	753	43,790.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	420.26	23	420.26	23	0.00	0	0.00	0	11,400.07	776
04/29/2020		Wednesday	5,163.85	240	5,308.25	442	845.40	96	3.72	6	11,321.22	784	43,790.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	465.89	30	465.89	30	0.00	0	0.00	0	11,787.11	814
04/30/2020		Thursday	4,688.06	222	5,292.35	455	595.57	67	18.48	9	10,594.46	753	43,790.84	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.44	16	249.44	16	0.00	0	0.00	0	10,843.90	769
			111,018.62	**5,143**	**95,164.71**	**7,990**	**15,076.91**	**1,809**	**105.24**	**87**	**221,365.48**	**15,029**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**15,323.39**	**795**	**15,323.39**	**795**	**0.00**	**16**	**0**	**0**	**236,688.87**	**15,840**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	
Disposal Tons	221,365
Separated for Beneficial Use/Salvage Tons	15,323
Soils Tons	0
	236,689

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR MAY 2020

2020			Inbound Material																													Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage													Soil					
May	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
05/01/2020	18	Friday	4,817.13	227	5,490.86	475	648.79	77	6.96	6	10,963.74	785	14,128.07	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	10,963.74	785
05/02/2020		Saturday	1,746.28	81	1,286.01	60	125.87	11	6.17	8	3,164.33	160	14,128.07	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	116.62	7	116.62	7	0.00	0	0.00	0	3,280.95	167
05/04/2020	19	Monday	3,805.84	178	5,751.97	506	819.57	96	8.96	6	10,386.34	786	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	282.86	19	282.86	19	0.00	0	0.00	0	10,669.20	805
05/05/2020		Tuesday	5,056.05	236	5,229.78	455	860.51	97	14.48	7	11,160.82	795	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.94	16	249.94	16	0.00	0	0.00	0	11,410.76	811
05/06/2020		Wednesday	5,528.25	257	5,468.33	469	721.48	92	6.72	3	11,724.78	821	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.47	17	249.47	17	0.00	0	0.00	0	11,974.25	838
05/07/2020		Thursday	5,531.93	259	5,364.31	476	702.40	89	10.11	5	11,608.75	829	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.74	17	249.74	17	0.00	0	0.00	0	11,858.49	846
05/08/2020		Friday	5,369.51	250	5,477.12	491	730.37	83	2.62	2	11,579.62	826	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	248.62	18	248.62	18	0.00	0	0.00	0	11,828.24	844
05/09/2020		Saturday	1,726.74	81	1,035.31	51	185.11	12	3.48	4	2,950.64	148	59,410.95	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	58.05	4	58.05	4	0.00	0	0.00	0	3,008.69	152
05/11/2020	20	Monday	5,218.07	244	5,520.90	496	668.65	76	20.90	7	11,428.52	823	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	248.35	17	248.35	17	0.00	0	0.00	0	11,676.87	840
05/12/2020		Tuesday	5,293.21	244	5,022.17	458	883.79	93	5.25	6	11,204.42	801	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.37	17	249.37	17	0.00	0	0.00	0	11,453.79	818
05/13/2020		Wednesday	5,231.83	242	4,893.64	441	739.16	85	18.04	7	10,882.67	775	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	186.82	13	186.82	13	0.00	0	0.00	0	11,069.49	788
05/14/2020		Thursday	4,711.12	219	5,020.70	452	514.10	67	4.93	4	10,250.85	742	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	246.22	14	246.22	14	0.00	0	0.00	0	10,497.07	756
05/15/2020		Friday	4,794.87	220	5,082.57	453	478.01	64	9.23	10	10,364.68	747	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	220.84	16	220.84	16	0.00	0	0.00	0	10,585.52	763
05/16/2020		Saturday	1,836.20	85	839.05	45	105.81	10	4.29	6	2,785.35	146	56,916.49	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	239.61	17	239.61	17	0.00	0	0.00	0	3,024.96	163
05/18/2020	21	Monday	1,268.28	59	2,323.08	239	108.73	17	0.00	0	3,700.09	315	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	63.92	4	63.92	4	0.00	0	0.00	0	3,764.01	319
05/19/2020		Tuesday	5,823.71	268	3,928.13	308	497.51	59	0.00	0	10,249.35	635	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	227.32	13	227.32	13	0.00	0	0.00	0	10,476.67	648
05/20/2020		Wednesday	6,272.40	288	4,467.47	320	558.45	77	3.26	3	11,301.58	688	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.20	15	249.20	15	0.00	0	0.00	0	11,550.78	703
05/21/2020		Thursday	5,654.07	258	3,951.02	312	578.61	73	15.23	8	10,198.93	651	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	154.06	9	154.06	9	0.00	0	0.00	0	10,352.99	660
05/22/2020		Friday	5,391.60	250	4,351.07	330	604.08	85	4.52	5	10,351.27	670	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	249.98	17	249.98	17	0.00	0	0.00	0	10,601.25	687
05/23/2020		Saturday	2,075.60	98	353.88	16	96.16	11	2.57	2	2,528.21	127	48,329.43	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	185.72	12	185.72	12	0.00	0	0.00	0	2,713.93	139
05/25/2020	22	Monday	1,973.02	92	5,008.08	373	654.33	68	7.94	5	7,643.37	538	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	44.69	3	44.69	3	0.00	0	0.00	0	7,688.06	541
05/26/2020		Tuesday	4,865.64	224	4,226.60	318	643.04	84	5.91	6	9,741.19	632	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	143.79	9	143.79	9	0.00	0	0.00	0	9,884.98	641
05/27/2020		Wednesday	5,942.08	271	3,347.92	253	627.84	85	10.66	8	9,928.50	617	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	198.82	14	198.82	14	0.00	0	0.00	0	10,127.32	631
05/28/2020		Thursday	5,264.04	241	3,632.93	287	611.88	81	15.10	8	9,523.95	617	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	227.43	16	227.43	16	0.00	0	0.00	0	9,751.38	633
05/29/2020		Friday	5,856.87	268	3,821.17	292	614.37	82	7.34	8	10,299.75	650	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	151.83	9	151.83	9	0.00	0	0.00	0	10,451.58	659
05/30/2020		Saturday	3,395.66	154	677.40	30	160.34	19	14.28	4	4,247.68	207	51,384.44	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	63.76	4	63.76	4	0.00	0	0.00	0	4,311.44	211
			114,450.00	**5,294**	**101,571.47**	**8,406**	**13,938.96**	**1,693**	**208.95**	**138**	**230,169.38**	**15,531**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4,807.03**	**317**	**4,807.03**	**317**	**0.00**	**0**	**0**	**0**	**234,976.41**	**15,848**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	
Disposal Tons	230,169
Separated for Beneficial Use/Salvage Tons	4,807
Soils Tons	0
	234,976

Sunshine Canyon Landfill - TONNAGE / LOAD REPORT FOR JUNE 2020

2020			Inbound Material																													Total Daily Inbound	
			Disposal											Separated for Beneficial Use/Salvage														Soil					
Month	Week #	Day	Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Green Waste	Lds	MRF Fines	Lds	Mixed Recyclables	Lds	TASW	Lds	C&D	Lds	Road Material	Lds	Total tons	Total loads	Contaminated Soil	Lds	Clean Soil	Lds	Tons	Loads
06/01/2020	23	Monday	6,075.35	279	3,728.60	288	625.91	77	4.43	6	10,434.29	650	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	100.09	6	100.09	6	0.00	0	0.00	0	10,534.38	656
06/02/2020		Tuesday	6,153.12	284	3,668.82	275	627.01	78	16.44	5	10,465.39	642	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	242.24	16	242.24	16	0.00	0	0.00	0	10,707.63	658
06/03/2020		Wednesday	5,643.35	261	3,587.51	252	497.32	70	1.68	4	9,729.86	587	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,001.22	60	1,001.22	60	0.00	0	0.00	0	10,731.08	647
06/04/2020		Thursday	5,129.08	237	3,911.05	301	628.02	82	14.43	5	9,682.58	625	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	1,126.07	58	1,126.07	58	0.00	0	0.00	0	10,808.65	683
06/05/2020		Friday	4,703.08	217	3,983.51	286	589.11	72	8.21	8	9,283.91	583	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	568.30	29	568.30	29	0.00	0	0.00	0	9,852.21	612
06/06/2020		Saturday	2,047.27	95	619.38	30	140.38	16	5.82	4	2,812.85	145	52,408.88	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	2,812.85	145
06/08/2020	24	Monday	4,600.20	200	3,382.91	273	645.67	76	23.86	9	8,652.64	558	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	389.64	30	389.64	30	0.00	0	0.00	0	9,042.28	588
06/09/2020		Tuesday	5,544.13	260	3,762.09	286	713.38	85	32.84	10	10,052.44	641	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	393.01	25	393.01	25	0.00	0	0.00	0	10,445.45	666
06/10/2020		Wednesday	5,252.46	246	3,550.16	256	653.14	82	27.44	10	9,483.20	594	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	46.55	4	46.55	4	0.00	0	0.00	0	9,529.75	598
06/11/2020		Thursday	5,024.95	234	3,325.08	263	692.89	80	8.69	10	9,051.61	587	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	369.82	26	369.82	26	0.00	0	0.00	0	9,421.43	613
06/12/2020		Friday	4,907.01	229	3,555.31	262	591.36	72	4.25	6	9,057.93	569	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	421.04	29	421.04	29	0.00	0	0.00	0	9,478.97	598
06/13/2020		Saturday	1,783.06	84	229.03	18	101.72	10	3.22	4	2,117.03	116	48,414.85	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	312.42	16	312.42	16	0.00	0	0.00	0	2,429.45	132
06/15/2020	25	Monday	4,650.22	214	3,623.58	277	637.44	70	20.39	12	8,931.63	573	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	549.60	38	549.60	38	0.00	0	0.00	0	9,481.23	611
06/16/2020		Tuesday	5,503.10	255	3,770.39	286	709.04	91	9.86	11	9,992.39	643	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	498.12	36	498.12	36	0.00	0	0.00	0	10,490.51	679
06/17/2020		Wednesday	5,329.62	246	2,962.35	227	684.87	86	15.59	7	8,992.43	566	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	482.17	27	482.17	27	0.00	0	0.00	0	9,474.60	593
06/18/2020		Thursday	5,094.89	235	3,576.81	268	672.17	80	25.98	9	9,369.85	592	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	387.16	25	387.16	25	0.00	0	0.00	0	9,757.01	617
06/19/2020		Friday	5,108.75	236	3,794.84	272	738.70	81	20.11	9	9,662.40	598	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	234.46	18	234.46	18	0.00	0	0.00	0	9,896.86	616
06/20/2020		Saturday	1,777.37	82	319.50	25	183.57	15	5.23	6	2,285.67	128	49,234.37	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	235.97	14	235.97	14	0.00	0	0.00	0	2,521.64	142
06/22/2020	26	Monday	4,553.36	210	4,010.04	302	655.86	70	6.74	5	9,226.00	587	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	364.67	29	364.67	29	0.00	0	0.00	0	9,590.67	616
06/23/2020		Tuesday	5,189.33	239	3,489.08	263	673.93	79	15.23	6	9,367.57	587	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	293.61	22	293.61	22	0.00	0	0.00	0	9,661.18	609
06/24/2020		Wednesday	5,332.28	246	3,306.11	233	598.41	71	17.67	13	9,254.47	563	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	379.74	21	379.74	21	0.00	0	0.00	0	9,634.21	584
06/25/2020		Thursday	4,928.30	229	3,374.41	265	678.52	76	2.35	2	8,983.58	572	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	340.24	17	340.24	17	0.00	0	0.00	0	9,323.82	589
06/26/2020		Friday	4,830.02	223	3,516.92	267	573.28	64	6.00	7	8,926.22	561	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	220.26	14	220.26	14	0.00	0	0.00	0	9,146.48	575
06/27/2020		Saturday	1,653.80	77	139.38	7	254.68	19	0.95	1	2,048.81	104	47,806.65	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	15.98	1	15.98	1	0.00	0	0.00	0	2,064.79	105
06/29/2020	27	Monday	4,833.97	224	4,123.60	298	465.98	58	14.85	14	9,438.40	594	19,545.24	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	541.89	37	541.89	37	0.00	0	0.00	0	9,980.29	631
06/30/2020		Tuesday	6,010.31	276	3,490.55	267	594.57	78	11.41	9	10,106.84	630	19,545.24	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	532.70	30	532.70	30	0.00	0	0.00	0	10,639.54	660
			121,658.38	**5,618**	**80,801.01**	**6,047**	**14,626.93**	**1,738**	**323.67**	**192**	**217,409.99**	**13,595**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10,046.97**	**628**	**10,046.97**	**628**	**0.00**	**0**	**0**	**0**	**227,456.96**	**14,223**

Monthly Totals

Water Used for Dust Control & Irrigation gallons	0
Disposal Tons	217,410
Separated for Beneficial Use/Salvage Tons	10,047
Soils Tons	0
	227,457

APPENDIX F

WASTE ACCEPTANCE REPORTS

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123140862	**Expiration Date** 4/28/2023	
I. Decision Request:	☐ **Initial** ☑ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: City of Long Beach - Marine Maintenance			
Generator Site Address: Alamitos Bay and Long Beach Shoreline Marinas			
City: Long Beach	**County:**	**State:** CA	**Zip:**
Name of Waste: Weathered Wood			
Estimated Annual Volume: 300 Cubic Yards			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 4/30/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 4/30/2020

Special Waste Profile - Recertification

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123140862

Sales Rep #:

I. Generator Information

Generator Name: City of Long Beach-Maintenance, Alamitos Bay & Shoreline Marinas

Generator Site Address: 6204 E. 2nd St

City: Long Beach County: Los Angeles State: California Zip: 90803

State ID/Reg No: State Approval/Waste Code: NAICS:

Generator Mailing Address ☐ (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Eric Woodson EW 4/30/20 Email:

Phone Number: 562-570-1582 EW 4/30/20 Ext: Fax Number:

II. Waste Stream Information

Name of Waste: Weathered Wood Wastes

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   - a Change of a raw material used in the waste generating process.
   - b Change in the waste generating process itself.
   - c Change in a physical characteristic of the waste.
   - d New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.

2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analyt cal may be requ red

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ Yes ☐ No

Sample Date: Sample ID Numbers:

Special Waste Profile - Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Eric Woodson	Superintendent	City of Long Beach Marine Maintenance
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		4/28/2020
Authorized Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123141423	**Expiration Date** 1/24/2023	
I. Decision Request:	☐ Initial ☑ Recertification ☐ Change		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Roofmaster Products Inc

Generator Site Address: 750 Montererey Pass Rd

City: Monterey Park	**County:**	**State:** CA	**Zip:**

Name of Waste: Waste Roofing Asphalt

Estimated Annual Volume: 70 Drums

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Suzanne Glass **Name (Printed):** Suzanne Glass

Date: 1/27/2020

III. Facility Decision: ☑ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Cagle

Date: 1/27/2020

Special Waste Profile - Recertification

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123141423

Sales Rep #:

I. Generator Information

Generator Name: Roofmaster Products

Generator Site Address: 750 Monterey Pass Rd

City: Monterey Park County: Los Angeles State: California Zip: 91754

State ID/Reg No: State Approval/Waste Code: 088393160 NAICS: 333120

Generator Mailing Address ☐ (if different) PO Box 63309

City: Los Angeles County: Los Angeles State: California Zip: 90063

Generator Contact Name: James Yundt Email: james@roofmaster.com

Phone Number: 323-261-5122 Ext: Fax Number: 323-261-8799

II. Waste Stream Information

Name of Waste: Waste Roofing Asphalt

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.

2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile – Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

James Yundt	Vice President	Roofmaster Products
Authorized Representative Name (Printed)	Title (Printed)	Company Name

	01/27/2020
Authorized Representative Signature	Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231414575	**Expiration Date** 6/22/2023	
I. Decision Request:	☐ **Initial** ☐ **Recertification** ☑ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Grifols Biologicals Inc			
Generator Site Address: 5555 Valley Blvd			
City: Los Angeles	**County:**	**State:** CA	**Zip:**
Name of Waste: Filter Press Waste			
Estimated Annual Volume: 700 Tons			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Per the Special Waste Profile - Change form dated 4/10/2020, the generator has increased the estimated volume to 700 tons.

Special Waste Analyst Signature: **Name (Printed):** KEITH DIAMANTI

Date: 4/10/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Coyle

Date: 4/10/2020

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: Grifols Biologicals

Name of Waste: Filter

Waste Profile #: 51231414575

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

Increase in annual quality; was 150 ton/yr, will be 700 ton/yr

☑ Volume Increase By: 550 ton/yr

Is the analysis originally submitted with the Profile representative of the volume increase? ☑ Yes ☐ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Brandon Eastman	EHS	Grifols Biologicals
Authorized Representative Name (Printed)	Title (Printed)	Company Name

	10APR20
Representative Signature	Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231414575	**Expiration Date** 6/22/2023	
I. Decision Request:	☐ **Initial** ☑ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Grifols Biologicals Inc			
Generator Site Address: 5555 Valley Blvd			
City: Los Angeles	**County:**	**State:** CA	**Zip:**
Name of Waste: Filter Press Waste			
Estimated Annual Volume: 150 Tons			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 4/7/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** Chris Coyle

Date: 4/7/2020

Special Waste Profile - Recertification

REPUBLIC SERVICES

Disposal Facility: 5123 SUNSHINE CANYON --Select Facility-- 06APR20

Waste Profile #: 51231414575

Sales Rep #:

I. Generator Information

Generator Name: Grifols Biologicals

Generator Site Address: 5555 Valley Blvd

City: Los Angeles County: Los Angeles State: California Zip: 90032

State ID/Reg No: State Approval/Waste Code: NAICS: 325412

Generator Mailing Address ☐ (if different) same

City: County: State: --Select State-- Zip:

Generator Contact Name: Brandon Eastman Email: brandon.eastman@grifols.com

Phone Number: 323-227-7578 Ext: Fax Number:

II. Waste Stream Information

Name of Waste: Filtercake

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.

2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date: Sample ID Numbers:

Special Waste Profile - Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Brandon Eastman		Grifols Biologicals
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		02APR20
Authorized Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123162417	**Expiration Date** 2/12/2022	
I. Decision Request:	☐ **Initial** ☐ **Recertification** ☑ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: City of Los Angeles Police Department, Property Division			
Generator Site Address: 180 North Los Angeles Street, RM BP-18			
City: Los Angeles	**County:**	**State:** CA	**Zip:**
Name of Waste: Narcotics - Marijuana Contained in recycled Carboard Boxes			
Estimated Annual Volume: 510 Tons			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Per the Special Waste Profile Change Form dated 12 FEBRUARY 2020, the generator has increased the ESTIMATED VOLUME for disposal by 500 TONS.

TOTAL ESTIMATED VOLUME approved for disposal is 510 TONS.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/12/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Coyle

Date: 2/12/2020

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: City of Los Angeles Police Department - Evidence and Property Management Division

Name of Waste: Narcotics - Marijuana contained in recycled cardboard boxes Waste Profile #: 5123162417

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

Unusual large volume seizure

☑ Volume Increase By: 500 Tons

Is the analysis originally submitted with the Profile representative of the volume increase? ☑ Yes ☐ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date: Sample ID Numbers:

REPUBLIC SERVICES

IV. Certification

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Sandra M. Russell	Commanding Officer	City of Los Angeles Police Department - EPMD
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Sandra M. Russell		02/12/2020
Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231914465	**Expiration Date** 9/23/2020	
I. Decision Request:	☐ **Initial** ☐ **Recertification** ☑ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: CHEF MERITO INC			
Generator Site Address: 7915 SEPULVEDA BLVD			
City: VAN NUYS	**County:**	**State:** CA	**Zip:**
Name of Waste: SEASONING			
Estimated Annual Volume: 72,450 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Per the Special Waste Profile - Change form dated 4/20/2020, the generator has increased the estimated volume for disposal by 5,000 pounds. Total volume approved for disposal is now 72,450 pounds

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 4/21/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** Chris Coyle

Date: 4/21/2020

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: Chef Merito, Inc.

Name of Waste: Spices & Seasonings

Waste Profile #: 51231914465

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

We have more spices that have expired that need to be disposed of.

☑ Volume Increase By: 5000 Lbs.

Is the analysis originally submitted with the Profile representative of the volume increase? ☑ Yes ☐ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☐ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Nathaly A.	QA/ Safety MGR	Chef Merito, Inc.
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		04/20/2020
Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231914465	**Expiration Date** 9/23/2020	
I. Decision Request:	☐ **Initial** ☐ **Recertification** ☑ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: CHEF MERITO INC			
Generator Site Address: 7915 SEPULVEDA BLVD			
City: VAN NUYS	**County:**	**State:** CA	**Zip:**
Name of Waste: SEASONING			
Estimated Annual Volume: 572,450 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Per the Special Waste Profile - Change form dated 5/7/2020, the generator has increased the estimated volume for disposal by 500,000 pounds. Total volume approved for disposal is now 572,450 pounds.

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 5/7/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** Chris Cuyle

Date: 5/7/2020

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: Chef Merito, Inc.

Name of Waste: Spice & Seasonings

Waste Profile #: 51231914465

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

We have more spices that have expired that need to be disposed of.

☑ Volume Increase By: 500,000 Lbs.

Is the analysis originally submitted with the Profile representative of the volume increase? ☐ Yes ☐ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☐ Other:

III. Representative Sample Certification

☐ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Nathaly A.	QA/ Safety MGR	Chef Merito, INC.
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		05/07/2020
Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231916833	**Expiration Date** 10/31/2020	
I. Decision Request:	☐ **Initial** ☐ **Recertification** ☑ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: T FRESH COMPANY DBA YES PRODUCE			
Generator Site Address: 150 N WILLOW AVE			
City: CITY OF INDUSTRY	**County:**	**State:** CA	**Zip:**
Name of Waste: HAWAIIAN TARO STEM			
Estimated Annual Volume: 17,450 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

FOOD WASTE: This waste must be buried immediately upon receipt at the landfill.

Per the Special Waste Profile Change form dated 17 FEBRUARY 2020, the generator is adding TARO STEMS as a Characteristic Component of the profiled waste; also, the generator has increased the ESTIMATED VOLUME for disposal by 15,000 POUNDS.

TOTAL ESTIMATED VOLUME approved for disposal is 17,450 POUNDS.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/18/2020

III. Facility Decision: ☒ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** CHRIS COYLE

Date: 2/18/2020

Special Waste Profile - Change

REPUBLIC SERVICES

I. Generator Information

This form may be used to request changes to an existing Special Waste Profile

Generator Name: T Fresh Company dba Yes Produce

Name of Waste: Hawaiian Taro Stem

Waste Profile #: 51231916833

II. Purpose of Change

Description of change requested and reason for change
(provide detailed explanation of why the change is requested following the appropriate checked circle below).

Volume Increase and another load of contaminated material.

☑ Volume Increase By: 15000 Pounds

Is the analysis originally submitted with the Profile representative of the volume increase? ☐ Yes ☑ No ***If no, complete Section III below***

☐ Extend Expiration Date:

☐ Change or Add Landfill:

☐ Add Additional Laboratory Reports: ***Complete Representative Sample Certification; Section III below***

☐ Add MSDS:

☐ Generator Name Change:

☑ Other: Request taro stems to be added.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ Yes ☐ No

Sample Date:

Sample ID Numbers:

Special Waste Profile - Change

REPUBLIC SERVICES

IV. Certification

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

Sho Chung	Accounting	T Fresh Company
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		2/17/2020
Representative Signature		Date

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123200304	**Expiration Date** 1/8/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: DAAKS INTERNATIONAL INC			
Generator Site Address: 1011 LONG BEACH AVE			
City: LOS ANGELES	**County:**	**State:** CA	**Zip:**
Name of Waste: MALONGAI LEAVES			
Estimated Annual Volume: 200 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 1/8/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):**

Date: 1/8/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 0304

Sales Rep #:

I. Generator Information

Generator Name: Daaks International Inc.

Generator Site Address: 1011 Long Beach Avenue

City: Los Angeles County: Los Angeles State: California Zip: 90021

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different) PO BOX# 34028

City: Granada Hills County: Los Angeles State: California Zip: 91394

Generator Contact Name: Kevin Tanaka Email: kevin@daaksinc.com

Phone Number: (818) 461-4350 Ext: Fax Number: (213) 402-3514

II. Billing Information

Bill To: Daaks International Inc. Contact Name: Kevin Tanaka

Billing Address: PO BOX 34028 Email: daaksinc@gmail.com

City: Granada Hills State: California Zip: 91934 Phone: (213) 612-3225

III. Waste Stream Information

Name of Waste: Malongai Leaves

Process Generating Waste: 20 cartons of Malongai Leaves must be dumped

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bagged

Estimated Volume: 200 Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Malongai Leaves	100
2.	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Green	Odorless	☐ Yes ☑ No	100	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? ☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? ☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? ☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? ☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. ☐ Yes ☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? ☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31? ☐ Yes ☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. ☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture? ☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products? ☐ Yes ☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? ☐ Yes ☑ No

4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? ☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

Special Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Kevin Tanaka	Manager	Daaks International Inc.
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		01/08/2020
Representative Signature		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 0304

Generator Billing Information		Republic Waste Location (Company)
Name:	DAAKS INTERNATIONAL INC (ACCT 321 CASH)	SUNSHINE CANYON LANDFILL (5123)
Address:	PO BOX 34028	14747 SAN FERNANDO RD
		SYLMAR, CA 91342
City:	GRANADA HILLS	818.362.2141
State:	CA Zip: 91394	
Phone:	818.461.4350 Fax:	
Contact:	KEVIN TANAKA	

Project: FOOD PRODUCTS—MALONGAI LEAVES **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: 1011 LONG BEACH AVE, LOS ANGELES

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. **(A) Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
FOOD PRODUCTS	LANDFILL		TAXES, ERF, FRF APPLY	N/A
N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL RECOVERY FEE (ERF) LOAD | FUEL RECOVER FEE (FRF) CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Additional Information:

PROFILE EXPIRES 01/08/2021 | MATERIAL CODE XD-FOOD WASTE | EAV 200 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 200 POUNDS Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 01/09/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR	REPUBLIC SERVICES/COMPANY
	Edward Antolin
SIGNATURE (AUTHORIZED REPRESENTATIVE)	SIGNATURE (AUTHORIZED REPRESENTATIVE)
KEVIN TANAKA / MANAGER	EDWARD ANTOLIN MESE
NAME AND TITLE (PLEASE PRINT)	NAME AND TITLE (PLEASE PRINT)
1/9/2020	1/9/2020
DATE	DATE

Terms and Conditions of Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin December 2018

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123201376	**Expiration Date** 1/29/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: ASA CONSTRUCTION			
Generator Site Address: 5522 ANGELUS AVE			
City: SAN GABRIEL	**County:**	**State:** CA	**Zip:**
Name of Waste: WEATHERED WOOD			
Estimated Annual Volume: 1 Tons			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 1/30/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** Chris Coyle

Date: 1/30/2020

Express Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile # 5123 20 1376

Sales Rep #

I. Generator Information

Generator Name: ASA Construction

Generator Site Address: 5522 Angelus Ave.

City: San Gabriel County: Los Angeles State: California Zip: 91776

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Simeun Radojevic Email: Simeun@asaconstruction.org

Phone Number: 6264827097 Ext: Fax Number: 6262864608

II. Billing Information

Bill To: Simeun Radojevic Contact Name: Simeun Radojevic

Billing Address: 5522 Angelus Ave. Email: Simeun@asaconstruction.org

City: San Gabriel State: California Zip: 91776 Phone: 6264827097

III. Waste Stream Information

Name of Waste: ☑ Weathered Wood ☐ RCRA Empty Containers ☐ Treated Medical Waste ☐ Animal Carcass (non-infectious) ☐ Friable Asbestos ☐ Nonfriable Asbestos ☐ Tires ☐ Meth Contaminated Debris

Has a sample of this waste been taken? ☐ Yes ☑ No

Process Generating Waste: Removing landscaping timbers.

Method of Shipment: Bulk Complete if "other"

Frequency: One-time Event (single project)

Estimated Annual Volume: 1 Volume Type: Tons

Color: Brown Odor: None

REPUBLIC SERVICES

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process

Simeun Radojevic	Owner	ASA Construction
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Authorized Representative Signature		1/29/20 Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 1376

Generator Billing Information

Name: ASA CONSTRUCTION (CASH ACCT #321)
Address: 5522 ANGELUS AVE
City: SAN GABRIEL
State: CA Zip: 91776
Phone: 626.482.7097 Fax:
Contact: SIMEUN RADJEVIC

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)
14747 SAN FERNANDO ROAD
SYLMAR, CA 91342
818.833.6500

Project: 5522 ANGELUS AVE, SAN GABRIEL

County and State of Origin: LOS ANGELES, CA

Additional Information:

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
WEATHERED WOOD	LANDFILL		HANDLING FEE | ERF AND FRF APPLY	N/A

Additional Information: ENVIRONMENTAL RECOVERY FEE (ERF) LOAD | FUEL RECOVERY FEE (FRF) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

PROFILE EXPIRES 01/29/2021 | MATERIAL CODE VS-SW-TIMBER/TREATED/OLD | EAV 1 TON

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 1 TON Without Prior Approval of Company.

(B) **Incorporation by Reference**. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 01/30/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

SIMEUN RADOJEVIC

NAME AND TITLE (PLEASE PRINT)

1/30/20

DATE

REPUBLIC SERVICES/COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN

NAME AND TITLE (PLEASE PRINT)

1/31/2020

DATE

Terms and Conditions of Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, nders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on delivenes of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123201500	**Expiration Date** 1/31/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: T FRESH COMPANY DBA YES PRODUCE			
Generator Site Address: 150 N WILLOW AVE			
City: CITY OF INDUSTRY	**County:**	**State:** CA	**Zip:**
Name of Waste: HAWAIIAN GALANGA			
Estimated Annual Volume: 5,000 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

FOOD WASTE: This waste must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/3/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Coyle

Date: 2/3/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 1500

Sales Rep #:

I. Generator Information

Generator Name: T Fresh Company dba Yes Produce

Generator Site Address: 150 N. Willow Ave.

City: City of Industry County: Los Angeles State: California Zip: 91746

State ID/Reg No: 272144308 State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Sho Chung Email: tfresh@yesproduce.com

Phone Number: 6269682088 Ext: Fax Number: 6269688896

II. Billing Information

Bill To: Ditto Contact Name:

Billing Address: Email:

City: State: --Select State-- Zip: Phone:

III. Waste Stream Information

Name of Waste: Hawaiian Galanga

Process Generating Waste: 15 cartons of Hawaiian Galanga infested with pests.

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 5,000 Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Galanga	95%
2. Carton box	5%
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Brown	None	☑ Yes ☐ No	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? ☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? ☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? ☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? ☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. ☐ Yes ☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? ☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31? ☐ Yes ☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. ☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture? ☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products? ☐ Yes ☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? ☐ Yes ☑ No

4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? ☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Sho Chung	Accounting	T Fresh Company
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		1/31/2020
Representative Signature		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 1500

Generator Billing Information

Name: T FRESH CO DBA YES PRODUCE (ACCT 321 CASH)
Address: 150 N WILLOW AVE
City: CITY OF INDUSTRY
State: CA Zip: 91746
Phone: 626.968.2088 Fax:
Contact: SHO CHUNG

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)
14747 SAN FERNANDO RD
SYLMAR, CA 91342
818.362.2141

Project: FOOD PRODUCTS—HAWAIIAN GALANGA **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. **(A) Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
FOOD PRODUCTS	LANDFILL		TAXES, ERF, FRF APPLY	N/A
N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL RECOVERY FEE (ERF) LOAD | FUEL RECOVER FEE (FRF) CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Additional Information:

PROFILE EXPIRES 01/31/2021 | MATERIAL CODE XD-FOOD WASTE | EAV 5000 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 5000 POUNDS Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 02/03/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Sho Chung

NAME AND TITLE (PLEASE PRINT)

2/03/2020

DATE

REPUBLIC SERVICES/COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN

NAME AND TITLE (PLEASE PRINT)

2/4/2020

DATE

Terms and Conditions of Special Waste Service Agreement

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Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverag specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobil Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall nc thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice ha been given to Company. With the exception of workers' compensation, Company shall be shown as additiona insureds under all of the insurance policies required by this Section 13. The policies required by this Section 1 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waiv their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall b liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable contro including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes i law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natura resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in th preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authorit takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit th disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from deliverin Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminat Generator's access to the Facility immediately, without prior notice and without any additional liabilities between th parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle an labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whol or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company provided, however, that the Company may without any such prior written consent, assign its rights and/or obligation under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new informatior or information not previously provided to the Company by Generator which may affect the acceptability of the wast by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator' continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that th waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sampl the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of thi Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists a to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver c any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision c obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of thi Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law c regulation any information (including any technical information, experience or date) regarding the Company' plans, programs, plants, processes, products, costs, equipment or operations which may come within th knowledge of the Generator or its employees in the performance of this Agreement, without in each instanc securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal c unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to suc term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any pric agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order c other response by Generator which is in addition to or different from the provisions of this Agreement shall b deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, i compliance with and will perform its obligations pursuant to all applicable laws and regulations and sha indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is nc an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates c subcontractors, provided that Company shall remain responsible for the performance of all such services an obligations in accordance with this Agreement

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been give upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the addres herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breac by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplie by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that i the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, suc amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does nc constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under thi paragraph shall be in addition to amounts already owing under this Agreement.

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123201720	**Expiration Date** 2/5/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: SOUTHERN CALIFORNIA EDISON

Generator Site Address: 7314 SCOUT AVE

City: BELL GARDENS	**County:**	**State:** CA	**Zip:**

Name of Waste: NON-HAZ SOIL

Estimated Annual Volume: 75 Tons

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 2/6/2020

III. Facility Decision: ☒ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** CHRIS COYLE

Date: 2/6/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 1720

Sales Rep #:

I. Generator Information

Generator Name: Southern California Edison

Generator Site Address: 7314 Scout Ave

City: Bell Gardens County: LA State: California Zip: 90201

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☑ (if different) Po Box 700

City: Rosemead County: LA State: California Zip: 91770

Generator Contact Name: Ryan Castillo Email: ryan.castillo@sce.com

Phone Number: 6266560453 Ext: Fax Number:

II. Billing Information

Bill To: W.A. Rasic Construction Co., Inc. Contact Name: Chris Galvin

Billing Address: 4150 Long Beach Blvd. Email: cgalvin@WARasic.com

City: Long Beach State: California Zip: 90807 Phone: (562) 928-6111

III. Waste Stream Information

Name of Waste: Non-Haz Soil

Process Generating Waste: Excavation of soil in support of removal of 4kV substation

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 60-75 Volume Type: Tons

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☐ **No Sample Taken**

☑ **Sample Taken** **Type of Sample** Composite Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☑ **Yes** ☐ **No**

Sample Date: 11/27/19

Sample ID Numbers or SDS: S1

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Soil	100
2.	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Brown	None	☐ Yes ☑ No	100	7	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?	☐ Yes	☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2. Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?	☐ Yes	☑ No

4b. If yes to the above question, please provide clarification.

Special Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Ryan Castillo	Program Manager	SCE
Authorized Representative Name (Printed)	Title (Printed)	Company Name

Ryan Castillo	02/05/2020
Representative Signature	Date

Kidd, Kelly - Stockton

From: SignNow <mail@signnow.com>
Sent: Wednesday, February 5, 2020 1:22 PM
To: Kidd, Kelly - Stockton
Subject: ryan.castillo@sce.com Has Signed Your Document

ryan.castillo@sce.com signed the document **"SCE SCOUT AVE"** using SignNow.

Use SignNow on iOS, Android, and the Web.

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Christine Brendle

Number of Pages 18
Date Received 11/27/2019
Date Reported 02/05/2020

Job Number	Order Date	Client
102438	11/27/2019	SCE

Project ID: IO# TBD
Project Name: Maple 4kV
Site: Maple Substation
7314 Scout Ave.
Bell Gardens, CA

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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CHAIN OF CUSTODY RECORD

102438

WCI page 1 of 1

COMPANY	Eco & Assoc. for SCE (WCI)	PHONE	(949) 939-4966
PROJECT MANAGER	C. Brendle	FAX	
PROJECT NAME	MAPLE 4kV (W.A. RASIC)	PROJECT #	I.O.#
SITE NAME AND ADDRESS	MAPLE SUB 7314 Scout Ave., Bell Gardens, CA	SAP #	TD963884
		ECO #	19-254

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCB 8082-PQL 1.0mg/kg	TPH (g,d,o) 8015B*	Metals 6010B*	VOCs 8260B	TPH (g,d,o) 8015B	Metals 6010B								COMMENTS
1	S1	102438-01	11-27-19/1030	soil	1-8oz.	ICE	X			X	X	X								*Lab composite samples, for all depths less than 6.0', for separate soil borings. Do not composite for PCBs. [WCI]
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

ANALYSIS REQUESTED

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	1	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

O NORMAL | X RUSH 24 HR.

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: Vikas Mathur	Signature:	Signature: 1600
Printed Name: Vikas Mathur	Printed Name:	Printed Name: Carlos Garcia 11-27-19
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name: Carlos Garcia	Printed Name:	Printed Name:
Date / Time: 11-27-19 13:55	Date / Time:	Date / Time: 11/27/19 1600

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

102438

WCI

COMPANY	Eco & Assoc. for SCE (WCI)	PHONE	(949) 939-4966
PROJECT MANAGER	C. Brendle	FAX	
PROJECT NAME	MAPLE 4kV (W.A. RASIC)	PROJECT #	I.O.#
SITE NAME AND ADDRESS	MAPLE SUB 7314 Scout Ave., Bell Gardens, CA	SAP #	TD 963884
		ECO #	19-254

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCB 8082-PQL 1.0mg/kg	TPH (g,d,o) 8015B*	Metals 6010B*	VOCs 8260B	TPH (g,d,o) 8015B	Metals 6010B	Moisture	COMMENTS
1	S1	102438-01	11-27-19/1030	SOIL	1-8oz.	ICE	X			X	X	X	*	*Lab composite samples, for all depths less than 6.0', for separate soil borings. Do not composite for PCBs. [WCI]
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	1	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

O NORMAL | X RUSH 24 HR.

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: Vikas Mathur	Signature:	Signature: Carlos Garcia 1600
Printed Name: Vikas Mathur	Printed Name:	Printed Name: Carlos Garcia 11-27-19
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name: Carlos Garcia	Printed Name:	Printed Name:
Date / Time: 11-27-19 13:58	Date / Time:	Date / Time:

11/27/19 1600

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD # 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Edison
Project Name:
AETL Job Number: 102438
Date Received: 11/27/19 Received by: [illegible]
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.2°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): _____
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☒ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:

_____
_____
_____
_____

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Christine Brendle

Project ID: IO# TBD
Date Received 11/27/2019
Date Reported 12/02/2019

Job Number	Order Date	Client
102438	11/27/2019	SCE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 11/27/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
102438.01	S1	11/27/2019	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	11/28/2019	2	Rush	mg/Kg
(8082) ^ SCE-1PPM	11/28/2019	2	Rush	mg/Kg
(8260B) ^ SCE	11/28/2019	2	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	11/28/2019	2	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	11/28/2019	2	Rush	mg/Kg
ASTM-D2216	11/28/2019	2	Rush	% wt

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Note: PCB is based on dry weight.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Site

Maple Substation
7314 Scout Ave.
Bell Gardens, CA

Telephone: (909)274-1646
Attn: Christine Brendle
Page: 2

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1127192C5

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			3050B	3050B			
Date Analyzed			12/02/2019	12/02/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	5.0	5.0	ND	ND			
Arsenic	2.5	2.5	ND	5.02			
Barium	5.0	5.0	ND	68.5			
Beryllium	2.5	2.5	ND	ND			
Cadmium	2.5	2.5	ND	ND			
Chromium	5.0	5.0	ND	12.8			
Cobalt	5.0	5.0	ND	6.19			
Copper	5.0	5.0	ND	12.5			
Lead	5.0	5.0	ND	ND			
Mercury (By EPA 7471)	0.2	0.2	ND	ND			
Molybdenum	5.0	5.0	ND	ND			
Nickel	5.0	5.0	ND	9.05			
Selenium	5.0	5.0	ND	ND			
Silver	5.0	5.0	ND	ND			
Thallium	5.0	5.0	ND	ND			
Vanadium	5.0	5.0	ND	25.5			
Zinc	5.0	5.0	ND	63.4			

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Site

Maple Substation
7314 Scout Ave.
Bell Gardens, CA

Telephone: (909)274-1646
Attn: Christine Brendle
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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112719ZB2

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			3550B	3550B			
Date Analyzed			12/02/2019	12/02/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND			
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND			
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND			
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND			
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND			
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND			
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND			
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND			
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND			
Our Lab I.D.			Method Blank	**102438.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		106	84.0			
Tetrachloro-m-xylene	30-150		73.2	75.6			

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127192A1

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			5030	5030			
Date Analyzed			11/27/2019	11/27/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	0.025	0.025	ND	ND			
Benzene	0.001	0.001	ND	ND			
Bromobenzene (Phenyl bromide)	0.005	0.005	ND	ND			
Bromochloromethane	0.005	0.005	ND	ND			
Bromodichloromethane	0.005	0.005	ND	ND			
Bromoform (Tribromomethane)	0.025	0.025	ND	ND			
Bromomethane (Methyl bromide)	0.015	0.015	ND	ND			
2-Butanone (MEK)	0.025	0.025	ND	ND			
n-Butylbenzene	0.005	0.005	ND	ND			
sec-Butylbenzene	0.005	0.005	ND	ND			
tert-Butylbenzene	0.005	0.005	ND	ND			
Carbon Disulfide	0.025	0.025	ND	ND			
Carbon tetrachloride	0.005	0.005	ND	ND			
Chlorobenzene	0.005	0.005	ND	ND			
Chloroethane	0.015	0.015	ND	ND			
2-Chloroethyl vinyl ether	0.050	0.050	ND	ND			
Chloroform (Trichloromethane)	0.005	0.005	ND	ND			
Chloromethane (Methyl chloride)	0.015	0.015	ND	ND			
2-Chlorotoluene	0.005	0.005	ND	ND			
4-Chlorotoluene	0.005	0.005	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	0.005	0.005	ND	ND			
Dibromochloromethane	0.005	0.005	ND	ND			
1,2-Dibromoethane (EDB)	0.005	0.005	ND	ND			
Dibromomethane	0.005	0.005	ND	ND			
1,2-Dichlorobenzene	0.005	0.005	ND	ND			
1,3-Dichlorobenzene	0.005	0.005	ND	ND			
1,4-Dichlorobenzene	0.005	0.005	ND	ND			
Dichlorodifluoromethane	0.015	0.015	ND	ND			

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ANALYTICAL RESULTS

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127192A1

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			5030	5030			
Date Analyzed			11/27/2019	11/27/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,1-Dichloroethane	0.005	0.005	ND	ND			
1,2-Dichloroethane (EDC)	0.005	0.005	ND	ND			
1,1-Dichloroethene	0.005	0.005	ND	ND			
cis-1,2-Dichloroethene	0.005	0.005	ND	ND			
trans-1,2-Dichloroethene	0.005	0.005	ND	ND			
1,2-Dichloropropane	0.005	0.005	ND	ND			
1,3-Dichloropropane	0.005	0.005	ND	ND			
2,2-Dichloropropane	0.005	0.005	ND	ND			
1,1-Dichloropropene	0.005	0.005	ND	ND			
cis-1,3-Dichloropropene	0.005	0.005	ND	ND			
trans-1,3-Dichloropropene	0.005	0.005	ND	ND			
Ethylbenzene	0.001	0.001	ND	ND			
Hexachlorobutadiene	0.015	0.015	ND	ND			
2-Hexanone	0.025	0.025	ND	ND			
Iodomethane	0.005	0.005	ND	ND			
Isopropylbenzene	0.005	0.005	ND	ND			
p-Isopropyltoluene	0.005	0.005	ND	ND			
4-Methyl-2-pentanone (MIBK)	0.025	0.025	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.002	0.002	ND	ND			
Methylene chloride (DCM)	0.025	0.025	ND	ND			
Naphthalene	0.005	0.005	ND	ND			
n-Propylbenzene	0.005	0.005	ND	ND			
Styrene	0.005	0.005	ND	ND			
1,1,1,2-Tetrachloroethane	0.005	0.005	ND	ND			
1,1,2,2-Tetrachloroethane	0.005	0.005	ND	ND			
Tetrachloroethene	0.002	0.002	ND	ND			
Toluene (Methyl benzene)	0.001	0.001	ND	ND			
1,2,3-Trichlorobenzene	0.005	0.005	ND	ND			
1,2,4-Trichlorobenzene	0.005	0.005	ND	ND			
1,1,1-Trichloroethane	0.005	0.005	ND	ND			
1,1,2-Trichloroethane	0.005	0.005	ND	ND			
Trichloroethene	0.0015	0.0015	ND	ND			
Trichlorofluoromethane	0.005	0.005	ND	ND			
1,2,3-Trichloropropane	0.001	0.001	ND	ND			

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ANALYTICAL RESULTS

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127192A1

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			5030	5030			
Date Analyzed			11/27/2019	11/27/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,4-Trimethylbenzene	0.005	0.005	ND	ND			
1,3,5-Trimethylbenzene	0.005	0.005	ND	ND			
Vinyl Acetate	0.025	0.025	ND	ND			
Vinyl chloride (Chloroethene)	0.005	0.005	ND	ND			
o-Xylene	0.001	0.001	ND	ND			
m,p-Xylenes	0.001	0.001	ND	ND			
Our Lab I.D.			Method Blank	**102438.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		100	103			
Dibromofluoromethane	75-125		106	106			
Toluene-d8	75-125		99.4	100			

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112719OB1

Our Lab I.D.			Method Blank	**102438.01**			
Client Sample I.D.				S1			
Date Sampled				11/27/2019			
Date Prepared			11/27/2019	11/27/2019			
Preparation Method			5030	5030			
Date Analyzed			11/27/2019	11/27/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND			
Our Lab I.D.			Method Blank	**102438.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		106	97.2			

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112719DB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/27/2019				
Preparation Method			3550B				
Date Analyzed			11/27/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	10.0	10.0	ND				
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND				
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		110				

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112719DB1

Our Lab I.D.			**102438.01**				
Client Sample I.D.			S1				
Date Sampled			11/27/2019				
Date Prepared			11/27/2019				
Preparation Method			3550B				
Date Analyzed			11/27/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			4				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	40	40	2,330				
TPH as Heavy Hydrocarbons (C23-C40)	400	400	4,750				
TPH Total as Diesel and Heavy HC.C13-C40	400	400	7,080				
Our Lab I.D.			**102438.01**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		109				

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO020420-1

Our Lab I.D.			**102438.01**				
Client Sample I.D.			S1				
Date Sampled			11/27/2019				
Date Prepared			02/04/2020				
Preparation Method			ASTM-D2216				
Date Analyzed			02/05/2020				
Matrix			Soil				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	15.9				

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1127192C5; Dup or Spiked Sample: 102438.01; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 12/02/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	49.8	99.6	50.0	50.0	100	<1	75-125	<15
Arsenic	5.02	50.0	57.5	105	50.0	61.5	113	7.3	75-125	<15
Barium	68.5	50.0	114	91.0	50.0	116	95.0	4.3	75-125	<15
Beryllium	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15
Cadmium	0.00	50.0	45.0	90.0	50.0	45.6	91.2	1.3	75-125	<15
Chromium	12.8	50.0	56.7	87.8	50.0	56.9	88.2	<1	75-125	<15
Cobalt	6.19	50.0	49.8	87.2	50.0	49.7	87.0	<1	75-125	<15
Copper	12.5	50.0	66.5	108	50.0	67.5	110	1.8	75-125	<15
Lead	0.00	50.0	44.3	88.6	50.0	44.8	89.6	1.1	75-125	<15
Mercury (By EPA 7471)	0.0270	0.500	0.577	110	0.500	0.572	109	<1	75-125	<15
Molybdenum	0.00	50.0	45.7	91.4	50.0	47.1	94.2	3.0	75-125	<15
Nickel	9.05	50.0	52.0	85.9	50.0	52.2	86.3	<1	75-125	<15
Selenium	0.00	50.0	47.4	94.8	50.0	49.5	99.0	4.3	75-125	<15
Silver	0.00	50.0	47.2	94.4	50.0	47.9	95.8	1.5	75-125	<15
Thallium	0.00	50.0	32.4	64.8	50.0	32.0	64.0	1.2	75-125	<15
Vanadium	25.5	50.0	75.2	99.4	50.0	76.0	101	1.6	75-125	<15
Zinc	63.4	50.0	101	75.2	50.0	102	77.2	2.6	75-125	<15

QC Batch No: 1127192C5; Dup or Spiked Sample: 102438.01; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 12/02/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	54.4	109	50.0	54.0	108	<1	75-125	<15	
Arsenic	50.0	57.5	115	50.0	53.5	107	7.2	75-125	<15	
Barium	50.0	50.2	100	50.0	49.5	99.0	1.0	75-125	<15	
Beryllium	50.0	55.4	111	50.0	55.7	111	<1	75-125	<15	
Cadmium	50.0	54.5	109	50.0	53.8	108	<1	75-125	<15	
Chromium	50.0	50.6	101	50.0	50.5	101	<1	75-125	<15	
Cobalt	50.0	54.7	109	50.0	54.5	109	<1	75-125	<15	
Copper	50.0	53.1	106	50.0	52.6	105	<1	75-125	<15	
Lead	50.0	52.7	105	50.0	51.8	104	<1	75-125	<15	

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 1127192C5; Dup or Spiked Sample: 102438.01; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 12/02/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.550	110	0.500	0.550	110	<1	75-125	<15	
Molybdenum	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Nickel	50.0	55.2	110	50.0	55.0	110	<1	75-125	<15	
Selenium	50.0	53.8	108	50.0	54.1	108	<1	75-125	<15	
Silver	50.0	53.3	107	50.0	52.7	105	1.9	75-125	<15	
Thallium	50.0	50.9	102	50.0	50.3	101	<1	75-125	<15	
Vanadium	50.0	53.7	107	50.0	53.0	106	<1	75-125	<15	
Zinc	50.0	55.6	111	50.0	55.4	111	<1	75-125	<15	

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Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112719ZB2; Dup or Spiked Sample: 102379.42; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 12/02/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.252	50.4	0.500	0.286	57.2	12.6	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.339	67.8	0.500	0.336	67.2	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0207	82.8	0.0250	0.0203	81.2	2.0	30-150	<20
Tetrachloro-m-xylene	0.00	0.0250	0.0157	62.8	0.0250	0.0115	46.0	30.9	30-150	<20

QC Batch No: 112719ZB2; Dup or Spiked Sample: 102379.42; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 12/02/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	0.500	0.256	51.2	50-150						
Aroclor-1260 (PCB-1260)	0.500	0.321	64.2	50-150						
Surrogates										
Decachlorobiphenyl	0.0250	0.0198	79.2	30-150						
Tetrachloro-m-xylene	0.0250	0.0128	51.2	30-150						

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Pomona, CA 91768-

Site

Maple Substation
7314 Scout Ave.
Bell Gardens, CA

Telephone: (909)274-1646
Attn: Christine Brendle
Page: **14**

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127192A1; Dup or Spiked Sample: 102427.01; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 11/27/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	0.0500	0.0477	95.4	0.0500	0.0454	90.8	4.9	75-125	<20
Carbon tetrachloride	0.00	0.0500	0.0520	104	0.0500	0.0495	99.0	4.9	75-125	<20
Chlorobenzene	0.00	0.0500	0.0482	96.4	0.0500	0.0456	91.2	5.5	75-125	<20
Chloroform (Trichloromethane)	0.00	0.0500	0.0494	98.8	0.0500	0.0492	98.4	<1	75-125	<20
1,2-Dichlorobenzene	0.00	0.0500	0.0475	95.0	0.0500	0.0460	92.0	3.2	75-125	<20
1,1-Dichloroethane	0.00	0.0500	0.0472	94.4	0.0500	0.0457	91.4	3.2	75-125	<20
1,1-Dichloroethene	0.00	0.0500	0.0487	97.4	0.0500	0.0550	110	12.2	75-125	<20
cis-1,2-Dichloroethene	0.00	0.0500	0.0493	98.6	0.0500	0.0480	96.0	2.7	75-125	<20
Ethylbenzene	0.00	0.0500	0.0471	94.2	0.0500	0.0449	89.8	4.8	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	0.0500	0.0454	90.8	0.0500	0.0480	96.0	5.6	75-125	<20
n-Propylbenzene	0.00	0.0500	0.0478	95.6	0.0500	0.0447	89.4	6.7	75-125	<20
Toluene (Methyl benzene)	0.00	0.0500	0.0464	92.8	0.0500	0.0439	87.8	5.5	75-125	<20
1,1,1-Trichloroethane	0.00	0.0500	0.0520	104	0.0500	0.0490	98.0	5.9	75-125	<20
1,1,2-Trichloroethane	0.00	0.0500	0.0450	90.0	0.0500	0.0457	91.4	1.5	75-125	<20
Trichloroethene	0.00	0.0500	0.0535	107	0.0500	0.0515	103	3.8	75-125	<20
1,2,4-Trimethylbenzene	0.00	0.0500	0.0487	97.4	0.0500	0.0458	91.6	6.1	75-125	<20
1,3,5-Trimethylbenzene	0.00	0.0500	0.0468	93.6	0.0500	0.0446	89.2	4.8	75-125	<20
o-Xylene	0.00	0.0500	0.0486	97.2	0.0500	0.0454	90.8	6.8	75-125	<20
m,p-Xylenes	0.00	0.100	0.0960	96.0	0.100	0.0905	90.5	5.9	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0479	95.8	0.0500	0.0471	94.1	1.8	75-125	<20
Dibromofluoromethane	0.00	0.0500	0.0488	97.5	0.0500	0.0492	98.4	<1	75-125	<20
Toluene-d8	0.00	0.0500	0.0480	95.9	0.0500	0.0470	94.0	2.0	75-125	<20

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1127192A1; Dup or Spiked Sample: 102427.01; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 11/27/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	0.0500	0.0505	101	0.0500	0.0500	100	<1	75-125	<20	
Carbon tetrachloride	0.0500	0.0550	110	0.0500	0.0535	107	2.8	75-125	<20	
Chlorobenzene	0.0500	0.0515	103	0.0500	0.0510	102	<1	75-125	<20	
Chloroform (Trichloromethane)	0.0500	0.0500	100	0.0500	0.0510	102	2.0	75-125	<20	
1,2-Dichlorobenzene	0.0500	0.0520	104	0.0500	0.0490	98.0	5.9	75-125	<20	
1,1-Dichloroethane	0.0500	0.0495	99.0	0.0500	0.0495	99.0	<1	75-125	<20	
1,1-Dichloroethene	0.0500	0.0451	90.2	0.0500	0.0445	89.0	1.3	75-125	<20	
cis-1,2-Dichloroethene	0.0500	0.0510	102	0.0500	0.0505	101	<1	75-125	<20	
Ethylbenzene	0.0500	0.0505	101	0.0500	0.0495	99.0	2.0	75-125	<20	
Methyl-tert-butyl ether (MTBE)	0.0500	0.0555	111	0.0500	0.0545	109	1.8	75-125	<20	
n-Propylbenzene	0.0500	0.0505	101	0.0500	0.0480	96.0	5.1	75-125	<20	
Toluene (Methyl benzene)	0.0500	0.0498	99.6	0.0500	0.0490	98.0	1.6	75-125	<20	
1,1,1-Trichloroethane	0.0500	0.0540	108	0.0500	0.0535	107	<1	75-125	<20	
1,1,2-Trichloroethane	0.0500	0.0565	113	0.0500	0.0540	108	4.5	75-125	<20	
Trichloroethene	0.0500	0.0545	109	0.0500	0.0535	107	1.9	75-125	<20	
1,2,4-Trimethylbenzene	0.0500	0.0520	104	0.0500	0.0495	99.0	4.9	75-125	<20	
1,3,5-Trimethylbenzene	0.0500	0.0505	101	0.0500	0.0480	96.0	5.1	75-125	<20	
o-Xylene	0.0500	0.0525	105	0.0500	0.0510	102	2.9	75-125	<20	
m,p-Xylenes	0.100	0.103	103	0.100	0.101	101	2.0	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0493	98.6	0.0500	0.0485	96.9	1.7	75-125	<20	
Dibromofluoromethane	0.0500	0.0485	97.0	0.0500	0.0505	101	4.0	75-125	<20	
Toluene-d8	0.0500	0.0487	97.4	0.0500	0.0485	97.0	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Site

Maple Substation
7314 Scout Ave.
Bell Gardens, CA

Telephone: (909)274-1646
Attn: Christine Brendle
Page: 16

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112719DB1; Dup or Spiked Sample: 102379.06; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 11/27/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	530	106	500	520	104	1.9	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	103	103	100	101	101	2.0	75-125	<20

QC Batch No: 112719DB1; Dup or Spiked Sample: 102379.06; LCS: Clean Sand; QC Prepared: 11/27/2019; QC Analyzed: 11/27/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	530	106	500	535	107	<1	75-125	<20	
Surrogates										
Chlorobenzene	100	102	102	100	103	103	<1	75-125	<20	

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Page: **17**

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112719OB1; LCS: Clean Sand; LCS Prepared: 11/27/2019; LCS Analyzed: 11/27/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.950	95.0	1.00	0.940	94.4	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0573	115	0.0500	0.0552	110	4.35	75-125	<20	

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Site

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Bell Gardens, CA

Page: 18

Project ID: IO# TBD
Project Name: Maple 4kV

AETL Job Number	Submitted	Client
102438	11/27/2019	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO020420-1; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	15.9	15.5	2.5	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

AGENT SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: **5123 20 1720**

Agent Billing Information

Name: WA RASIC CONSTRUCTION CO(ACCT 333339)
Address: 4150 LONG BEACH BLVD
City: LONG BEACH
State: CA Zip: 90807
Phone: 562.928.6111 Fax:
Contact: CHRIS GALVIN

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123
14747 SAN FERNANDO ROAD
SYLMAR, CA 91342
818.362.2141

Project: SOUTHERN CA EDISON, 7314 SCOUT AV, BELL GARDENS

County and State of Origin: LOS ANGELES, CA

Generator Address: PO BOX 700 ROSEMEAD, CA 91770

Additional Information: CONTACT: RYAN CASTILLO 626.656.0453

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Agent.

2. **(A) Rates for Disposal**:

Waste		Disposal Rate:	Fees / Taxes / Misc.	Transportation
NON HAZ SOIL	LANDFILL		N/A	N/A

Additional Information: INVOICE AND LATE FEES APPLY
MATERIAL CODE: VG-SW-CONTAMINATED SOIL | PROFILE EXPIRES 02/05/2021 | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL (LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE).

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations

Cannot Exceed Daily Volume of 75 TONS Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 02/06/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

SIGNA

NAME AND TITLE (PLEASE PRINT)

2-06-20
DATE

REPUBLIC SERVICES/COMPANY Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN MESE
NAME AND TITLE (PLEASE PRINT)

2/7/2020
DATE

Terms and Conditions of Agent Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Agent represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Acceptable Waste to Company, Agent has provided an Application for such Special Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7. Rights of Refusal/Rejection. The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Agent.

11. Driver's Knowledge and Authority. Agent represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (where Agent hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited, to whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the Special Waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. Liquidated Damages. If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

Edward Antolin

AGENT: CG REPUBLIC SERVICES/COMPANY: _____

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123204303	**Expiration Date** 3/30/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: SOUTHERN CALIFORNIA EDISON			
Generator Site Address: ALEXANDER ST AND RICKENBACKER RD			
City: COMMERCE	**County:**	**State:** CA	**Zip:**
Name of Waste: NON HAZ SOIL			
Estimated Annual Volume: 260 Tons			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 4/2/2020

III. Facility Decision: ☑ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Cayle

Date: 4/2/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 4303

Sales Rep #:

I. Generator Information

Generator Name: Southern California Edison

Generator Site Address: Alexander Street and Rickenbacker Rd

City: Commerce County: LA State: California Zip: 90040

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☑ (if different) Po Box 700

City: Rosemead County: LA State: California Zip: 91770

Generator Contact Name: Ryan Castillo Email: ryan.castillo@sce.com

Phone Number: 6266560453 Ext: Fax Number:

II. Billing Information

Bill To: W.A. Rasic Construction Co., Inc. Contact Name: Chris Galvin

Billing Address: 4150 Long Beach Blvd. Email: cgalvin@WARasic.com

City: Long Beach State: California Zip: 90807 Phone: (562) 928-6111

III. Waste Stream Information

Name of Waste: Non-Haz Soil

Process Generating Waste: Excavation of soil in order to install an underground electrical vault.

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 260 Volume Type: Tons

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☐ **No Sample Taken**

☑ **Sample Taken** **Type of Sample** Composite Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☑ **Yes** ☐ **No**

Sample Date: 3/13/20

Sample ID Numbers or SDS: S1, S2

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Soil	100
2.	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Brown	None	☐ Yes ☑ No	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?	☐ Yes	☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2. Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?	☐ Yes	☑ No

4b. If yes to the above question, please provide clarification.

Special Waste Profile

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Ryan Castillo	Program Mgr	SCE
Authorized Representative Name (Printed)	Title (Printed)	Company Name

Ryan Castillo	03/30/2020
Representative Signature	Date

Kidd, Kelly - Stockton

From: SignNow <noreply@signnow.com> on behalf of SignNow <mail@signnow.com>
Sent: Monday, March 30, 2020 7:39 AM
To: Kidd, Kelly - Stockton
Subject: ryan.castillo@sce.com Has Signed Your Document

Note that (noreply@signnow.com) is an external email. Report suspicious emails by clicking on “Report Phishing"

ryan.castillo@sce.com signed the document **"SCE ALEXANDER AND RICKENBACKER"** using SignNow.

Best regards ♡ from the SignNow Team

Contact Support Terms of Service Privacy Policy

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Ryan Castillo

Number of Pages 4
Date Received 03/13/2020
Date Reported 04/02/2020

Job Number	Order Date	Client
104053	03/13/2020	SCE

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)
Site: Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

104053

COMPANY	Eco & Assoc. for SCE (WCI)	PHONE	(626) 656-0453
PROJECT MANAGER	R. Castillo	FAX	
PROJECT NAME	COMMERCE VAULT (Riverside 16kV)	PROJECT #	I.O.#
SITE NAME AND ADDRESS	Commerce Vault Alexander/Rickenbacker, Commerce, CA	SAP #	TD948853
		ECO #	20-293

WCI

page 1 of 1

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCB 8082-PQL 1.0mg/kg	TPH (g,d,o) 8015B*	Metals 6010B*	VOCs 8260B	TPH (g,d,o) 8015B	Metals 6010B	Moisture %		STLC As					COMMENTS
1	S1	104053.01	3-13-20 / 1030	SOIL	1-8oz	ICE	X				X	X	X							
2	S2	104053.02	↓ / 1045	↓	↓	↓	X			X	X	X	X		(X)					
3																				
4																				
5																				X 3/18
6																				
7																				(X)(1) 3/31
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

ANALYSIS REQUESTED

*Lab composite samples, for all depths less than 6.0', for separate soil borings. Do not composite for PCBs. [WCI]

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	2	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

O NORMAL X RUSH 3-DAY

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: Vikas Mathur	Signature:	Signature: 16:45
Printed Name: Vikas Mathur	Printed Name:	Printed Name: Carlos Garcia 3/13/20
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name: Carlos Garcia	Printed Name:	Printed Name:
Date / Time: 3/13/20 / 1058	Date / Time:	Date / Time: 03/13/20 / 1645

Jim Lin

From:	Ryan Castillo <Ryan.Castillo@sce.com>
Sent:	Tuesday, March 31, 2020 7:26 AM
To:	Jim Lin
Cc:	Joe Sevrean; Christine Novshadayan
Subject:	RE: (External):Results of analysis, AETL Job No.: 104053 (In New Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264"
Attachments:	104053-io_ 345264-All.xls

Good morning, is it typical for concentrations to change when including moisture content? It slipped by me, but the landfill noticed that arsenic is now >50ppm and would need STLC.

Thanks,

Ryan

From: Jim Lin <jiml@aetlab.com>
Sent: Thursday, March 26, 2020 3:18 PM
To: Ryan Castillo <Ryan.Castillo@sce.com>
Cc: Mike Gibbs <mfiuzat@ecoinc.info>; ppeterson@ecoinc.info; vmathur@ecoinc.info; Joe Sevrean <Jsevrean@aetlab.com>; Christine Novshadayan <christine@aetlab.com>; Christine Brendle <christine.brendle@sce.com>
Subject: (External):Results of analysis, AETL Job No.: 104053 (In New Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264"

CAUTION EXTERNAL EMAIL

Hello Ryan, Christine, Mitra, Paul and Vikas,

Herewith please find results of analysis (In Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264" which were received by AETL on 03/13/2020 at 16:45.

AETL Job No: 104053

With Moisture correction

If you have any questions, please call me at 888-288-AETL.

Thank you,

Jim Lin, Operations Manager
American Environmental Testing Laboratory
2834 North Naomi Street
Burbank, CA 91504

Phone: 818-845-8200 ext 2807

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Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Ryan Castillo

Project ID: IO# 345264
Date Received 03/13/2020
Date Reported 03/18/2020

Job Number	Order Date	Client
104053	03/13/2020	SCE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 03/13/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104053.01	S1	03/13/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	03/16/2020	4	Rush	mg/Kg
(8082) ^ SCE-1PPM	03/16/2020	4	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	03/16/2020	4	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	03/16/2020	4	Rush	mg/Kg
ASTM-D2216	03/16/2020	4	Rush	% wt

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104053.02	S2	03/13/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ SCE-AS	03/16/2020	4	Rush	mg/L
(6010B/7000CAM) ^ SCE	03/16/2020	4	Rush	mg/Kg
(8082) ^ SCE-1PPM	03/16/2020	4	Rush	mg/Kg
(8260B) ^ SCE	03/16/2020	4	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	03/16/2020	4	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	03/16/2020	4	Rush	mg/Kg
ASTM-D2216	03/16/2020	4	Rush	% wt

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on dry weight.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attn: Ryan Castillo

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Page: **2**

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B-STLC), Soluble Threshold Limit Concentration of Arsenic

QC Batch No: 0331202C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/31/2020				
Preparation Method			TITLE 22				
Date Analyzed			04/02/2020				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (STLC)	0.05	0.05	ND				

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ANALYTICAL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Telephone: (909)274-1646
Attn: Ryan Castillo
Page: 3

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B-STLC), Soluble Threshold Limit Concentration of Arsenic

QC Batch No: 0331202C5

Our Lab I.D.			**104053.02**				
Client Sample I.D.			S2				
Date Sampled			03/13/2020				
Date Prepared			03/31/2020				
Preparation Method			TITLE 22				
Date Analyzed			04/02/2020				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (STLC)	0.50	0.50	2.75				

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QUALITY CONTROL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attn: Ryan Castillo

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Page: **4**

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B-STLC), Soluble Threshold Limit Concentration of Arsenic

QC Batch No: 0331202C5; Dup or Spiked Sample: 104053.02; LCS: Clean Sand; LCS Prepared: 03/31/2020; LCS Analyzed: 04/02/2020; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (STLC)	2.75	2.74	<1	<20						

QC Batch No: 0331202C5; Dup or Spiked Sample: 104053.02; LCS: Clean Sand; LCS Prepared: 03/31/2020; LCS Analyzed: 04/02/2020; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic (STLC)	10.0	11.1	111	10.0	11.2	112	<1	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

FAX

INCOMPLETE FILE TRANSMITTAL

TO: Kelly Kidd	**LOG NO.:** 5123204303
FAX:	**File Received:** 3/30/2020
From: Special Waste Dept.	**Response Date:** 3/30/2020
Re: SOUTHERN CALIFORNIA EDISON / NON HAZ SOIL	

SECTION I	SECTION II	SECTION III	SECTION IV	SECTION V	SECTION VI
☐ DisposalFacility	☐ TransporterName	☐ NameOfWaste	☐ USEPA	☐ CharacteristicComponents	☐ GenAuthSignature
☐ GeneratorName	☐ TransporterSiteAddress	☐ ProcessGeneratingWaste	☐ SampleDate	☐ FreeLiquids	☐ GenCoName
☐ GeneratorSiteAddress	☐ TransporterCityStateZip	☐ TypeOfWaste	☐ CompositeGrab	☐ YesNo	☐ NoStateLetter
☐ GeneratorCityStateZip	☐ TransporterMailingAddress	☐ PhysicalState	☐ SampleID	☐ pH_Flash	☐ Name_Title
☐ GeneratorMailingAddress	☐ TransporterContactName	☐ MethodOfShipment			☐ SignatureDate
☐ GeneratorContactName	☐ TransporterTelFax	☐ EstimatedAnnualVolume			
☐ GeneratorTelFax		☐ Frequency			
☐ GeneratorStateID		☐ DisposalConsideration			
☐ WasteCodeTexas					

ANALYTICALS	TCLP TOTAL METALS	TCLP VOLATILES	TCLP SEMI-VOLATILES	PESTICIDES / HERBICIDE	
☐ TotalCyanide	☑ Arsenic	☐ Benzene	☐ Cresols	☐ Chlordane	☐ LabLetterhead
☐ ReactiveCyanide	☐ Barium	☐ CarbonTetrachloride	☐ DichlorobenzeneOne	☐ Endrin	☐ ChainOfCustody
☐ TotalSulfide	☐ Cadmium	☐ Chlorobenzene	☐ DinitrotolueneTwo	☐ Heptachlor	☐ NoLabSignature
☐ ReactiveSulfide	☐ Chromium	☐ Chloroform	☐ Hexachlorobenzene	☐ HeptachlorEpoxide	☐ ReportOneYearOldPlus
☐ TotalPCB	☐ Copper	☐ DichloroethaneOne	☐ Nitrobenzene	☐ Lindane	☐ NoThirdPartyLab
☐ TOX_EOX	☐ Lead	☐ DichloroehyleneTwo	☐ Pentachlorophenol	☐ Methoxychlor	☐ MissingReportPages
☐ Phenols	☐ Mercury	☐ MethylEthylKetone	☐ Pyridine	☐ Toxaphene	☐ MissingMSDSPages
☐ FlashPoint	☐ Selenium	☐ Tetrachloroethylene	☐ TrichlorophenolFive	☐ TwoFourD	☐ TotalSulfates
☐ pH	☐ Silver	☐ Trichlorethylene	☐ TrichlorphenolSix	☐ TwoFourFiveTP	☐ TotalSulfur
☐ PaintFilter	☐ Zinc	☐ VinylChloride			☐ WrongProfile
☐ TPH					
☐ BTEX					☑ GeneratorIncomplete

Notes:

Sample S-2 reports 52.6 mg/KG TTLC arsenic: please have the generator provide STLC arsenic analytical data for sample S-2.

Thank you.

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Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Ryan Castillo

Number of Pages 17
Date Received 03/13/2020
Date Reported 03/26/2020

Job Number	Order Date	Client
104053	03/13/2020	SCE

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)
Site: Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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CHAIN OF CUSTODY RECORD

104053

COMPANY	Eco & Assoc. for SCE (WCI)	PHONE	(626) 656-0453
PROJECT MANAGER	R. Castillo	FAX	
PROJECT NAME	COMMERCE VAULT (Riverside 16kV)	PROJECT #	I.O.#
SITE NAME AND ADDRESS	Commerce Vault Alexander/Rickenbacker, Commerce, CA	SAP #	TD948853
		ECO #	20-293

WCI

page 1 of 1

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCB 8082-PQL 1.0mg/kg	TPH (g,d,o) 8015B*	Metals 6010B*	VOCs 8260B	TPH (g,d,o) 8015B	Metals 6010B	Moisture							COMMENTS
1	S1	104053.01	3-13-20 / 1030	SOIL	1-8oz	ICE	X				X	X	X							
2	S2	104053.02	↓ / 1045	↓	↓	↓	X			X	X	X	X							
3																				
4																				*3/18
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

ANALYSIS REQUESTED

*Lab composite samples, for all depths less than 6.0', for separate soil borings. Do not composite for PCBs. [WCI]

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	2	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

O NORMAL | ☒ RUSH 3-DAY

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: Vikas Mathur	Signature:	Signature: 16:45
Printed Name: Vikas Mathur	Printed Name:	Printed Name: Carlos Garcia 3/13/20
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name: Carlos Garcia	Printed Name:	Printed Name:
Date / Time: 3/13/20 / 1458	Date / Time:	Date / Time: 03/13/20 / 1645

Jim Lin

From: Vik Mathur <vmathur@ecoinc.info>
Sent: Tuesday, March 17, 2020 9:37 AM
To: Jim Lin
Cc: Joe Sevrean; ppeterson@ecoinc.info; 'Ryan Castillo'
Subject: City of Commerce Vault
Attachments: COC-Commerce Vault 3-13-20.pdf

Jim,

Please use IO# 345264 for the Commerce Vault project.
COC is attached.

Thank you,
Vik

Vik Mathur – Senior Project Geologist
Business **(714) 289-0995** | Mobile **(714) 728-7546** | vmathur@ecoinc.info
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18231 Irvine Blvd., Suite 204., Tustin, CA 92780 | www.ecoinc.info
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From: Ryan Castillo [mailto:Ryan.Castillo@sce.com]
Sent: Tuesday, March 17, 2020 9:05 AM
To: vmathur@ecoinc.info
Cc: ppeterson@ecoinc.info
Subject: RE: (External):RE: (External):RE: WCI Request - City of Commerce Vault

Vik, please use IO 345264 for this work.

Thanks,

Ryan

From: Ryan Castillo
Sent: Wednesday, March 11, 2020 4:16 PM
To: Vik Mathur <vmathur@ecoinc.info>; wsaucedo@WARasic.com
Cc: ppeterson@ecoinc.info
Subject: RE: (External):RE: (External):RE: WCI Request - City of Commerce Vault

Great, thank you Vik.

Ryan

Jim Lin

From: Vik Mathur <vmathur@ecoinc.info>
Sent: Wednesday, March 18, 2020 2:06 PM
To: Jim Lin; 'Ryan Castillo (SCE)'
Cc: 'Mitra Fiuzat '; 'Paul Peterson'; Joe Sevrean; Christine Novshadayan; 'Christine Brendle (SCE)'
Subject: RE: Results of analysis, AETL Job No.: 104053 (In New Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264"

Jim,

Please proceed with VOC analysis for sample S2 (104053.02)
AETL Job No: 104053

Thank you,
Vik

Vik Mathur – Senior Project Geologist
Business **(714) 289-0995** | Mobile **(714) 728-7546** | vmathur@ecoinc.info
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From: Jim Lin [mailto:jiml@aetlab.com]
Sent: Wednesday, March 18, 2020 1:55 PM
To: Ryan Castillo (SCE)
Cc: Mitra Fiuzat ; Paul Peterson; Vikas Mathur; Joe Sevrean; Christine Novshadayan; Christine Brendle (SCE)
Subject: Results of analysis, AETL Job No.: 104053 (In New Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264"

Hello Ryan, Christine, Mitra, Paul and Vikas,

Herewith please find results of analysis (In Summary Table and PDF formats) of 2 discrete soil samples from "Commerce Vault (Riverside 16kV), IO# 345264" which were received by AETL on 03/13/2020 at 16:45.

AETL Job No: 104053

Please note that the following sample needs ***VOC analysis.***
S2 (104053.02)

If you have any questions, please call me at 888-288-AETL.

Thank you,

Jim Lin, Operations Manager
American Environmental Testing Laboratory

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Edison
Project Name:
AETL Job Number: 104053
Date Received: 03/13/20 Received by: Ant
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (/) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.9°, No 2: , No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☒ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:

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Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Ryan Castillo

Project ID: IO# 345264
Date Received 03/13/2020
Date Reported 03/18/2020

Job Number	Order Date	Client
104053	03/13/2020	SCE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 03/13/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104053.01	S1	03/13/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	03/16/2020	4	Rush	mg/Kg
(8082) ^ SCE-1PPM	03/16/2020	4	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	03/16/2020	4	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	03/16/2020	4	Rush	mg/Kg
ASTM-D2216	03/16/2020	4	Rush	% wt

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104053.02	S2	03/13/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	03/16/2020	4	Rush	mg/Kg
(8082) ^ SCE-1PPM	03/16/2020	4	Rush	mg/Kg
(8260B) ^ SCE	03/16/2020	4	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	03/16/2020	4	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	03/16/2020	4	Rush	mg/Kg
ASTM-D2216	03/16/2020	4	Rush	% wt

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on dry weight.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Pomona, CA 91768-

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Telephone: (909)274-1646
Attn: Ryan Castillo
Page: 2

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 031720ZB1

Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Client Sample I.D.				S1	S2		
Date Sampled				03/13/2020	03/13/2020		
Date Prepared			03/17/2020	03/17/2020	03/17/2020		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/17/2020	03/17/2020	03/17/2020		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		92.0	96.0	110		
Tetrachloro-m-xylene	30-150		112	116	121		

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ANALYTICAL RESULTS

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Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Telephone: (909)274-1646
Attn: Ryan Castillo
Page: 3

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0316202C2

Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Client Sample I.D.				S1	S2		
Date Sampled				03/13/2020	03/13/2020		
Date Prepared			03/16/2020	03/16/2020	03/16/2020		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			03/16/2020	03/16/2020	03/16/2020		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Antimony	5.0	5.0	ND	ND	ND		
Arsenic	2.5	2.5	ND	35.7	52.6		
Barium	5.0	5.0	ND	152	157		
Beryllium	2.5	2.5	ND	ND	ND		
Cadmium	2.5	2.5	ND	ND	ND		
Chromium	5.0	5.0	ND	23.4	27.8		
Cobalt	5.0	5.0	ND	11.9	13.4		
Copper	5.0	5.0	ND	29.1	33.5		
Lead	5.0	5.0	ND	16.3	14.0		
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND		
Molybdenum	5.0	5.0	ND	ND	ND		
Nickel	5.0	5.0	ND	14.5	17.9		
Selenium	5.0	5.0	ND	ND	ND		
Silver	5.0	5.0	ND	ND	ND		
Thallium	5.0	5.0	ND	ND	ND		
Vanadium	5.0	5.0	ND	46.5	53.9		
Zinc	5.0	5.0	ND	100	84.0		

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Commerce, CA

Telephone: (909)274-1646
Attn: Ryan Castillo
Page: **4**

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 031320NB2

Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Client Sample I.D.				S1	S2		
Date Sampled				03/13/2020	03/13/2020		
Date Prepared			03/13/2020	03/13/2020	03/13/2020		
Preparation Method			5030	5030	5030		
Date Analyzed			03/14/2020	03/14/2020	03/14/2020		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND		
Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Bromofluorobenzene	75-125		93.6	108	97.0		

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Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Telephone: (909)274-1646
Attn: Ryan Castillo
Page: 5

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 031620PB1

Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Client Sample I.D.				S1	S2		
Date Sampled				03/13/2020	03/13/2020		
Date Prepared			03/16/2020	03/16/2020	03/16/2020		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			03/16/2020	03/16/2020	03/16/2020		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
TPH as Diesel (C13-C22)	10.0	10.0	ND	20.2	48.7		
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	ND	198		
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	ND	247		
Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Chlorobenzene	75-125		101	103	103		

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ANALYTICAL RESULTS

Ordered By

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Page: 6

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0318201A1

Our Lab I.D.			Method Blank	**104053.02**			
Client Sample I.D.				S2			
Date Sampled				03/13/2020			
Date Prepared			03/18/2020	03/18/2020			
Preparation Method			5030	5030			
Date Analyzed			03/18/2020	03/18/2020			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	0.025	0.025	ND	ND			
Benzene	0.001	0.001	ND	ND			
Bromobenzene (Phenyl bromide)	0.005	0.005	ND	ND			
Bromochloromethane	0.005	0.005	ND	ND			
Bromodichloromethane	0.005	0.005	ND	ND			
Bromoform (Tribromomethane)	0.025	0.025	ND	ND			
Bromomethane (Methyl bromide)	0.015	0.015	ND	ND			
2-Butanone (MEK)	0.025	0.025	ND	ND			
n-Butylbenzene	0.005	0.005	ND	ND			
sec-Butylbenzene	0.005	0.005	ND	ND			
tert-Butylbenzene	0.005	0.005	ND	ND			
Carbon Disulfide	0.025	0.025	ND	ND			
Carbon tetrachloride	0.005	0.005	ND	ND			
Chlorobenzene	0.005	0.005	ND	ND			
Chloroethane	0.015	0.015	ND	ND			
2-Chloroethyl vinyl ether	0.050	0.050	ND	ND			
Chloroform (Trichloromethane)	0.005	0.005	ND	ND			
Chloromethane (Methyl chloride)	0.015	0.015	ND	ND			
2-Chlorotoluene	0.005	0.005	ND	ND			
4-Chlorotoluene	0.005	0.005	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	0.005	0.005	ND	ND			
Dibromochloromethane	0.005	0.005	ND	ND			
1,2-Dibromoethane (EDB)	0.005	0.005	ND	ND			
Dibromomethane	0.005	0.005	ND	ND			
1,2-Dichlorobenzene	0.005	0.005	ND	ND			
1,3-Dichlorobenzene	0.005	0.005	ND	ND			
1,4-Dichlorobenzene	0.005	0.005	ND	ND			
Dichlorodifluoromethane	0.015	0.015	ND	ND			

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ANALYTICAL RESULTS

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0318201A1

Our Lab I.D.			Method Blank	**104053.02**			
Client Sample I.D.				S2			
Date Sampled				03/13/2020			
Date Prepared			03/18/2020	03/18/2020			
Preparation Method			5030	5030			
Date Analyzed			03/18/2020	03/18/2020			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,1-Dichloroethane	0.005	0.005	ND	ND			
1,2-Dichloroethane (EDC)	0.005	0.005	ND	ND			
1,1-Dichloroethene	0.005	0.005	ND	ND			
cis-1,2-Dichloroethene	0.005	0.005	ND	ND			
trans-1,2-Dichloroethene	0.005	0.005	ND	ND			
1,2-Dichloropropane	0.005	0.005	ND	ND			
1,3-Dichloropropane	0.005	0.005	ND	ND			
2,2-Dichloropropane	0.005	0.005	ND	ND			
1,1-Dichloropropene	0.005	0.005	ND	ND			
cis-1,3-Dichloropropene	0.005	0.005	ND	ND			
trans-1,3-Dichloropropene	0.005	0.005	ND	ND			
Ethylbenzene	0.001	0.001	ND	ND			
Hexachlorobutadiene	0.015	0.015	ND	ND			
2-Hexanone	0.025	0.025	ND	ND			
Iodomethane	0.005	0.005	ND	ND			
Isopropylbenzene	0.005	0.005	ND	ND			
p-Isopropyltoluene	0.005	0.005	ND	ND			
4-Methyl-2-pentanone (MIBK)	0.025	0.025	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.002	0.002	ND	ND			
Methylene chloride (DCM)	0.025	0.025	ND	ND			
Naphthalene	0.005	0.005	ND	ND			
n-Propylbenzene	0.005	0.005	ND	ND			
Styrene	0.005	0.005	ND	ND			
1,1,1,2-Tetrachloroethane	0.005	0.005	ND	ND			
1,1,2,2-Tetrachloroethane	0.005	0.005	ND	ND			
Tetrachloroethene	0.002	0.002	ND	ND			
Toluene (Methyl benzene)	0.001	0.001	ND	ND			
1,2,3-Trichlorobenzene	0.005	0.005	ND	ND			
1,2,4-Trichlorobenzene	0.005	0.005	ND	ND			
1,1,1-Trichloroethane	0.005	0.005	ND	ND			
1,1,2-Trichloroethane	0.005	0.005	ND	ND			
Trichloroethene	0.0015	0.0015	ND	ND			
Trichlorofluoromethane	0.005	0.005	ND	ND			
1,2,3-Trichloropropane	0.001	0.001	ND	ND			

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ANALYTICAL RESULTS

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0318201A1

Our Lab I.D.			Method Blank	**104053.02**			
Client Sample I.D.				S2			
Date Sampled				03/13/2020			
Date Prepared			03/18/2020	03/18/2020			
Preparation Method			5030	5030			
Date Analyzed			03/18/2020	03/18/2020			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,4-Trimethylbenzene	0.005	0.005	ND	ND			
1,3,5-Trimethylbenzene	0.005	0.005	ND	ND			
Vinyl Acetate	0.025	0.025	ND	ND			
Vinyl chloride (Chloroethene)	0.005	0.005	ND	ND			
o-Xylene	0.001	0.001	ND	ND			
m,p-Xylenes	0.001	0.001	ND	ND			
Our Lab I.D.			Method Blank	**104053.02**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		91.1	94.1			
Dibromofluoromethane	75-125		95.0	92.6			
Toluene-d8	75-125		109	113			

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ANALYTICAL RESULTS

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Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO032520-1

Our Lab I.D.			Method Blank	**104053.01**	**104053.02**		
Client Sample I.D.				S1	S2		
Date Sampled				03/13/2020	03/13/2020		
Date Prepared			03/25/2020	03/25/2020	03/25/2020		
Preparation Method			ASTM-D2216	ASTM-D2216	ASTM-D2216		
Date Analyzed			03/26/2020	03/26/2020	03/26/2020		
Matrix			Soil	Soil	Soil		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	ND	19.5	21.9		

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Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0316202C2; Dup or Spiked Sample: 104002.03; LCS: Clean Sand; QC Prepared: 03/16/2020; QC Analyzed: 03/16/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	47.9	95.8	50.0	47.5	95.0	<1	75-125	<15
Arsenic	0.00	50.0	46.5	93.0	50.0	45.9	91.8	1.30	75-125	<15
Barium	25.0	50.0	76.0	102	50.0	77.0	104	1.94	75-125	<15
Beryllium	0.00	50.0	52.0	104	50.0	53.0	106	1.90	75-125	<15
Cadmium	0.00	50.0	49.9	99.8	50.0	50.5	101	1.20	75-125	<15
Chromium	8.00	50.0	63.0	110	50.0	62.5	109	<1	75-125	<15
Cobalt	4.85	50.0	53.8	97.9	50.0	54.7	99.7	1.82	75-125	<15
Copper	15.6	50.0	74.1	117	50.0	74.1	117	<1	75-125	<15
Lead	30.0	50.0	65.4 M	70.8	50.0	62.3 M	64.6	9.16	75-125	<15
Mercury (By EPA 7471)	0.0840	0.500	0.575	98.2	0.500	0.582	99.6	1.4	75-125	<15
Molybdenum	0.444	50.0	51.9	103	50.0	52.4	104	<1	75-125	<15
Nickel	4.60	50.0	53.3	97.4	50.0	54.3	99.4	2.03	75-125	<15
Selenium	0.00	50.0	42.1	84.2	50.0	41.2	82.4	2.16	75-125	<15
Silver	0.00	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15
Thallium	0.00	50.0	37.6	75.2	50.0	38.3	76.6	1.84	75-125	<15
Vanadium	21.5	50.0	75.0	107	50.0	76.0	109	1.85	75-125	<15
Zinc	23.0	50.0	68.5	91.0	50.0	69.3	92.6	1.74	75-125	<15

QC Batch No: 0316202C2; Dup or Spiked Sample: 104002.03; LCS: Clean Sand; QC Prepared: 03/16/2020; QC Analyzed: 03/16/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	51.9	104	50.0	52.1	104	<1	75-125	<15	
Arsenic	50.0	53.0	106	50.0	52.9	106	<1	75-125	<15	
Barium	50.0	51.1	102	50.0	50.9	102	<1	75-125	<15	
Beryllium	50.0	53.7	107	50.0	53.0	106	<1	75-125	<15	
Cadmium	50.0	53.4	107	50.0	53.3	107	<1	75-125	<15	
Chromium	50.0	54.0	108	50.0	54.1	108	<1	75-125	<15	
Cobalt	50.0	52.3	105	50.0	52.1	104	<1	75-125	<15	
Copper	50.0	52.9	106	50.0	52.6	105	<1	75-125	<15	
Lead	50.0	48.2	96.4	50.0	48.7	97.4	1.03	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0316202C2; Dup or Spiked Sample: 104002.03; LCS: Clean Sand; QC Prepared: 03/16/2020; QC Analyzed: 03/16/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.483	96.5	0.500	0.482	96.4	<1	75-125	<15	
Molybdenum	50.0	50.7	101	50.0	51.6	103	1.96	75-125	<15	
Nickel	50.0	52.8	106	50.0	52.7	105	<1	75-125	<15	
Selenium	50.0	54.3	109	50.0	54.6	109	<1	75-125	<15	
Silver	50.0	52.1	104	50.0	51.7	103	<1	75-125	<15	
Thallium	50.0	52.9	106	50.0	52.4	105	<1	75-125	<15	
Vanadium	50.0	51.9	104	50.0	51.6	103	<1	75-125	<15	
Zinc	50.0	53.7	107	50.0	53.3	107	<1	75-125	<15	

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Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 031720ZB1; Dup or Spiked Sample: 104025.02; LCS: Clean Sand; QC Prepared: 03/17/2020; QC Analyzed: 03/17/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.505	101	0.500	0.403	80.6	22.5	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.640	128	0.500	0.590	118	8.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0360	144	0.0250	0.0310	124	14.9	30-150	<20
Tetrachloro-m-xylene	0.00	0.0250	0.0375	150	0.0250	0.0350	140	6.9	30-150	<20

QC Batch No: 031720ZB1; Dup or Spiked Sample: 104025.02; LCS: Clean Sand; QC Prepared: 03/17/2020; QC Analyzed: 03/17/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	0.500	0.420	83.4	0.500	0.360	72.6	13.8	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.450	89.4	0.500	0.490	97.2	8.4	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0250	0.0207	82.8	0.0250	0.0253	101	19.8	30-150	<20	
Tetrachloro-m-xylene	0.0250	0.0215	86.0	0.0250	0.0280	112	26.3	30-150	<20	

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Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0318201A1; Dup or Spiked Sample: 104135.01; LCS: Clean Sand; QC Prepared: 03/18/2020; QC Analyzed: 03/18/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	0.0500	0.0395	79.0	0.0500	0.0382	76.4	3.3	75-125	<20
Carbon tetrachloride	0.00	0.0500	0.0366M	73.2	0.0500	0.0356M	71.2	2.8	75-125	<20
Chlorobenzene	0.00	0.0500	0.0448	89.6	0.0500	0.0429	85.8	4.3	75-125	<20
Chloroform (Trichloromethane)	0.00	0.0500	0.0377	75.4	0.0500	0.0363M	72.6	3.8	75-125	<20
1,2-Dichlorobenzene	0.00	0.0500	0.0415	83.0	0.0500	0.0396	79.2	4.7	75-125	<20
1,1-Dichloroethane	0.00	0.0500	0.0382	76.4	0.0500	0.0371M	74.2	2.9	75-125	<20
1,1-Dichloroethene	0.00	0.0500	0.0340M	68.0	0.0500	0.0328M	65.6	3.6	75-125	<20
cis-1,2-Dichloroethene	0.00	0.0500	0.0381	76.2	0.0500	0.0366M	73.2	4.0	75-125	<20
Ethylbenzene	0.00	0.0500	0.0447	89.4	0.0500	0.0431	86.2	3.6	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	0.0500	0.0325M	65.0	0.0500	0.0304M	60.8	6.7	75-125	<20
n-Propylbenzene	0.00	0.0500	0.0437	87.4	0.0500	0.0422	84.4	3.5	75-125	<20
Toluene (Methyl benzene)	0.00	0.0500	0.0448	89.6	0.0500	0.0431	86.2	3.9	75-125	<20
1,1,1-Trichloroethane	0.00	0.0500	0.0373M	74.6	0.0500	0.0362M	72.4	3.0	75-125	<20
1,1,2-Trichloroethane	0.00	0.0500	0.0403	80.6	0.0500	0.0383	76.6	5.1	75-125	<20
Trichloroethene	0.00	0.0500	0.0440	88.0	0.0500	0.0427	85.4	3.0	75-125	<20
1,2,4-Trimethylbenzene	0.00	0.0500	0.0411	82.2	0.0500	0.0392	78.4	4.7	75-125	<20
1,3,5-Trimethylbenzene	0.00	0.0500	0.0420	84.0	0.0500	0.0402	80.4	4.4	75-125	<20
o-Xylene	0.00	0.0500	0.0426	85.2	0.0500	0.0408	81.6	4.3	75-125	<20
m,p-Xylenes	0.00	0.100	0.0882	88.2	0.100	0.0847	84.7	4.0	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0466	93.2	0.0500	0.0466	93.1	<1	75-125	<20
Dibromofluoromethane	0.00	0.0500	0.0474	94.7	0.0500	0.0470	93.9	<1	75-125	<20
Toluene-d8	0.00	0.0500	0.0550	110	0.0500	0.0540	108	1.8	75-125	<20

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QUALITY CONTROL RESULTS

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0318201A1; Dup or Spiked Sample: 104135.01; LCS: Clean Sand; QC Prepared: 03/18/2020; QC Analyzed: 03/18/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	0.0500	0.0421	84.2	0.0500	0.0417	83.4	<1	75-125	<20	
Carbon tetrachloride	0.0500	0.0386	77.2	0.0500	0.0380	76.0	1.6	75-125	<20	
Chlorobenzene	0.0500	0.0476	95.2	0.0500	0.0473	94.6	<1	75-125	<20	
Chloroform (Trichloromethane)	0.0500	0.0399	79.8	0.0500	0.0395	79.0	1.0	75-125	<20	
1,2-Dichlorobenzene	0.0500	0.0456	91.2	0.0500	0.0450	90.0	1.3	75-125	<20	
1,1-Dichloroethane	0.0500	0.0401	80.2	0.0500	0.0395	79.0	1.5	75-125	<20	
1,1-Dichloroethene	0.0500	0.0375	75.0	0.0500	0.0375	75.0	<1	75-125	<20	
cis-1,2-Dichloroethene	0.0500	0.0400	80.0	0.0500	0.0395	79.0	1.3	75-125	<20	
Ethylbenzene	0.0500	0.0462	92.4	0.0500	0.0458	91.6	<1	75-125	<20	
Methyl-tert-butyl ether (MTBE)	0.0500	0.0383	76.6	0.0500	0.0380	76.0	<1	75-125	<20	
n-Propylbenzene	0.0500	0.0440	88.0	0.0500	0.0435	87.0	1.1	75-125	<20	
Toluene (Methyl benzene)	0.0500	0.0472	94.4	0.0500	0.0470	94.0	<1	75-125	<20	
1,1,1-Trichloroethane	0.0500	0.0386	77.2	0.0500	0.0381	76.2	1.3	75-125	<20	
1,1,2-Trichloroethane	0.0500	0.0473	94.6	0.0500	0.0480	96.0	1.5	75-125	<20	
Trichloroethene	0.0500	0.0446	89.2	0.0500	0.0445	89.0	<1	75-125	<20	
1,2,4-Trimethylbenzene	0.0500	0.0425	85.0	0.0500	0.0420	84.0	1.2	75-125	<20	
1,3,5-Trimethylbenzene	0.0500	0.0425	85.0	0.0500	0.0420	84.0	1.2	75-125	<20	
o-Xylene	0.0500	0.0447	89.4	0.0500	0.0445	89.0	<1	75-125	<20	
m,p-Xylenes	0.100	0.0916	91.6	0.100	0.0909	90.9	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0454	90.7	0.0500	0.0460	92.0	1.4	75-125	<20	
Dibromofluoromethane	0.0500	0.0469	93.7	0.0500	0.0465	93.0	<1	75-125	<20	
Toluene-d8	0.0500	0.0535	107	0.0500	0.0540	108	<1	75-125	<20	

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Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 031620PB1; Dup or Spiked Sample: 104053.01; LCS: Clean Sand; QC Prepared: 03/16/2020; QC Analyzed: 03/16/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	16.3	500	507	98.1	500	501	96.9	1.2	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	97.6	97.6	100	97.3	97.3	<1	75-125	<20

QC Batch No: 031620PB1; Dup or Spiked Sample: 104053.01; LCS: Clean Sand; QC Prepared: 03/16/2020; QC Analyzed: 03/16/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	486	97.2	500	480	96.0	1.2	75-125	<20	
Surrogates										
Chlorobenzene	100	96.0	96.0	100	94.1	94.1	2.0	75-125	<20	

American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attn: Ryan Castillo

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Page: 16

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 031320NB2; Dup or Spiked Sample: 104053.02; LCS: Clean Sand; QC Prepared: 03/13/2020;MS AND SD Analyzed: 03/14/2020; LCS Analyzed: 03/13/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.829	82.9	1.00	0.812	81.2	2.1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0520	104	0.0500	0.0550	110	5.6	75-125	<20

QC Batch No: 031320NB2; Dup or Spiked Sample: 104053.02; LCS: Clean Sand; QC Prepared: 03/13/2020;MS AND SD Analyzed: 03/14/2020; LCS Analyzed: 03/13/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.965	96.5	1.00	0.968	96.8	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0585	117	0.0500	0.0585	117	<1	75-125	<20	

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Attn: Ryan Castillo

Site

Commerce Vault
Alexander/Rickenbacker
Commerce, CA

Page: **17**

Project ID: IO# 345264
Project Name: Commerce Vault(Riverside 16kV)

AETL Job Number	Submitted	Client
104053	03/13/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO032520-1; Dup or Spiked Sample: 104204.01; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	25.1	25.4	1.2	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

AGENT SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: **5123 20 4303**

Agent Billing Information

Name: WA RASIC CONSTRUCTION CO INC (ACCT 333339)
Address: 4150 LONG BEACH BLVD
City: LONG BEACH
State: CA Zip: 90807
Phone: 562.928.6111 Fax
Contact: CHRIS GALVIN

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123
14747 SAN FERNANDO ROAD
SYLMAR, CA 91342
818.362.2141

Project: SCE ALEXANDER ST AND RICKENBACKER RD **County and State of Origin:** LOS ANGELES, CA
Generator Address: PO BOX 700 ROSEMEAD, CA 91770
Additional Information: CONTACT: RYAN CASTILLO 626.656.0453

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Agent.

2. **(A) Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Transportation
NON HAZ SOIL	LANDFILL	N/A	N/A

Additional Information: INVOICE AND LATE FEES APPLY
MATERIAL CODE: VG-SW-CONTAMINATED SOIL | PROFILE EXPIRES 3/30/2021 | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL (LOADS MUST BE SCHEDULED 24 HOURS IN ADVANCE).

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 260 TONS Without Prior Approval of Company

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 4/3/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

REPUBLIC SERVICES/COMPAN Edward Antolin

RE REPRESENTATIVE)

SIGNATURE (AUTHORIZED REPRESENTATIVE)
EDWARD ANTOLIN, MESE

NAME AND TITLE (PLEASE PRINT)

NAME AND TITLE (PLEASE PRINT)

4-3-20

DATE

4/3/2020

DATE

Terms and Conditions of Agent Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Agent represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Acceptable Waste to Company, Agent has provided an Application for such Special Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7. Rights of Refusal/Rejection. The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Agent.

11. Driver's Knowledge and Authority. Agent represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (where Agent hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited, to whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the Special Waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

19. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. Liquidated Damages. If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

AGENT: CG REPUBLIC SERVICES/COMPANY: Edward Antolin

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123206633	**Expiration Date** 5/15/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: CAMPO VERDE PACKING

Generator Site Address: 785 S CENTRAL AVE

City: LOS ANGELES	**County:**	**State:** CA	**Zip:**

Name of Waste: CHIPILIN AND HIERBA MORA

Estimated Annual Volume: 500 Pounds

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 5/20/2020

III. Facility Decision: ☒ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** CHRIS COYLE

Date: 5/20/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 6633

Sales Rep #:

I. Generator Information

Generator Name: Campo Verde Packing

Generator Site Address: 785 S Central Ave

City: Los Angeles County: L.A State: California Zip: 90021

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Yolanda Martinez Email: yolanda_m1961@yahoo.com

Phone Number: 310 554 3769 Ext: Fax Number: 213 488 9523

II. Billing Information

Bill To: same as generator Contact Name: Alfredo Juarez

Billing Address: Email:

City: State: --Select State-- Zip: Phone: 213 216 8269

III. Waste Stream Information

Name of Waste: chipilin and Hierba Mora

Process Generating Waste: infested with larva and live insects

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Other

Estimated Volume: 500 Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. 90% Plant	500 LBS
2. 5% Cartons, bagged	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
green	~~n/a~~ None	☐ Yes ☑ No	100%	n/a	n/a °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? ☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? ☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? ☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? ☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. ☐ Yes ☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? ☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31? ☐ Yes ☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. ☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture? ☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products? ☐ Yes ☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? ☐ Yes ☑ No

4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? ☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Yolanda Martinez	Logistics Specialist	Campo Verde Packing
Authorized Representative Name (Printed)	Title (Printed)	Company Name
Representative Signature		5/15/2020
		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 6633

Generator Billing Information		Republic Waste Location (Company)
Name:	CAMPO VERDE PACKING (ACCT 321 CASH)	SUNSHINE CANYON LANDFILL (5123)
Address:	785 S CENTRAL AVE	14747 SAN FERNANDO RD
		SYLMAR, CA 91342
City:	LOS ANGELES	818.362.2141
State:	CA Zip: 90021	
Phone:	310.554.3769 Fax:	
Contact:	YOLANDA MARTINEZ	

Project: FOOD PRODUCTS—CHIPILIN/HIERBA MORA **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
			TAXES, ERF, FRF APPLY|CERT OF DESTRUCTION	
FOOD PRODUCTS	LANDFILL	[illegible]		N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: ENVIRONMENTAL RECOVERY FEE (ERF [illegible] ON VOLUME AT TIME OF DISPOSAL (PER [illegible] OAD | FUEL RECOVER FEE (FRF [illegible] INVOICE AND LATE FEES MAY A[illegible] CALCULATED [illegible] COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL | CERT OF DESTRUCTION PROVIDED AND BILLED ON REQUEST

PROFILE EXPIRES 05/15/2021 | MATERIAL CODE XD-FOOD WASTE | EAV 500 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 500 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference**. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 05/19/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR	REPUBLIC SERVICES/COMPANY
SIGNATURE (AUTHORIZED REPRESENTATIVE)	SIGNATURE (AUTHORIZED REPRESENTATIVE)
Yolanda Martinez Logistics Specialist	NAME AND TITLE (PLEASE PRINT)
NAME AND TITLE (PLEASE PRINT)	
5/20/2020	
DATE	DATE

Terms and Conditions of Special Waste Service Agreement

1. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

2. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

3. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranty or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or lapse, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin _____ December 2018

AGENT SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: **5123 20 7237**

Agent Billing Information

Name: CUNNINGHAM DAVIS CORP (CASH ACCT 321)
Address: PO BOX 729
City: CALIMESA
State: CA Zip: 92320
Phone: 909.800.2574 Fax:
Contact: ARMANDO RODRIGUEZ

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123
14747 SAN FERNANDO ROAD
SYLMAR, CA 91342
818.362.2141

Project: SCE CULVER CITY SUBSTATION, 4080 OVERLAND, CULVER CITY
County and State of Origin: LOS ANGELES, CA
Generator Address: 2444 WALNUT GROVE, ROSEMEAD
Additional Information: CONTACT: CHRISTNE BRENDLE 949.939.4966

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Agent.

2. **(A) Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
NON HAZ SOIL	LANDFILL		TAXES, ERF, FRF APPLY	N/A

Additional Information: PROFILE EXPIRES 06/01/2021 | MATERIAL CODE VG-CONT SOIL | EAV 40 TONS
ENVIRONMENTAL RECOVERY FEE (ERF) LOAD | FUEL RECOVER FEE (FRF) CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 40 TONS Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 06/03/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

AGENT

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Armando Rodriguez (P.M)
NAME AND TITLE (PLEASE PRINT)

6/9/2020
DATE

REPUBLIC SERVICES/COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN MESE
NAME AND TITLE (PLEASE PRINT)

6/9/2020
DATE

Terms and Conditions of Agent Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Agent represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Acceptable Waste to Company, Agent has provided an Application for such Special Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Agent.

7. Rights of Refusal/Rejection. The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Agent.

11. Driver's Knowledge and Authority. Agent represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (where Agent hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobi Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall n thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice ha been given to Company. With the exception of workers' compensation, Company shall be shown as addition insureds under all of the insurance policies required by this Section 13. The policies required by this Section 1 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waiv their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall b liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable contro including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes i law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natur resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in th preceding sentence, including, but not limited, to whether any federal, state or local court or governmental authori takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit th disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Acceptab Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's acces to the Facility immediately, without prior notice and without any additional liabilities between the parties, other tha Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against i own best judgment.

15. Assignment. Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provide however, that the Company may without any such prior written consent, assign its rights and/or obligations under th Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith

17. Continuing Compliance. The Agent has a continuing obligation to inform the Company of any new information, information not previously provided to the Company by Agent and/or Generator which may affect the acceptability the waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing nev updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that th Special Waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of th Agreement or, (iv) allow the Company to re-sample the waste at Agent's expense if reasonable cause exists as to i acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of th Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law regulation any information (including any technical information, experience or date) regarding the Company plans, programs, plants, processes, products, costs, equipment or operations which may come within th knowledge of the Agent or its employees in the performance of this Agreement, without in each instanc securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to suc term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any pri agreements between the parties, and shall be binding upon all parties hereto, their successors, heir representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order other response by Agent which is in addition to or different from the provisions of this Agreement shall b deemed objected to by the Company and shall be of no effect.

(G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, compliance with and will perform its obligations pursuant to all applicable laws and regulations and sha indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is n an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of th parties that Agent is an authorized representative of Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates subcontractors, provided that Company shall remain responsible for the performance of all such services ar obligations in accordance with this Agreement

19. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been give upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address here set forth in this Agreement or to such other address as may be given to the other party in writing.

20. Liquidated Damages. If Agent terminates this Agreement before its expiration other than as a result of a breach b Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by th lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is th best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph sha be in addition to amounts already owing under this Agreement.

AGENT: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123207237	**Expiration Date** 6/1/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: SOUTHERN CALIFORNIA EDISON-CULVER CITY SUBSTATION			
Generator Site Address: 4080 OVERLAND AVE			
City: CULVER CITY	**County:**	**State:** CA	**Zip:**
Name of Waste: SOIL			
Estimated Annual Volume: 40 Cubic Yards			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Joseph M. Sorokach **Name (Printed):** Joseph Sorokach

Date: 6/3/2020

III. Facility Decision: ☐ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 6/3/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 7237

Sales Rep #:

I. Generator Information

Generator Name: Southern California Edison - Culver City Substation

Generator Site Address: 4080 Overland Avenue

City: Culver City | County: Los Angeles | State: California | Zip: 90232

State ID/Reg No: NA | State Approval/Waste Code: NA | NAICS #: NA

Generator Mailing Address ☑ (if different) 2244 Walnut Grove

City: Rosemead | County: Los Angeles | State: California | Zip: 91770

Generator Contact Name: Christine Brendle | Email: christine.brendle@sce.com

Phone Number: (949) 939-4966 | Ext: | Fax Number: NA

II. Billing Information

Bill To: Cunningham Davis Corp | Contact Name: Armando Rodriguez

Billing Address: PO Box 729 | Email: cdcorp@verizon.net

City: Calimesa | State: California | Zip: 92320 | Phone: 909-800-2574

III. Waste Stream Information

Name of Waste: Soil

Process Generating Waste: Circuit breaker replacement. Equipment and concrete foundations were removed, and soil was overexcavated and compacted for new foundations.

Type of Waste: Pollution Control Waste | Physical State: Solid | Method of Shipment: Bulk

Estimated Volume: 40 | Volume Type: Cubic Yards

Frequency: One-time Event (single project) | Disposal Consideration: Landfill

IV. Representative Sample Certification

☐ **No Sample Taken**

☑ **Sample Taken** **Type of Sample** Composite and Grab

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☑ **Yes** ☐ **No**

Sample Date: May 12, 2020

Sample ID Numbers or SDS: HA1-0.5, HA1-2.0, HA1-Comp, HA2-0.5, HA2-2.0, HA2-Comp, HA3-0.5, HA3-2.0, HA3-Comp, HA4-0.5, HA4-2.0, HA4-Comp, HA5-0.5, HA5-2.0, and HA5-Comp,

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Soil - impacted by Arsenic >12 ppm but <50 ppm	10
2. Soil - Non-contaminated	90
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
Brown	None	☐ Yes ☑ No	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1.	Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes ☑ No
2.	Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes ☑ No
3.	Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes ☑ No
4.	Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes ☑ No
5.	Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes ☑ No
6.	Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?	☐ Yes ☑ No
7.	Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes ☑ No
8.	Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
9.	Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes ☑ No
10.	Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes ☑ No

Republic Services Waste Handling Questions

1.	Does this waste generate heat or react when contacted with water/moisture?	☐ Yes ☑ No
2.	Does the waste contain sulfur or sulfur by-products?	☐ Yes ☑ No
3.	Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes ☑ No
4a.	Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?	☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Christine Brendle	Project Manager - Waste Character	Southern California Edison
Authorized Representative Name (Printed)	Title (Printed)	Company Name

	June 1, 2020
Representative Signature	Date

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Christine Brendle

Number of Pages 28
Date Received 05/12/2020
Date Reported 05/19/2020

Job Number	Order Date	Client
104744	05/12/2020	SCE

Project ID: IO# 345478
Project Name: Culver City Sub. CBs
Site: Culver City Substation
4080 Overland Ave.
Culver City, CA

Enclosed please find results of analyses of 10 discrete soil, 5 composite soil, 3 concrete and 1 asphalt samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. 104744 119979

COMPANY: Northgate for SCE
PROJECT MANAGER: Christine Brendle, Soni Fisher
COMPANY ADDRESS: 24411 Ridge Route Dr., Laguna Hills
PHONE: (949) 310-6024
EMAIL:
PROJECT NAME: Culver City Sub CBS
PROJECT #: IO # 345478, SAP # 902742419
SITE NAME AND ADDRESS: Culver City Substation, 4080 Overland Ave., Culver City
PO #:

ANALYSIS REQUESTED: PCBs - EPA 8082

TEST INSTRUCTIONS & COMMENTS: PQL for PCBs = 1.0 mg/kg

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBs - EPA 8082	TEST INSTRUCTIONS & COMMENTS
1	C1	104744.01	5/12/20	1105	concrete	1/4oz	ice	X	WCI
2	C2	104744.02	↓	1115	↓	↓	↓	X	
3	C3	104744.03	↓	1130	↓	↓	↓	X	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

TOTAL NUMBER OF CONTAINERS: 3

BILLING INFORMATION / SPECIAL INSTRUCTIONS:

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Cem	Signature:	Signature:
Printed Name: CEM KAMALI	Printed Name:	Printed Name:
Date: 5/12/20 Time: 1300	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Ait
Date: Time:	Date: Time:	Date: 05/12/20 Time: 1300

TURN AROUND TIME:
- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☒ NEXT DAY RUSH
- ☐ 2 DAYS RUSH
- ☐ 3 DAYS RUSH
- ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED:
- ☐ HARD COPY
- ☐ E-COPY
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

American Environmental Testing Laboratory

2834 & 2908 North Naomi Street, Burbank, CA 91504. Telephone (818) 845-8200. Fax (818) 845-8840

Job Number	Order Date	Client
104744	05/12/2020	SCE

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Attn: Christine Brendle Telephone: (909)274-1646

Site

Culver City Substation
4080 Overland Ave.
Culver City, CA

Project ID IO# 345478
Project Name Culver City Sub. CBs

104744.27	HA5-COMP	05/12/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ SCE-C13C40	05/19/2020	2	Normal	mg/Kg
(M8015G) ^ SCE-C4-C12	05/19/2020	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
MBSI	Method Blank	05/12/2020	Solid	1
104744.28	AC1	05/12/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	05/19/2020	2	Normal	mg/Kg
(8082) ^ SCE-1PPM	05/19/2020	2	Normal	mg/Kg
ASTM-D2216	05/19/2020	2	Normal	% wt

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104744.01	C1	05/12/2020	Solid	1
104744.02	C2	05/12/2020	Solid	1
104744.03	C3	05/12/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ SCE-1PPM	05/19/2020	2	Normal	mg/Kg
ASTM-D2216	05/19/2020	2	Normal	% wt

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP # 1541 LACSD# 10181
TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. 104744 119980

COMPANY: Northgate for SCE
PROJECT MANAGER: Christine Brendle, Joni Fisher
COMPANY ADDRESS: 24411 Ridge Route Dr, Laguna Hills
PHONE: (949) 310-6024
EMAIL:
PROJECT NAME: Culver City Sub CBs
PROJECT #: Io # 345478, SAP# 902742419
SITE NAME AND ADDRESS: Culver City Substation, 4080 Overland Ave., Culver City
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBs-EPA 8082	TPH-8015B *	Title 22 Metals *	VOCs-8260B	TEST INSTRUCTIONS & COMMENTS
												PQL for PCBs = 1.0 mg/kg; * Lab composite samples for all depths for separate borings. Do not composite for PCBs; WCI
1	HA1-0.5'	104744.04	5/12/20	0805	Soil	1/8 oz	ICE	X				
2	HA1-2.0'	104744.05	↓	0810	↓	↓	↓	X				
3	HA1-3.5'	104744.06	↓	0815	↓	↓	↓					HOLD for PCBs
4	HA1-5.0'	104744.07	↓	0820	↓	↓	↓					HOLD for PCBs
5	HA1-Comp	104744.08	↓	↓	↓	↓	↓		X	X		
6	HA2-0.5'	104744.09	↓	0840	↓	↓	↓	X				
7	HA2-2.0'	104744.10	↓	0845	↓	↓	↓	X				
8	HA2-3.5'	104744.11	↓	0850	↓	↓	↓					HOLD for PCBs
9	HA2-5.0'	104744.12	↓	0855	↓	↓	↓					HOLD for PCBs
10	HA2-Comp	104744.13	↓	↓	↓	↓	↓		X	X		
11	HA3-0.5'	104744.14	↓	0930	↓	↓	↓	X				
12	HA3-2.0'	104744.15	↓	0935	↓	↓	↓	X				
13	HA3-3.5'	104744.16	↓	0940	↓	↓	↓					Hold for PCBs
14	HA3-5.0'	104744.17	↓	0945	↓	↓	↓					Hold for PCBs
15	HA3-Comp	104744.18	↓	↓	↓	↓	↓		X	X		

TOTAL NUMBER OF CONTAINERS: 12

BILLING INFORMATION / SPECIAL INSTRUCTIONS

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature: Cem		
	Printed Name: CEM KAMALI		
	Date: 5/12/20 Time: 1300		
RECEIVED BY:	Signature:	Signature:	
	Printed Name:	Printed Name:	
	Date: Time:	Date: Time:	
RELINQUISHED BY:			
	Signature:	Signature:	
	Printed Name:	Printed Name:	
	Date: Time:	Date: Time:	
RECEIVED BY: LABORATORY: AETL	Signature:	Signature:	
	Printed Name:	Printed Name:	
	Date: Time:	Date: Time:	Date: 05/12/20 Time: 1300

TURN AROUND TIME
- [x] NORMAL
- [ ] SAME DAY RUSH
- [ ] NEXT DAY RUSH
- [ ] 2 DAYS RUSH
- [ ] 3 DAYS RUSH
- [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
- [ ] HARD COPY
- [ ] E-COPY
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB NO. 104744 119981

COMPANY: Northgate for SCE
COMPANY ADDRESS: 24411 Ridge Route Dr., Laguna Hills
PROJECT NAME: Culver City Sub CBS
SITE NAME AND ADDRESS: Culver City Substation, 4080 Overland Ave., Culver City
PROJECT MANAGER: Christine Brendle, Joni Fisher
PHONE: (949) 310-6024
EMAIL:
PROJECT #: JO # 345478, SAP # 902742419
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBs - EPA 8082	TPH - 8015B *	Title 22 Metals *	VOCs - 8260B	TEST INSTRUCTIONS & COMMENTS
												PQL for PCBs = 1.0 mg/kg * Lab composite samples for all depths for separate borings. Do not composite for PCBs WCJ
1	HA4-0.5'	104744.19	5/12/20	1000	Soil	1/8oz	Ice	X				
2	HA4-2.0'	104744.20	↓	1005	↓	↓	↓	X				
3	HA4-3.5'	104744.21	↓	1010	↓	↓	↓					Hold for PCBs
4	HA4-5.0'	104744.22	↓	1015	↓	↓	↓					Hold for PCBs
5	HA4-Comp	104744.23	↓	↓	↓	↓	↓		X	X		
6	HA5-0.5'	104744.24	↓	1030	↓	↓	↓	X				
7	HA5-1.5'	104744.25	↓	1035	↓	↓	↓	X				
8	HA5-2.5'	104744.26	↓	1040	↓	↓	↓					Hold for PCBs
9	HA5-Comp	104744.27	↓	↓	↓	↓	↓		X	X		
10	AC1	104744.28	↓	1210	Asphalt	2/8oz	↓	X		X		
11												
12												
13												
14												
15												

TOTAL NUMBER OF CONTAINERS: 8

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Cem	Signature:	Signature:
Printed Name: CEM KAMALI	Printed Name:	Printed Name:
Date: 5/12/20 Time: 1300	Date: Time:	Date: Time:
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3. AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: Time:	Date: Time:	Date: 05/12/20 Time: 1300

TURN AROUND TIME: [X] NORMAL [ ] SAME DAY RUSH [ ] NEXT DAY RUSH [ ] 2 DAYS RUSH [ ] 3 DAYS RUSH [ ] 4 DAYS RUSH

DATA DELIVERABLE REQUIRED: [ ] HARD COPY [ ] E-COPY [ ] GEOTRACKER (GLOBAL ID) ____ [ ] OTHER (PLEASE SPECIFY) ____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: Edison
Project Name:
AETL Job Number: 104744
Date Received: 05/12/20 Received by: [illegible]
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.2°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): _____
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
☒ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:

_____
_____
_____
_____

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Christine Brendle

Project ID: IO# 345478
Date Received 05/12/2020
Date Reported 05/19/2020

Job Number	Order Date	Client
104744	05/12/2020	SCE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 28 samples with the following specification on 05/12/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104744.04	HA1-0.5'	05/12/2020	Soil	1
104744.05	HA1-2.0'	05/12/2020	Soil	1
104744.09	HA2-0.5'	05/12/2020	Soil	1
104744.10	HA2-2.0'	05/12/2020	Soil	1
104744.14	HA3-0.5'	05/12/2020	Soil	1
104744.15	HA3-2.0'	05/12/2020	Soil	1
104744.19	HA4-0.5'	05/12/2020	Soil	1
104744.20	HA4-2.0'	05/12/2020	Soil	1
104744.24	HA5-0.5'	05/12/2020	Soil	1
104744.25	HA5-1.5'	05/12/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ SCE-1PPM	05/19/2020	2	Normal	mg/Kg
ASTM-D2216	05/19/2020	2	Normal	% wt

104744.06	HA1-3.5'	05/12/2020	Soil	1
104744.07	HA1-5.0'	05/12/2020	Soil	1
104744.11	HA2-3.5'	05/12/2020	Soil	1
104744.12	HA2-5.0'	05/12/2020	Soil	1
104744.16	HA3-3.5'	05/12/2020	Soil	1
104744.17	HA3-5.0'	05/12/2020	Soil	1
104744.21	HA4-3.5'	05/12/2020	Soil	1
104744.22	HA4-5.0'	05/12/2020	Soil	1
104744.26	HA5-2.5'	05/12/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	05/19/2020	2	Normal	--

104744.08	HA1-COMP	05/12/2020	Soil	1

Continued

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Ordered By

Southern California Edison Company
1 Innovation Way
Pomona, CA 91768-

Telephone: (909)274-1646
Attention: Christine Brendle

Project ID: IO# 345478
Date Received 05/12/2020
Date Reported 05/19/2020

Job Number	Order Date	Client
104744	05/12/2020	SCE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

104744.13	HA2-COMP	05/12/2020	Soil	1
104744.18	HA3-COMP	05/12/2020	Soil	1
104744.23	HA4-COMP	05/12/2020	Soil	1
104744.27	HA5-COMP	05/12/2020	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	05/19/2020	2	Normal	mg/Kg
(M8015D) ^ SCE-C13C40	05/19/2020	2	Normal	mg/Kg
(M8015G) ^ SCE-C4-C12	05/19/2020	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
104744.01	C1	05/12/2020	Solid	1
104744.02	C2	05/12/2020	Solid	1
104744.03	C3	05/12/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ SCE-1PPM	05/19/2020	2	Normal	mg/Kg
ASTM-D2216	05/19/2020	2	Normal	% wt

104744.28	AC1	05/12/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	05/19/2020	2	Normal	mg/Kg
(8082) ^ SCE-1PPM	05/19/2020	2	Normal	mg/Kg
ASTM-D2216	05/19/2020	2	Normal	% wt

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results for PCB of soil and solid samples are based on dry weight.

Checked By: _____ Approved By: _____

Joe Sevrean
Laboratory Director

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Culver City, CA

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Page: 2

Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C3

Our Lab I.D.			Method Blank	**104744.08**	**104744.13**	**104744.18**	**104744.23**
Client Sample I.D.				HA1-COMP	HA2-COMP	HA3-COMP	HA4-COMP
Date Sampled				05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/14/2020	05/14/2020	05/14/2020	05/14/2020	05/14/2020
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			05/15/2020	05/15/2020	05/15/2020	05/15/2020	05/15/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	14.4	40.5	8.03	5.55
Barium	5.0	5.0	ND	122	123	137	92.0
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	4.26	4.48	4.38	3.10
Chromium	5.0	5.0	ND	31.4	29.5	29.6	20.1
Cobalt	5.0	5.0	ND	10.2	9.43	12.3	7.41
Copper	5.0	5.0	ND	27.5	80.7	58.9	15.6
Lead	5.0	5.0	ND	21.3	42.7	19.4	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	ND	20.5	24.0	20.4	13.5
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	61.0	59.8	51.7	47.6
Zinc	5.0	5.0	ND	118	180	892	59.1

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C3

Our Lab I.D.			**104744.27**				
Client Sample I.D.			HA5-COMP				
Date Sampled			05/12/2020				
Date Prepared			05/14/2020				
Preparation Method			3050B				
Date Analyzed			05/15/2020				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Antimony	5.0	5.0	ND				
Arsenic	2.5	2.5	11.3				
Barium	5.0	5.0	120				
Beryllium	2.5	2.5	ND				
Cadmium	2.5	2.5	3.62				
Chromium	5.0	5.0	23.9				
Cobalt	5.0	5.0	8.34				
Copper	5.0	5.0	24.1				
Lead	5.0	5.0	26.1				
Mercury (By EPA 7471)	0.2	0.2	ND				
Molybdenum	5.0	5.0	ND				
Nickel	5.0	5.0	17.0				
Selenium	5.0	5.0	ND				
Silver	5.0	5.0	ND				
Thallium	5.0	5.0	ND				
Vanadium	5.0	5.0	48.4				
Zinc	5.0	5.0	118				

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C2

Our Lab I.D.			Method Blank	**104744.28**			
Client Sample I.D.				AC1			
Date Sampled				05/12/2020			
Date Prepared			05/14/2020	05/14/2020			
Preparation Method			3050B	3050B			
Date Analyzed			05/15/2020	05/15/2020			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	5.0	5.0	ND	ND			
Arsenic	2.5	2.5	ND	ND			
Barium	5.0	5.0	ND	71.5			
Beryllium	2.5	2.5	ND	ND			
Cadmium	2.5	2.5	ND	ND			
Chromium	5.0	5.0	ND	5.99			
Cobalt	5.0	5.0	ND	5.50			
Copper	5.0	5.0	ND	12.0			
Lead	5.0	5.0	ND	ND			
Mercury (By EPA 7471)	0.2	0.2	ND	ND			
Molybdenum	5.0	5.0	ND	ND			
Nickel	5.0	5.0	ND	10.8			
Selenium	5.0	5.0	ND	ND			
Silver	5.0	5.0	ND	ND			
Thallium	5.0	5.0	ND	ND			
Vanadium	5.0	5.0	ND	29.3			
Zinc	5.0	5.0	ND	30.3			

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1

Our Lab I.D.			Method Blank	**104744.01**	**104744.02**	**104744.03**	
Client Sample I.D.				C1	C2	C3	
Date Sampled				05/12/2020	05/12/2020	05/12/2020	
Date Prepared			05/13/2020	05/13/2020	05/13/2020	05/13/2020	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			05/13/2020	05/13/2020	05/13/2020	05/13/2020	
Matrix			Solid	Solid	Solid	Solid	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	**104744.01**	**104744.02**	**104744.03**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		78.0	84.4	84.8	86.4	
Tetrachloro-m-xylene	30-150		91.6	96.0	101	97.2	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1S

Our Lab I.D.			Method Blank	**104744.04**	**104744.05**	**104744.09**	**104744.10**
Client Sample I.D.				HA1-0.5'	HA1-2.0'	HA2-0.5'	HA2-2.0'
Date Sampled				05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**104744.04**	**104744.05**	**104744.09**	**104744.10**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		78.0	89.6	107	100	103
Tetrachloro-m-xylene	30-150		85.6	108	136	126	150

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Site

Culver City Substation
4080 Overland Ave.
Culver City, CA

Page: **7**

Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1S

Our Lab I.D.			**104744.14**	**104744.15**	**104744.19**	**104744.20**	**104744.24**
Client Sample I.D.			HA3-0.5'	HA3-2.0'	HA4-0.5'	HA4-2.0'	HA5-0.5'
Date Sampled			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			**104744.14**	**104744.15**	**104744.19**	**104744.20**	**104744.24**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		96.0	95.2	105	108	102
Tetrachloro-m-xylene	30-150		145	150	141	105	128

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1S

Our Lab I.D.			**104744.25**				
Client Sample I.D.			HA5-1.5'				
Date Sampled			05/12/2020				
Date Prepared			05/13/2020				
Preparation Method			3550B				
Date Analyzed			05/13/2020				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	1.0	1.0	ND				
Aroclor-1221 (PCB-1221)	1.0	1.0	ND				
Aroclor-1232 (PCB-1232)	1.0	1.0	ND				
Aroclor-1242 (PCB-1242)	1.0	1.0	ND				
Aroclor-1248 (PCB-1248)	1.0	1.0	ND				
Aroclor-1254 (PCB-1254)	1.0	1.0	ND				
Aroclor-1260 (PCB-1260)	1.0	1.0	ND				
Aroclor-1262 (PCB-1262)	1.0	1.0	ND				
Aroclor-1268 (PCB-1268)	1.0	1.0	ND				
Our Lab I.D.			**104744.25**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		80.8				
Tetrachloro-m-xylene	30-150		95.6				

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1A

Our Lab I.D.			Method Blank	**104744.28**			
Client Sample I.D.				AC1			
Date Sampled				05/12/2020			
Date Prepared			05/13/2020	05/13/2020			
Preparation Method			3550B	3550B			
Date Analyzed			05/13/2020	05/13/2020			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND			
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND			
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND			
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND			
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND			
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND			
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND			
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND			
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND			
Our Lab I.D.			Method Blank	**104744.28**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		78.0	101			
Tetrachloro-m-xylene	30-150		85.6	74.4			

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1

Our Lab I.D.			104744.01	104744.02	104744.03		
Client Sample I.D.			C1	C2	C3		
Date Sampled			05/12/2020	05/12/2020	05/12/2020		
Date Prepared			05/12/2020	05/12/2020	05/12/2020		
Preparation Method			ASTMD2216	ASTMD2216	ASTMD2216		
Date Analyzed			05/13/2020	05/13/2020	05/13/2020		
Matrix			Solid	Solid	Solid		
Units			% wt	% wt	% wt		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Moisture Content	0.1	0.1	2.45	5.29	3.33		

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1

Our Lab I.D.			**104744.04**	**104744.05**	**104744.09**	**104744.10**	**104744.14**
Client Sample I.D.			HA1-0.5'	HA1-2.0'	HA2-0.5'	HA2-2.0'	HA3-0.5'
Date Sampled			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Preparation Method			ASTMD2216	ASTMD2216	ASTMD2216	ASTMD2216	ASTMD2216
Date Analyzed			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	10.0	15.6	15.3	15.5	15.7

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1

Our Lab I.D.			104744.15	104744.19	104744.20	104744.24	104744.25
Client Sample I.D.			HA3-2.0'	HA4-0.5'	HA4-2.0'	HA5-0.5'	HA5-1.5'
Date Sampled			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Preparation Method			ASTMD2216	ASTMD2216	ASTMD2216	ASTMD2216	ASTMD2216
Date Analyzed			05/13/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			% wt	% wt	% wt	% wt	% wt
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Moisture Content	0.1	0.1	18.4	17.3	16.0	12.4	13.9

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1

Our Lab I.D.			**104744.28**				
Client Sample I.D.			AC1				
Date Sampled			05/12/2020				
Date Prepared			05/12/2020				
Preparation Method			ASTMD2216				
Date Analyzed			05/13/2020				
Matrix			Solid				
Units			% wt				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Moisture Content	0.1	0.1	0.290				

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 051220OB1

Our Lab I.D.			Method Blank	**104744.08**	**104744.13**	**104744.18**	**104744.23**
Client Sample I.D.				HA1-COMP	HA2-COMP	HA3-COMP	HA4-COMP
Date Sampled				05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Preparation Method			5030	5030	5030	5030	5030
Date Analyzed			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**104744.08**	**104744.13**	**104744.18**	**104744.23**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		106	109	108	108	107

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 051220OB1

Our Lab I.D.			**104744.27**				
Client Sample I.D.			HA5-COMP				
Date Sampled			05/12/2020				
Date Prepared			05/12/2020				
Preparation Method			5030				
Date Analyzed			05/12/2020				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND				
Our Lab I.D.			**104744.27**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		108				

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 051220DB1

Our Lab I.D.			Method Blank	**104744.08**	**104744.13**	**104744.18**	**104744.23**
Client Sample I.D.				HA1-COMP	HA2-COMP	HA3-COMP	HA4-COMP
Date Sampled				05/12/2020	05/12/2020	05/12/2020	05/12/2020
Date Prepared			05/12/2020	05/12/2020	05/12/2020	05/12/2020	05/12/2020
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			05/12/2020	05/13/2020	05/13/2020	05/13/2020	05/13/2020
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	10.0	10.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**104744.08**	**104744.13**	**104744.18**	**104744.23**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		84.9	87.6	86.2	88.0	86.1

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 051220DB1

Our Lab I.D.			**104744.27**				
Client Sample I.D.			HA5-COMP				
Date Sampled			05/12/2020				
Date Prepared			05/12/2020				
Preparation Method			3550B				
Date Analyzed			05/13/2020				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	10.0	10.0	ND				
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND				
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND				
Our Lab I.D.			**104744.27**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		87.1				

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C3; Dup or Spiked Sample: 104747.01; LCS: Clean Sand; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	45.8	91.6	50.0	46.5	93.0	1.5	75-125	<15
Arsenic	23.5	50.0	82.5	118	50.0	82.0	117	<1	75-125	<15
Barium	37.4	50.0	95.9	117	50.0	95.4	116	<1	75-125	<15
Beryllium	0.00	50.0	47.1	94.2	50.0	46.3	92.6	1.7	75-125	<15
Cadmium	2.68	50.0	41.5	77.6	50.0	41.9	78.4	1.0	75-125	<15
Chromium	14.1	50.0	57.9	87.6	50.0	58.4	88.6	1.1	75-125	<15
Cobalt	0.00	50.0	44.7	89.4	50.0	45.1	90.2	<1	75-125	<15
Copper	15.9	50.0	65.6	99.4	50.0	65.6	99.4	<1	75-125	<15
Lead	0.00	50.0	43.0	86.0	50.0	43.1	86.2	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.412	82.4	0.500	0.416	83.2	<1	75-125	<15
Molybdenum	0.00	50.0	43.9	87.8	50.0	44.4	88.8	1.1	75-125	<15
Nickel	9.55	50.0	47.5	75.9	50.0	47.7	76.3	<1	75-125	<15
Selenium	0.00	50.0	37.3 M	74.6	50.0	37.2 M	74.4	<1	75-125	<15
Silver	0.00	50.0	47.1	94.2	50.0	46.9	93.8	<1	75-125	<15
Thallium	0.00	50.0	32.7 M	65.4	50.0	33.6 M	67.2	2.7	75-125	<15
Vanadium	30.6	50.0	82.1	103	50.0	82.1	103	<1	75-125	<15
Zinc	50.0	50.0	98.8	97.6	50.0	99.4	98.8	1.2	75-125	<15

QC Batch No: 0514202C3; Dup or Spiked Sample: 104747.01; LCS: Clean Sand; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	52.5	105	50.0	54.5	109	3.7	75-125	<15	
Arsenic	50.0	53.5	107	50.0	55.5	111	3.7	75-125	<15	
Barium	50.0	52.0	104	50.0	53.0	106	1.9	75-125	<15	
Beryllium	50.0	52.5	105	50.0	52.0	104	<1	75-125	<15	
Cadmium	50.0	52.0	104	50.0	53.0	106	1.9	75-125	<15	
Chromium	50.0	53.5	107	50.0	54.5	109	1.9	75-125	<15	
Cobalt	50.0	53.0	106	50.0	54.0	108	1.9	75-125	<15	
Copper	50.0	53.0	106	50.0	54.0	108	1.9	75-125	<15	
Lead	50.0	52.5	105	50.0	54.0	108	2.8	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C3; Dup or Spiked Sample: 104747.01; LCS: Clean Sand; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.409	82.5	0.500	0.410	85.5	3.6	75-125	<15	
Molybdenum	50.0	53.0	106	50.0	54.0	108	1.9	75-125	<15	
Nickel	50.0	50.5	101	50.0	51.5	103	2.0	75-125	<15	
Selenium	50.0	49.5	99.0	50.0	48.4	96.8	2.2	75-125	<15	
Silver	50.0	52.0	104	50.0	53.0	106	1.9	75-125	<15	
Thallium	50.0	54.0	108	50.0	55.0	110	1.8	75-125	<15	
Vanadium	50.0	54.0	108	50.0	55.0	110	1.8	75-125	<15	
Zinc	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<15	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.1	96.2	50.0	49.3	98.6	2.5	75-125	<15
Arsenic	0.00	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15
Barium	71.5	50.0	111	79.0	50.0	115	87.0	9.6	75-125	<15
Beryllium	0.00	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15
Cadmium	0.00	50.0	51.0	102	50.0	49.5	99.0	3.0	75-125	<15
Chromium	5.99	50.0	55.9	99.8	50.0	56.5	101	1.2	75-125	<15
Cobalt	5.50	50.0	54.9	98.8	50.0	55.3	99.6	<1	75-125	<15
Copper	12.0	50.0	64.5	105	50.0	66.5	109	3.7	75-125	<15
Lead	0.00	50.0	49.6	99.2	50.0	49.9	99.8	<1	75-125	<15
Mercury (By EPA 7471)	0.00500	0.500	0.355M	70.0	0.500	0.366M	72.2	3.1	75-125	<15
Molybdenum	0.00	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15
Nickel	10.8	50.0	59.0	96.4	50.0	59.5	97.4	1.0	75-125	<15
Selenium	0.00	50.0	44.0	88.0	50.0	45.8	91.6	4.0	75-125	<15
Silver	0.00	50.0	47.6	95.2	50.0	49.2	98.4	3.3	75-125	<15
Thallium	0.00	50.0	41.9	83.8	50.0	41.6	83.2	<1	75-125	<15
Vanadium	29.8	50.0	80.3	101	50.0	82.8	106	4.8	75-125	<15
Zinc	30.3	50.0	79.2	97.8	50.0	79.3	98.0	<1	75-125	<15

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15	
Arsenic	50.0	53.0	106	50.0	52.0	104	1.9	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<15	
Cadmium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Chromium	50.0	53.5	107	50.0	52.5	105	1.9	75-125	<15	
Cobalt	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Copper	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Lead	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.409M	81.8	0.500	0.410M	82.0	<1	75-125	<15	
Molybdenum	50.0	52.5	105	50.0	51.5	103	1.9	75-125	<15	
Nickel	50.0	49.4	98.8	50.0	49.6	99.2	<1	75-125	<15	
Selenium	50.0	48.8	97.6	50.0	48.1	96.2	1.4	75-125	<15	
Silver	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Thallium	50.0	53.5	107	50.0	53.0	106	<1	75-125	<15	
Vanadium	50.0	52.5	105	50.0	53.0	106	<1	75-125	<15	
Zinc	50.0	54.5	109	50.0	51.0	102	6.6	75-125	<15	

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Site

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1S; Dup or Spiked Sample: 104747.02; LCS: Clean Sand; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.369	73.8	0.500	0.413	82.6	11.3	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.350	70.0	0.500	0.347	69.4	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0206	82.4	0.0250	0.0210	84.0	1.9	30-150	<20
Tetrachloro-m-xylene	0.00	0.0250	0.0140	56.0	0.0250	0.0194	77.6	32.3	30-150	<20

QC Batch No: 051320ZB1S; Dup or Spiked Sample: 104747.02; LCS: Clean Sand; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	0.500	0.390	78.6	0.500	0.430	85.8	8.8	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.410	81.8	0.500	0.400	80.4	1.7	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0250	0.0230	92.0	0.0250	0.0211	84.4	8.6	30-150	<20	
Tetrachloro-m-xylene	0.0250	0.0224	89.6	0.0250	0.0273	109	19.5	30-150	<20	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 051220DB1; Dup or Spiked Sample: 104718.05; LCS: Clean Sand; QC Prepared: 05/12/2020; QC Analyzed: 05/12/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	414	82.8	500	408	81.6	1.5	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	82.0	82.0	100	80.1	80.1	2.3	75-125	<20

QC Batch No: 051220DB1; Dup or Spiked Sample: 104718.05; LCS: Clean Sand; QC Prepared: 05/12/2020; QC Analyzed: 05/12/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	415	83.0	500	420	84.0	1.2	75-125	<20	
Surrogates										
Chlorobenzene	100	82.3	82.3	100	81.1	81.1	1.5	75-125	<20	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 051220OB1; Dup or Spiked Sample: 104747.01AG; LCS: Clean Sand; QC Prepared: 05/12/2020; QC Analyzed: 05/12/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.864	86.4	1.00	0.827	82.7	4.4	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0515	103	0.0500	0.0520	104	<1	75-125	<20

QC Batch No: 051220OB1; Dup or Spiked Sample: 104747.01AG; LCS: Clean Sand; QC Prepared: 05/12/2020; QC Analyzed: 05/12/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.839	83.9	1.00	0.833	83.3	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0525	105	0.500	0.505	101	3.9	75-125	<20	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1; Dup or Spiked Sample: 104704.25; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	9.24	8.39	9.6	<20						

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.1	96.2	50.0	49.3	98.6	2.5	75-125	<15
Arsenic	0.00	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15
Barium	71.5	50.0	111	79.0	50.0	115	87.0	9.6	75-125	<15
Beryllium	0.00	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15
Cadmium	0.00	50.0	51.0	102	50.0	49.5	99.0	3.0	75-125	<15
Chromium	5.99	50.0	55.9	99.8	50.0	56.5	101	1.2	75-125	<15
Cobalt	5.50	50.0	54.9	98.8	50.0	55.3	99.6	<1	75-125	<15
Copper	12.0	50.0	64.5	105	50.0	66.5	109	3.7	75-125	<15
Lead	0.00	50.0	49.6	99.2	50.0	49.9	99.8	<1	75-125	<15
Mercury (By EPA 7471)	0.00500	0.500	0.355M	70.0	0.500	0.366M	72.2	3.1	75-125	<15
Molybdenum	0.00	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15
Nickel	10.8	50.0	59.0	96.4	50.0	59.5	97.4	1.0	75-125	<15
Selenium	0.00	50.0	44.0	88.0	50.0	45.8	91.6	4.0	75-125	<15
Silver	0.00	50.0	47.6	95.2	50.0	49.2	98.4	3.3	75-125	<15
Thallium	0.00	50.0	41.9	83.8	50.0	41.6	83.2	<1	75-125	<15
Vanadium	29.8	50.0	80.3	101	50.0	82.8	106	4.8	75-125	<15
Zinc	30.3	50.0	79.2	97.8	50.0	79.3	98.0	<1	75-125	<15

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15	
Arsenic	50.0	53.0	106	50.0	52.0	104	1.9	75-125	<15	
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Beryllium	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<15	
Cadmium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Chromium	50.0	53.5	107	50.0	52.5	105	1.9	75-125	<15	
Cobalt	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Copper	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Lead	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0514202C2; Dup or Spiked Sample: 104744.28; LCS: Blank; QC Prepared: 05/14/2020; QC Analyzed: 05/15/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.409M	81.8	0.500	0.410M	82.0	<1	75-125	<15	
Molybdenum	50.0	52.5	105	50.0	51.5	103	1.9	75-125	<15	
Nickel	50.0	49.4	98.8	50.0	49.6	99.2	<1	75-125	<15	
Selenium	50.0	48.8	97.6	50.0	48.1	96.2	1.4	75-125	<15	
Silver	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Thallium	50.0	53.5	107	50.0	53.0	106	<1	75-125	<15	
Vanadium	50.0	52.5	105	50.0	53.0	106	<1	75-125	<15	
Zinc	50.0	54.5	109	50.0	51.0	102	6.6	75-125	<15	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1; Dup or Spiked Sample: 104747.02; LCS: Blank; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.369	73.8	0.500	0.413	82.6	11.3	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.350	70.0	0.500	0.347	69.4	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0206	82.4	0.0250	0.0210	84.0	1.9	30-150	<20
Tetrachloro-m-xylene	0.00	0.0250	0.0140	56.0	0.0250	0.0194	77.6	32.3	30-150	<20

QC Batch No: 051320ZB1; Dup or Spiked Sample: 104747.02; LCS: Blank; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	0.500	0.390	78.6	0.500	0.430	85.8	8.8	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.410	81.8	0.500	0.400	80.4	1.7	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0250	0.0230	92.0	0.0250	0.0211	84.4	8.6	30-150	<20	
Tetrachloro-m-xylene	0.0250	0.0224	89.6	0.0250	0.0273	109	19.5	30-150	<20	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 051320ZB1A; Dup or Spiked Sample: 104747.02; LCS: Blank; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.369	73.8	0.500	0.413	82.6	11.3	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.350	70.0	0.500	0.347	69.4	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	0.0250	0.0206	82.4	0.0250	0.0210	84.0	1.9	30-150	<20
Tetrachloro-m-xylene	0.00	0.0250	0.0140	56.0	0.0250	0.0194	77.6	32.3	30-150	<20

QC Batch No: 051320ZB1A; Dup or Spiked Sample: 104747.02; LCS: Blank; QC Prepared: 05/13/2020; QC Analyzed: 05/13/2020; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	0.500	0.390	78.6	0.500	0.430	85.8	8.8	50-150	<20	
Aroclor-1260 (PCB-1260)	0.500	0.410	81.8	0.500	0.400	80.4	1.7	50-150	<20	
Surrogates										
Decachlorobiphenyl	0.0250	0.0230	92.0	0.0250	0.0211	84.4	8.6	30-150	<20	
Tetrachloro-m-xylene	0.0250	0.0224	89.6	0.0250	0.0273	109	19.5	30-150	<20	

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Project ID: IO# 345478
Project Name: Culver City Sub. CBs

AETL Job Number	Submitted	Client
104744	05/12/2020	SCE

Method: ASTM-D2216, Moisture Content

QC Batch No: MO051220-1; Dup or Spiked Sample: 104704.25; Units: % wt

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Moisture Content	9.24	8.39	9.6	<20						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Republic Services

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SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123207480	**Expiration Date** 6/5/2023	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: CHAMPA NURSERY			
Generator Site Address: 4254 TYLER AVE			
City: EL MONTE	**County:**	**State:** CA	**Zip:**
Name of Waste: PLANTS			
Estimated Annual Volume: 5000 Pounds			

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 6/9/2020

III. Facility Decision: ☐ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 6/9/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 7480

Sales Rep #:

I. Generator Information

Generator Name: Champa Nursery

Generator Site Address: 4254 Tyler Ave

City: El Monte County: Los Angeles State: California Zip: 91731

State ID/Reg No: State Approval/Waste Code: NAICS #: 111421

Generator Mailing Address ☑ (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Jimmy Nguyen Email: jimmyn@champanursery.com

Phone Number: 626-213-7747 Ext: Fax Number: 626-452-8871

II. Billing Information

Bill To: Champa Nursery Contact Name: Jimmy Nguyen

Billing Address: 19248 Tranbarger St Email: jimmyn@champanursery.com

City: Rowland Heights State: California Zip: 91748 Phone: 626-213-7747

III. Waste Stream Information

Name of Waste: Plants

Process Generating Waste: Plants will be cut and double bags with 2 mil bag. It needs to be destroyed because one of the Trees has one Unidentified insect egg. (F.M. 06/05/2020)

Type of Waste: Pollution Control Waste Physical State: Solid Method of Shipment: Bagged

Estimated Volume: ~5,000 Volume Type: Pounds

Frequency: On-going Waste Stream Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date:

Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Plants with soil	Soil: 70-80%, Plants: 20-30%
2.	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
green	none	☑ Yes ☒ No	100%	N/A	N/A °F

Jn 06/05/2020

No liquids Jn 06/05/2020.

Jn 06/05/2020

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐ Yes	☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?	☐ Yes	☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐ Yes	☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐ Yes	☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.	☐ Yes	☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?	☐ Yes	☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?	☐ Yes	☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes	☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.	☐ Yes	☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?	☐ Yes	☑ No
2. Does the waste contain sulfur or sulfur by-products?	☐ Yes	☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?	☐ Yes	☑ No
4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?	☐ Yes	☑ No

4b. If yes to the above question, please provide clarification.

Special Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Jimmy Nguyen	President	Champa Nursery
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		06/05/2020
Representative Signature		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 7480

Generator Billing Information		Republic Waste Location (Company)
Name:	CHAMPA NURSERY (ACCT 321 CASH)	SUNSHINE CANYON LANDFILL (5123)
Address:	4254 TYLER AVE	14747 SAN FERNANDO RD
		SYLMAR, CA 91342
City:	EL MONTE	818.362.2141
State:	CA Zip: 91731	
Phone:	626.213.7747 Fax:	
Contact:	JIMMY NGUYEN	

Project: PLANT PRODUCTS **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. **(A) Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
PLANT PRODUCTS	LANDFILL		TAXES, ERF, FRF APPLY	N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: ENVIRONMENTAL RECOVERY FEE (ERF) LOAD | FUEL RECOVER FEE FRF CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

PROFILE EXPIRES 06/05/2023 | MATERIAL CODE XD-FOOD WASTE | EAV 5000 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 5000 POUNDS Without Prior Approval of Company.

(B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 36 months, commencing 06/10/2023 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR	REPUBLIC SERVICES/COMPANY
SIGNATURE (AUTHORIZED REPRESENTATIVE)	Edward Antolin SIGNATURE (AUTHORIZED REPRESENTATIVE)
Jimmy Nguyen (President) NAME AND TITLE (PLEASE PRINT)	EDWARD ANTOLIN, MESE NAME AND TITLE (PLEASE PRINT)
06/10/2020 DATE	6/11/2020 DATE

Terms and Conditions of Special Waste Service Agreement

The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

). Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

1. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

2. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

3. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said polices shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ 06/10/2020 REPUBLIC SERVICES/COMPANY: Edward Antolin December 2018

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123207636	**Expiration Date** 6/11/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: MAYESH WHOLESALE FLORIST

Generator Site Address: 5401 W 104TH ST

City: LOS ANGELES	**County:**	**State:** CA	**Zip:**

Name of Waste: FRESH CUT FLOWERS

Estimated Annual Volume: 350 Pounds

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 6/12/2020

III. Facility Decision: ☒ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** CHRIS COYLE

Date: 6/12/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 7636

Sales Rep #:

I. Generator Information

Generator Name: Mayesh Wholesale Florist

Generator Site Address: 5401 W 104th Street

City: Los Angeles County: Los Angeles State: California Zip: 90045

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different) 5401 W 104th Street

City: Los Angeles County: Los Angeles State: California Zip: 90045

Generator Contact Name: Richard Dahlson Email: Rdahlsonjr@Mayesh.com

Phone Number: (818)333-6251 Ext: none Fax Number: (310)348-4935

II. Billing Information

Bill To: Mayesh Wholesale Florist Contact Name: Richard Dahlson

Billing Address: 5401 W 104th Street Email: Rdahlsonjr@Mayesh.com

City: Los Angeles State: California Zip: 90045 Phone: (818)333-6251

III. Waste Stream Information

Name of Waste: Fresh Cut Flowers

Process Generating Waste: Flower cuttings from farms. RD 6/11/2020
Found unwanted bugs Not allowed in California.

Type of Waste: Pollution Control Waste Physical State: Solid Method of Shipment: Bagged

Estimated Volume: 350 Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☑ **No**

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. Flower Branches and stems	100
2.	
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
green	None	☐ Yes ☑ No	100	NA	NA °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? ☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? ☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? ☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? ☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. ☐ Yes ☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? ☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31? ☐ Yes ☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. ☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture? ☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products? ☐ Yes ☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? ☐ Yes ☑ No

4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? ☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Richard Dahlson	Warehouse Manager	Mayesh Wholesale Florist
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		06/11/2020
Representative Signature		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 7636

Generator Billing Information		Republic Waste Location (Company)
Name:	MAYESH WHOLESALE FLORIST(ACCT 321 CASH)	SUNSHINE CANYON LANDFILL (5123)
Address:	5401 W 104TH ST	14747 SAN FERNANDO RD
		SYLMAR, CA 91342
City:	LOS ANGELES	818.362.2141
State:	CA Zip: 90045	
Phone:	818.333.6251 Fax:	
Contact:	RICHARD DAHLSON	

Project: PLANT PRODUCTS-CUT FLOWERS **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
PLANT PRODUCTS	LANDFILL		TAXES, ERF, FRF APPLY	N/A
N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL RECOVERY FEE (ERF) /LOAD | FUEL RECOVER FEE (FRF) CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) | INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Additional Information:

PROFILE EXPIRES 06/11/2021 | MATERIAL CODE XD-FOOD WASTE | EAV 350 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 350 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 06/12/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR	REPUBLIC SERVICES/COMPANY
SIGNATURE (AUTHORIZED REPRESENTATIVE)	Edward Antolin SIGNATURE (AUTHORIZED REPRESENTATIVE)
Richard Dahlson Warehouse manager NAME AND TITLE (PLEASE PRINT)	EDWARD ANTOLIN, MESE NAME AND TITLE (PLEASE PRINT)
6/12/2020 DATE	6/12/2020 DATE

Terms and Conditions of Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws, or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranty or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or lapse, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement, or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123207663	**Expiration Date** 6/11/2021	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: CENTRAL AMERICAN PRODUCE IMPORTS INC

Generator Site Address: 2640 E WASHINGTON BLVD

City: LOS ANGELES	**County:**	**State:** CA	**Zip:**

Name of Waste: FALSE CORIANDER

Estimated Annual Volume: 3 Tons

II. Special Waste Department Decision: ☑ **Approved** ☐ **Rejected**

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 6/12/2020

III. Facility Decision: ☒ **Approved** ☐ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** CHRIS COYLE

Date: 6/12/2020

Special Waste Profile

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 20 7663

Sales Rep #:

I. Generator Information

Generator Name: CENTRAL AMERICAN PRODUCE IMPORTS, INC

Generator Site Address: 2640 E WASHIGTON BLVD

City: LOS ANGELES County: LOS ANGELES State: California Zip: 90023

State ID/Reg No: NA State Approval/Waste Code: NAICS #:

Generator Mailing Address ☐ (if different) P.O BOX 4325

City: COVINA County: LOS ANGELES State: California Zip: 91723

Generator Contact Name: EDUARDO ORIHUELA Email: yayo1957@gmail.com

Phone Number: 323-590-6995 Ext: Fax Number: 323-297-5500

II. Billing Information

Bill To: CENTRAL AMERICAN IMPORTS, INC Contact Name: EDUARDO ORIHUELA

Billing Address: 620 N JALAPA DR Email: yayo1957@gmail.com

City: COVINA State: California Zip: 91724 Phone: 323-590-6995

III. Waste Stream Information

Name of Waste: FALSE CORIANDER

Process Generating Waste: *It was put on hold by the county agriculture department, they found a slug (insect).
they determine after lab results it had to be dumped .

Type of Waste: 6/11/20 POLLUTION CONTROL Physical State: Solid Method of Shipment: Other

Estimated Volume: 2.5 tons Volume Type: Tons

Frequency: One-time Event (single p Disposal Consideration: Landfill

IV. Representative Sample Certification

☑ No Sample Taken

☐ Sample Taken Type of Sample --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ Yes ☐ No

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

Special Waste Profile

REPUBLIC SERVICES

V. Physical Characteristics of Waste

Characteristic Components (must equal 100%:)	% By Weight (out of 100% - ranges acceptable):
1. plant leaves 100%	100 %
2.	SP 6/11/20
3.	
4.	
5.	

Color:	Odor (describe):	Does Waste Contain Free Liquids?	% Solids:	pH:	Flash Point:
green	none	☐ Yes ☑ No	100%	N/A	N/A °F
				SP 6/11/20	

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33? ☐ Yes ☑ No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]? ☐ Yes ☑ No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761? ☐ Yes ☑ No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents? ☐ Yes ☑ No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register. ☐ Yes ☑ No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both? ☐ Yes ☑ No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31? ☐ Yes ☑ No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? ☐ Yes ☑ No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation. ☐ Yes ☑ No

Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture? ☐ Yes ☑ No
2. Does the waste contain sulfur or sulfur by-products? ☐ Yes ☑ No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA? ☐ Yes ☑ No

4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)? ☐ Yes ☑ No

4b. If yes to the above question, please provide clarification.

Special Waste Profile

REPUBLIC SERVICES

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Eduardo Orihuela	MGR	central american produce imports, inc
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		6/11/2020
Representative Signature		Date

SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

REPUBLIC SERVICES

Special Waste Profile Number: 5123 20 7663

Generator Billing Information

Name: CENTRAL AMERICAN PRODUCE IMPORTS (ACCT 321 CASH)
Address: PO BOX 4325
City: COVINA
State: CA Zip: 91723
Phone: 323.590.6995 Fax:
Contact: EDUARDO ORIHUELA

Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)
14747 SAN FERNANDO RD
SYLMAR, CA 91342
818.362.2141

Project: PLANTS-FALSE CORIANDER **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: 2640 E WASHINGTON BLVD, LA

1. **Special Waste Service**. Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal**:

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
PLANT PRODUCTS	LANDFILL		TAXES, ERF, FRF APPLY	N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: ENVIRONMENTAL RECOVERY FEE (ERF) OAD | FUEL RECOVER FEE (FRF) ; CALCULATED ON VOLUME AT TIME OF DISPOSAL (PER LOAD) \ INVOICE AND LATE FEES MAY APPLY | A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

PROFILE EXPIRES 06/11/2021| MATERIAL CODE XD-FOOD WASTE | EAV 3 TONS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 3 TONS Without Prior Approval of Company.

(B) **Incorporation by Reference**. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement**. This Agreement is effective for 12 months, commencing 06/12/2020 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Eduardo Orihuela MGR

NAME AND TITLE (PLEASE PRINT)

6/16/2020

DATE

REPUBLIC SERVICES/COMPANY

Edward Antolin

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN, MESE

NAME AND TITLE (PLEASE PRINT)

6/16/2020

DATE

Terms and Conditions of Special Waste Service Agreement

4. The Agreement. This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

5. Waste Accepted at Facility. Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

6. Acceptable Waste. Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

7. Rights of Refusal/Rejection. The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes: (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

8. Limited License to Enter. This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

9. Charges and Payment. Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

10. Termination. Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranty or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

11. Driver's Knowledge and Authority. Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

12. Indemnification. Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

13. Insurance. Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below.

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	$1,000,000
General Liability	$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or lapse, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. Failure to Perform. Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. Assignment. Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. Right of Disposal. This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. Continuing Compliance. The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement, or any Acceptable Waste Documentation.

18. Miscellaneous.

(A) This Agreement shall be governed by the laws of the State in which the Facility is located.

(B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.

(C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.

(D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.

(E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.

(F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.

(G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.

(H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.

(I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. Notices. Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. Liquidated Damages. If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: _____ REPUBLIC SERVICES/COMPANY: Edward Antolin December 2018

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123Y81869	**Expiration Date** 5/14/2020	
I. Decision Request:	☐ Initial ☑ Recertification ☐ Change		

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: STERICYCLE, INC.

Generator Site Address: 2775 E. 26th STREET

City: VERNON	**County:**	**State:** CA	**Zip:**

Name of Waste: TREATED & STERILIZED MEDICAL WASTE

Estimated Annual Volume: 20000 Tons

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

The generator must comply with all Federal, State and Local regulations regarding Disinfected (Steam Sterilized, Microwaved, Treated) Medical Waste.

This material must be buried immediately upon receipt at the landfill.

In order to keep this file active, a TSDF site audit must be completed for this generator's site. Please have an audit scheduled and completed prior to the expiration date above.

Special Waste Analyst Signature: **Name (Printed):** Suzanne Glass

Date: 2/5/2020

III. Facility Decision: ☐ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Cayle

Date: 2/5/2020

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123Y81869	**Expiration Date** 5/14/2020	
I. Decision Request:	☐ Initial ☑ Recertification ☐ Change		

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City: VERNON	**County:**	**State:** CA	**Zip:**

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Estimated Annual Volume: 20000 Tons

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Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

The generator must comply with all Federal, State and Local regulations regarding Disinfected (Steam Sterilized, Microwaved, Treated) Medical Waste.

This material must be buried immediately upon receipt at the landfill.

In order to keep this file active, a TSDF site audit must be completed for this generator's site. Please have an audit scheduled and completed prior to the expiration date above.

Special Waste Analyst Signature: Suzanne Glass **Name (Printed):** Suzanne Glass

Date: 2/5/2020

III. Facility Decision: ☑ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: **Name (Printed):** Chris Coyle

Date: 2/5/2020

Special Waste Profile - Recertification

REPUBLIC SERVICES

Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123Y81869

Sales Rep #:

I. Generator Information

Generator Name: Stericycle Inc.

Generator Site Address: 2775 E. 26th

City: Vernon County: Los Angeles State: California Zip: 90058

State ID/Reg No: CAD980891352 State Approval/Waste Code: N/A NAICS: 4953/4212

Generator Mailing Address ☐ (if different) 2755 E. 26th

City: Vernon County: Los Angeles State: California Zip: 90058

Generator Contact Name: Jerry Jordan Email: jjordan@stericycle.com

Phone Number: 323-828-7979 Ext: N/A Fax Number: 800-707-0280

II. Waste Stream Information

Name of Waste: TREATED REGULATED MEDICAL WASTE NONHAZARDOUS

Check Section 1 or 2 below

1. ☐ ***There has been a change*** in the characteristics of the waste stream due to the following:
   a. Change of a raw material used in the waste generating process.
   b. Change in the waste generating process itself.
   c. Change in a physical characteristic of the waste.
   d. New information has been documented concerning the human health effects of exposure to the waste.

   If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.

2. ☑ ***There have been no changes*** that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

III. Representative Sample Certification

☑ **No Sample Taken**

☐ **Sample Taken** **Type of Sample** --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? ☐ **Yes** ☐ **No**

Sample Date: N/A

Sample ID Numbers: N/A

Special Waste Profile - Recertification

REPUBLIC SERVICES

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

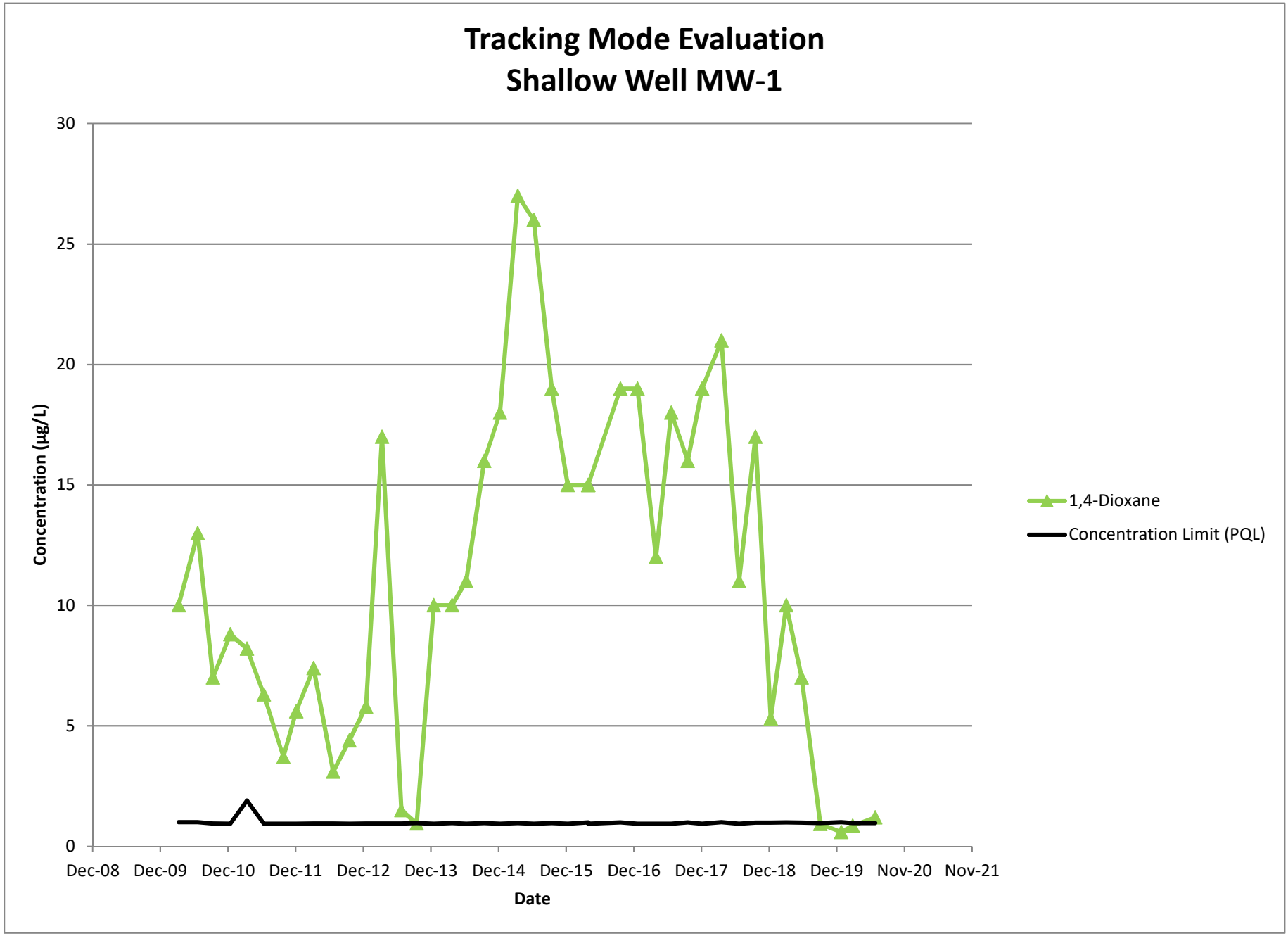
If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Andrew Jerry Jordan	Plant Manager	Stericycle Inc.
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		02/04/2020
Authorized Representative Signature		Date

APPENDIX G

TRACKING MODE TRENDS


Tracking Mode Evaluation
Shallow Well MW-1
Concentration (µg/L)
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25
20
15
10
5
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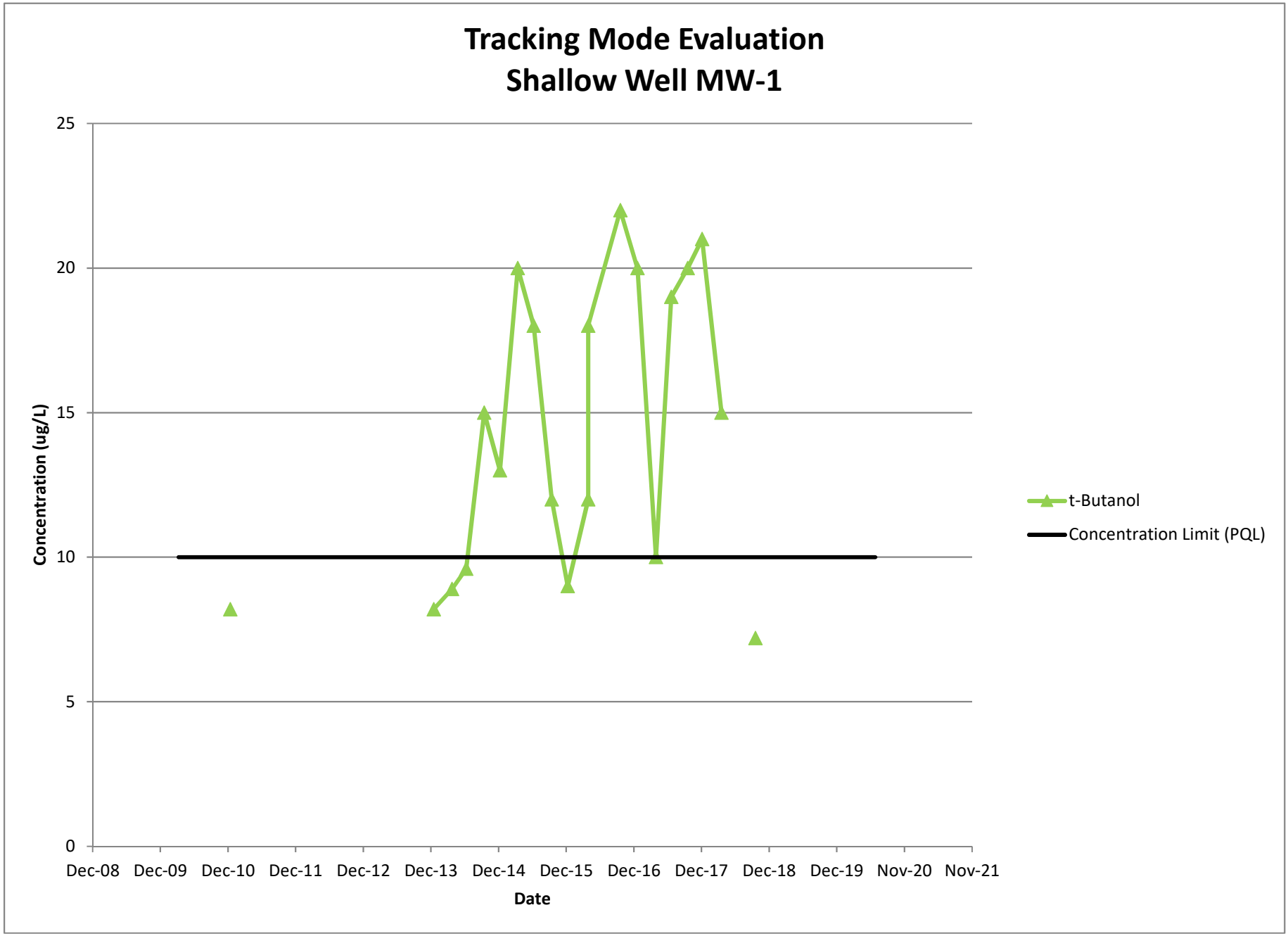
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
1,4-Dioxane
Concentration Limit (PQL)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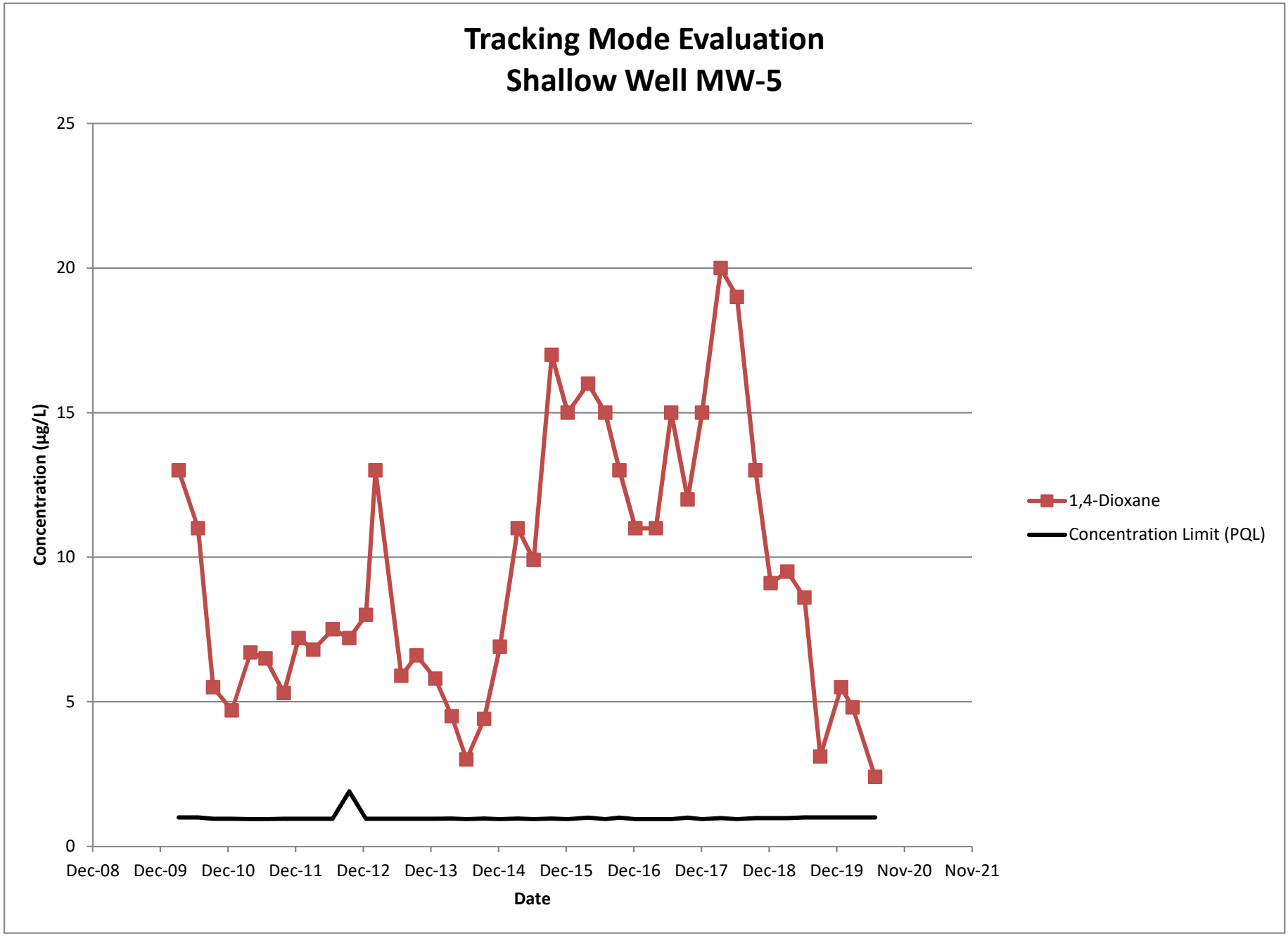
Shallow Well MW-1
Concentration (ug/L)
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
t-Butanol
Concentration Limit (PQL)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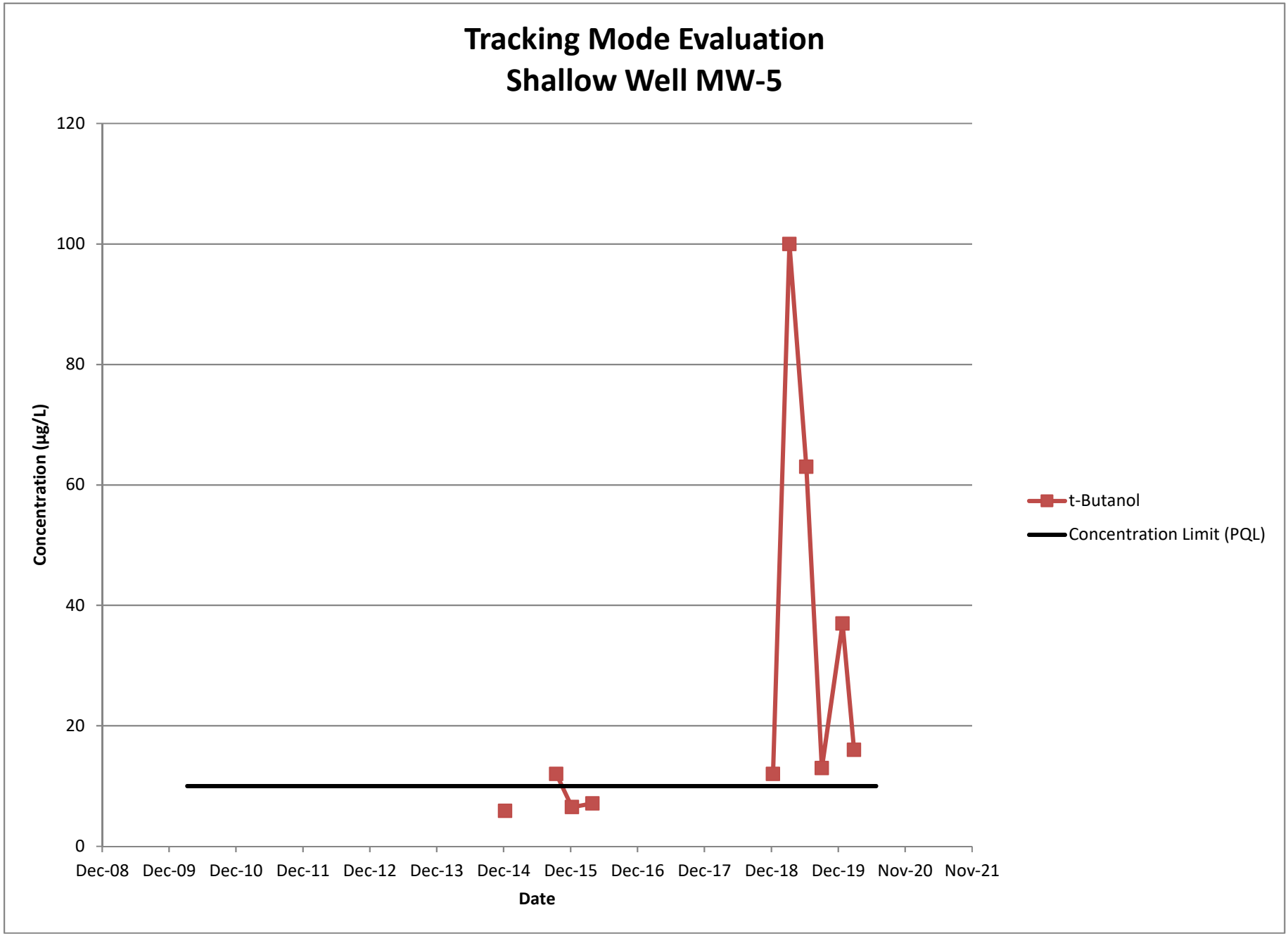
Shallow Well MW-5
Concentration (µg/L)
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
1,4-Dioxane
Concentration Limit (PQL)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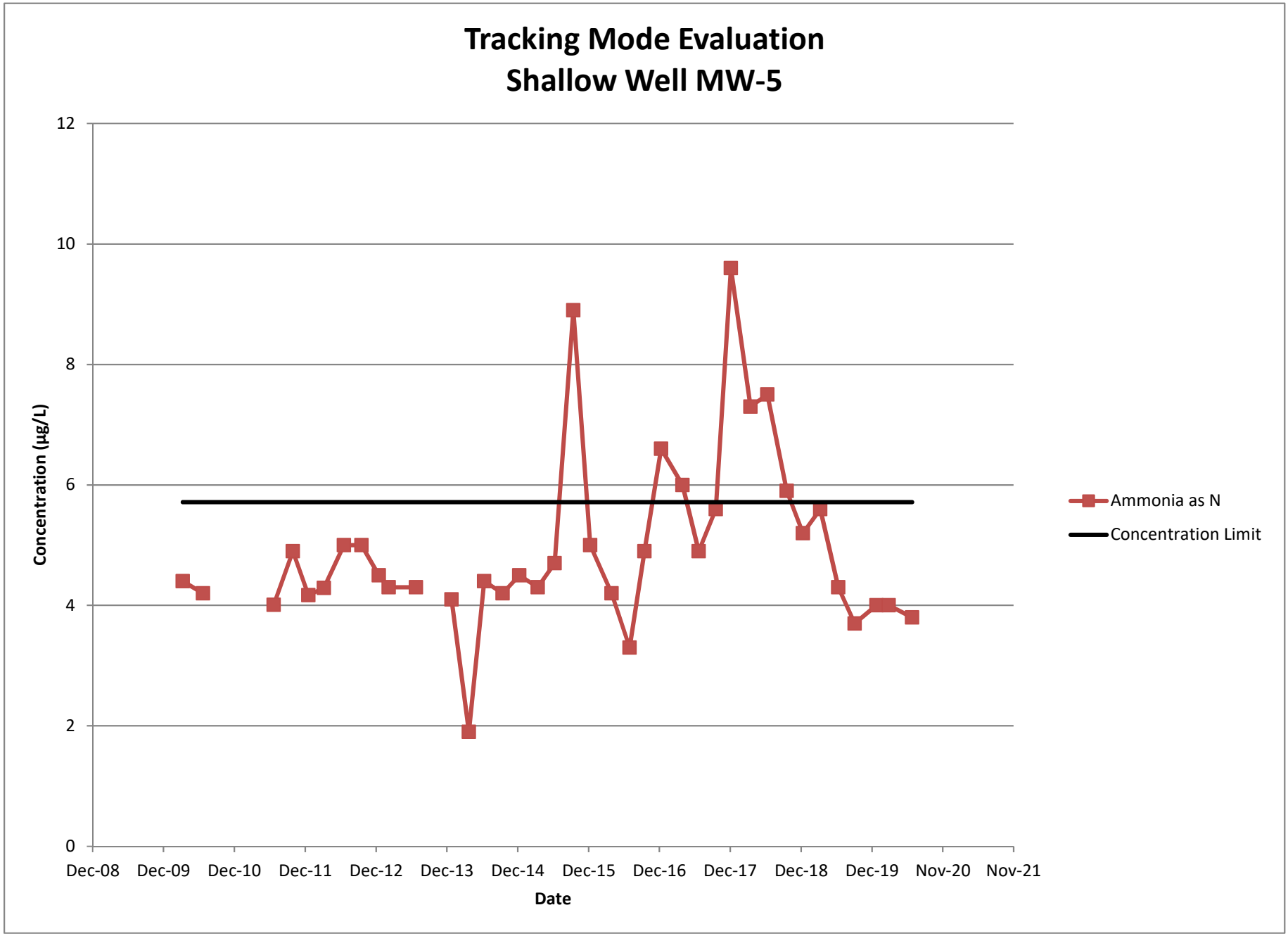
Shallow Well MW-5
120
100
80
60
40
20
0
Concentration (µg/L)
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
t-Butanol
Concentration Limit (PQL)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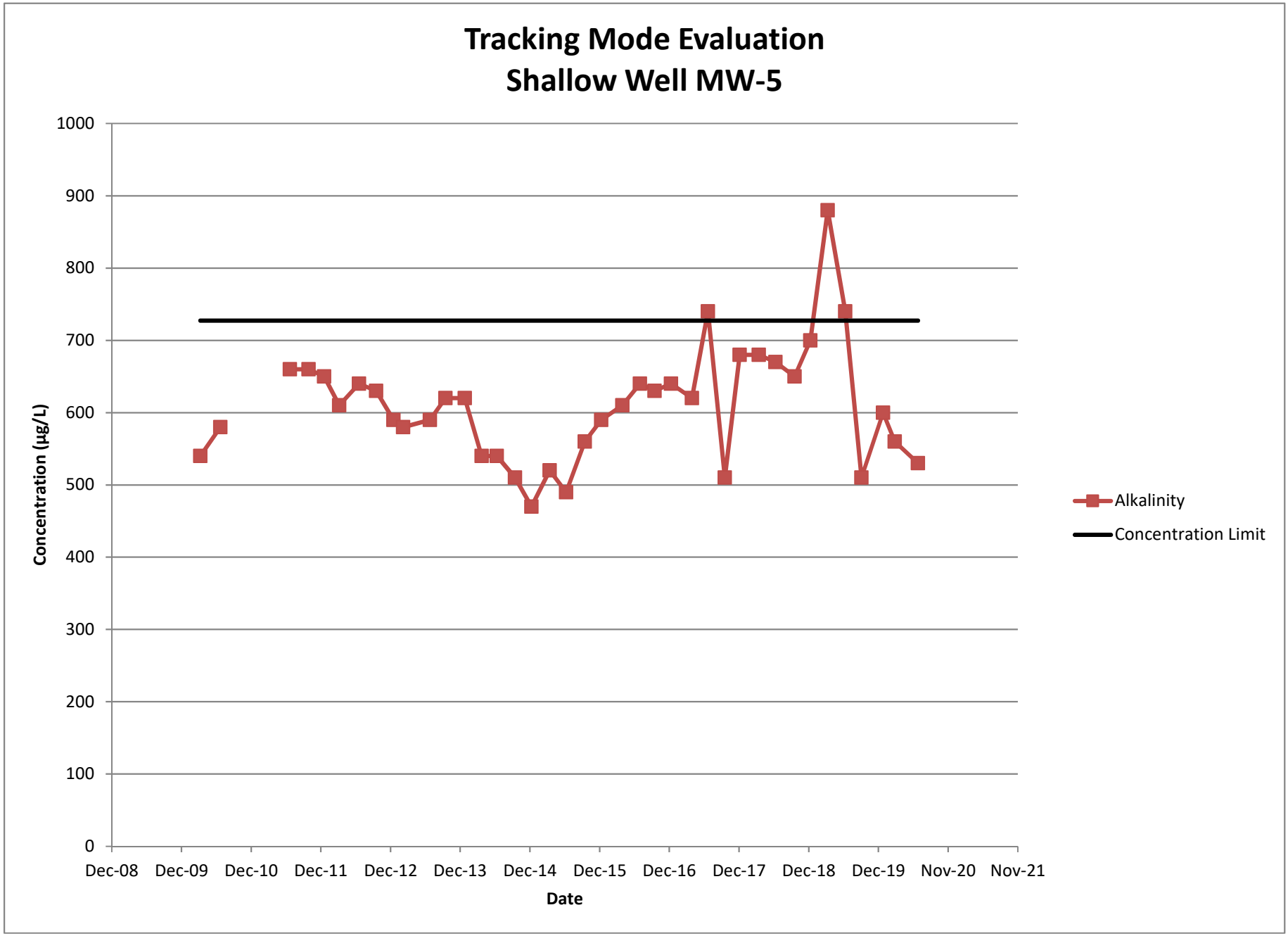
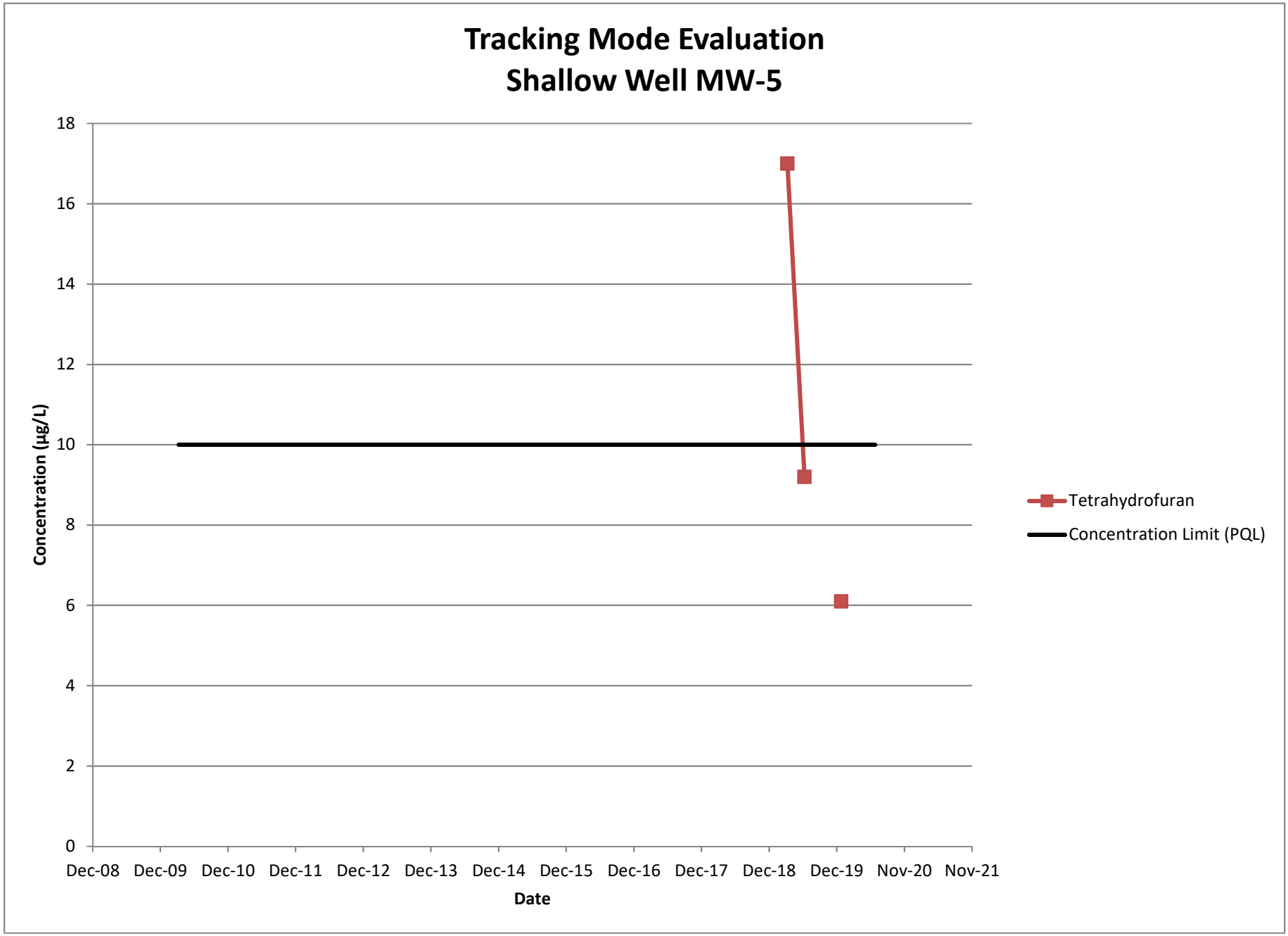
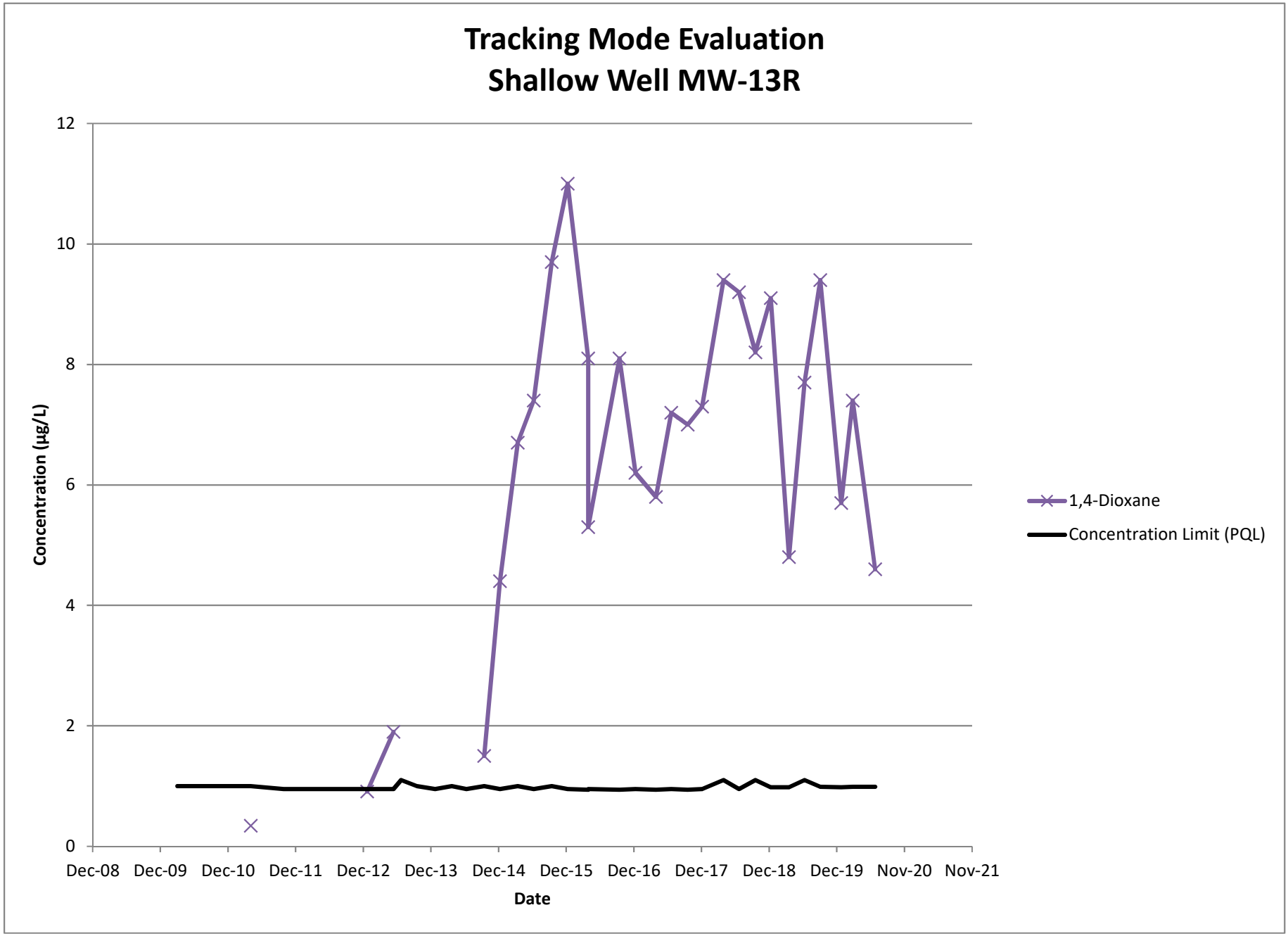
Shallow Well MW-5
Concentration (µg/L)
12
10
8
6
4
2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Ammonia as N
Concentration Limit


Tracking Mode Evaluation
Shallow Well MW-5
Concentration (µg/L)
1000
900
800
700
600
500
400
300
200
100
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Alkalinity
Concentration Limit


Tracking Mode Evaluation
Shallow Well MW-5
Concentration (µg/L)
18
16
14
12
10
8
6
4
2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Tetrahydrofuran
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
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10
8
6
4
2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
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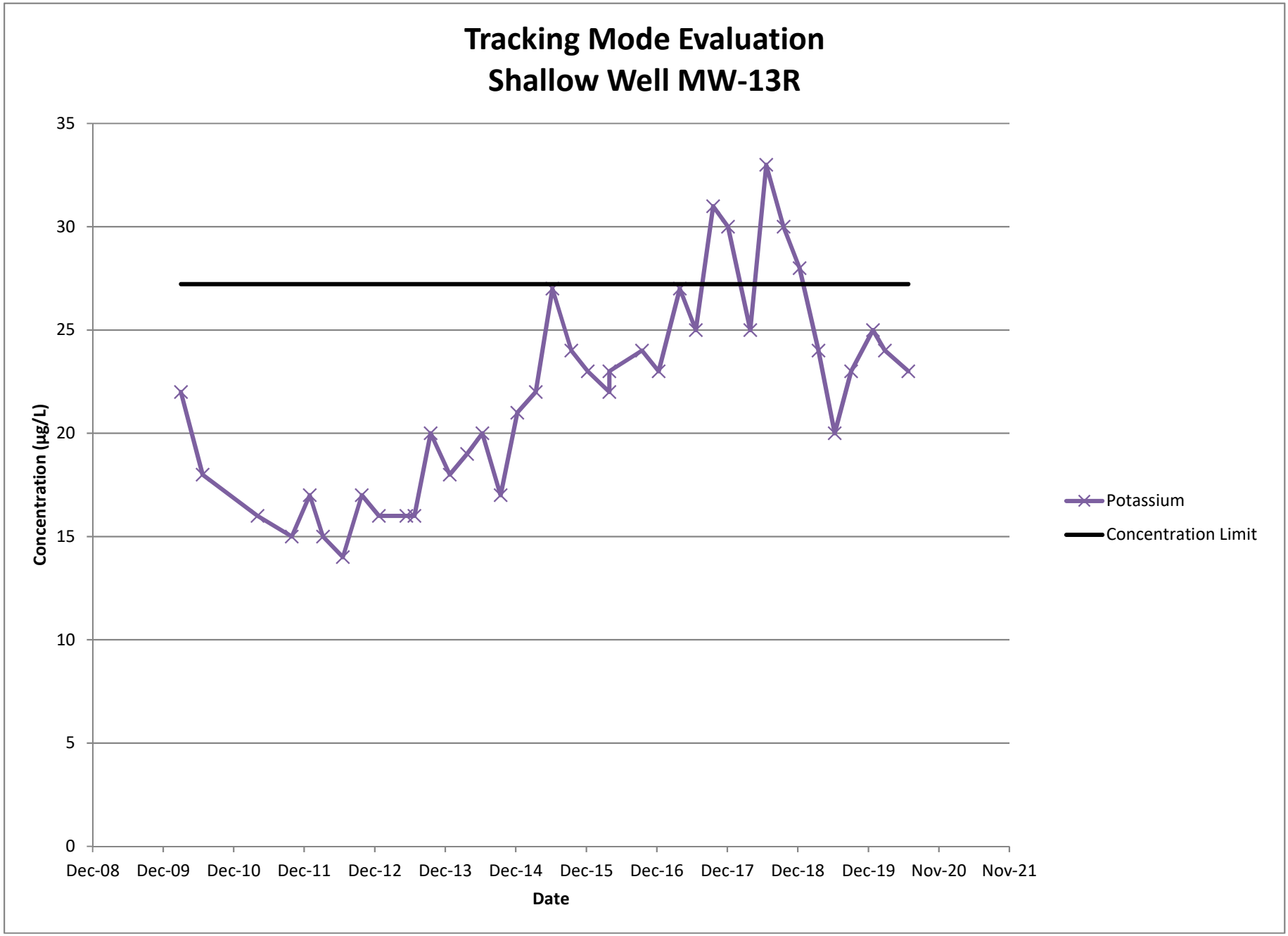
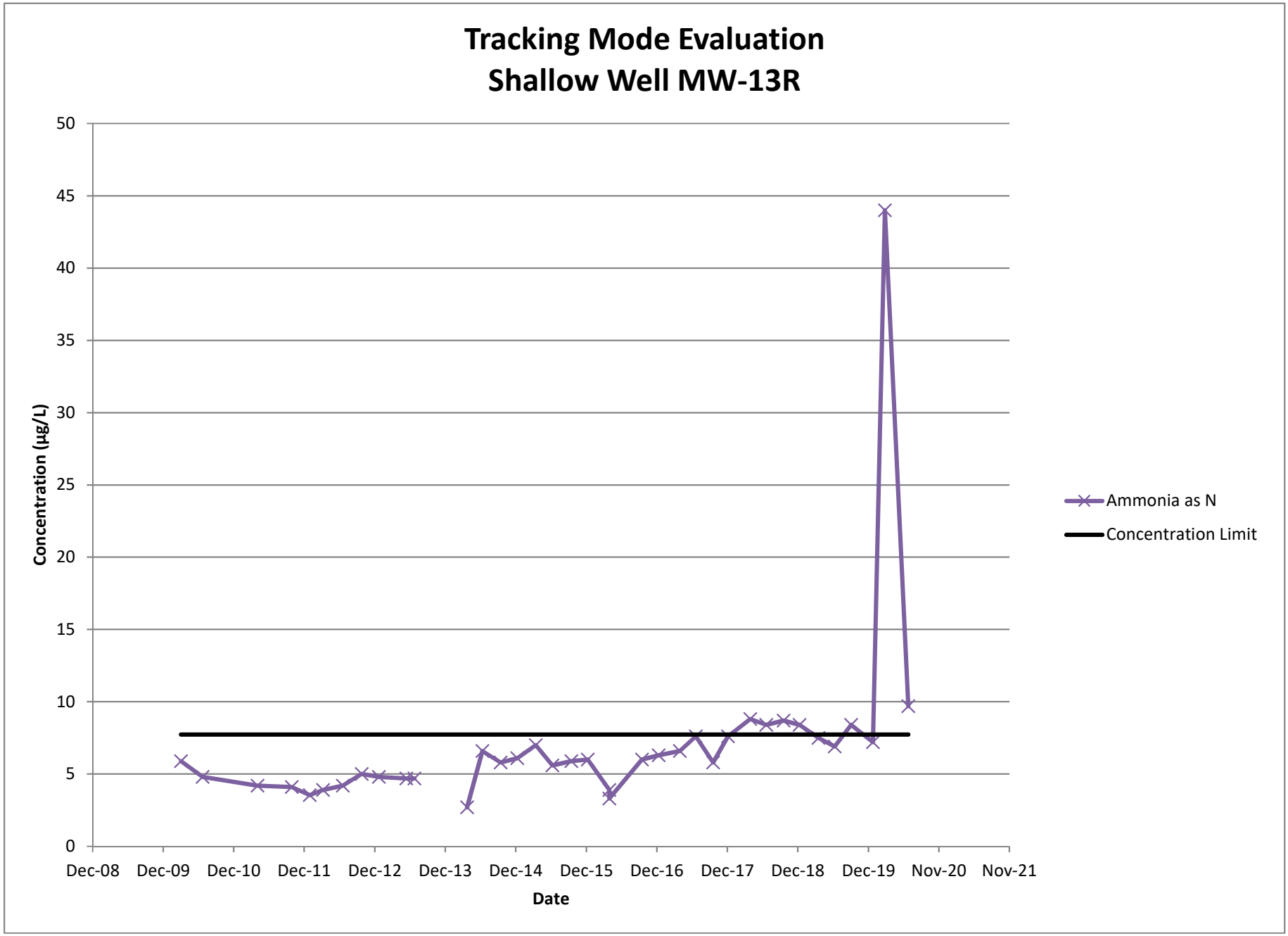
Dec-19
Nov-20
Nov-21
Date
1,4-Dioxane
Concentration Limit (PQL)


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
35
30
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Potassium
Concentration Limit


Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
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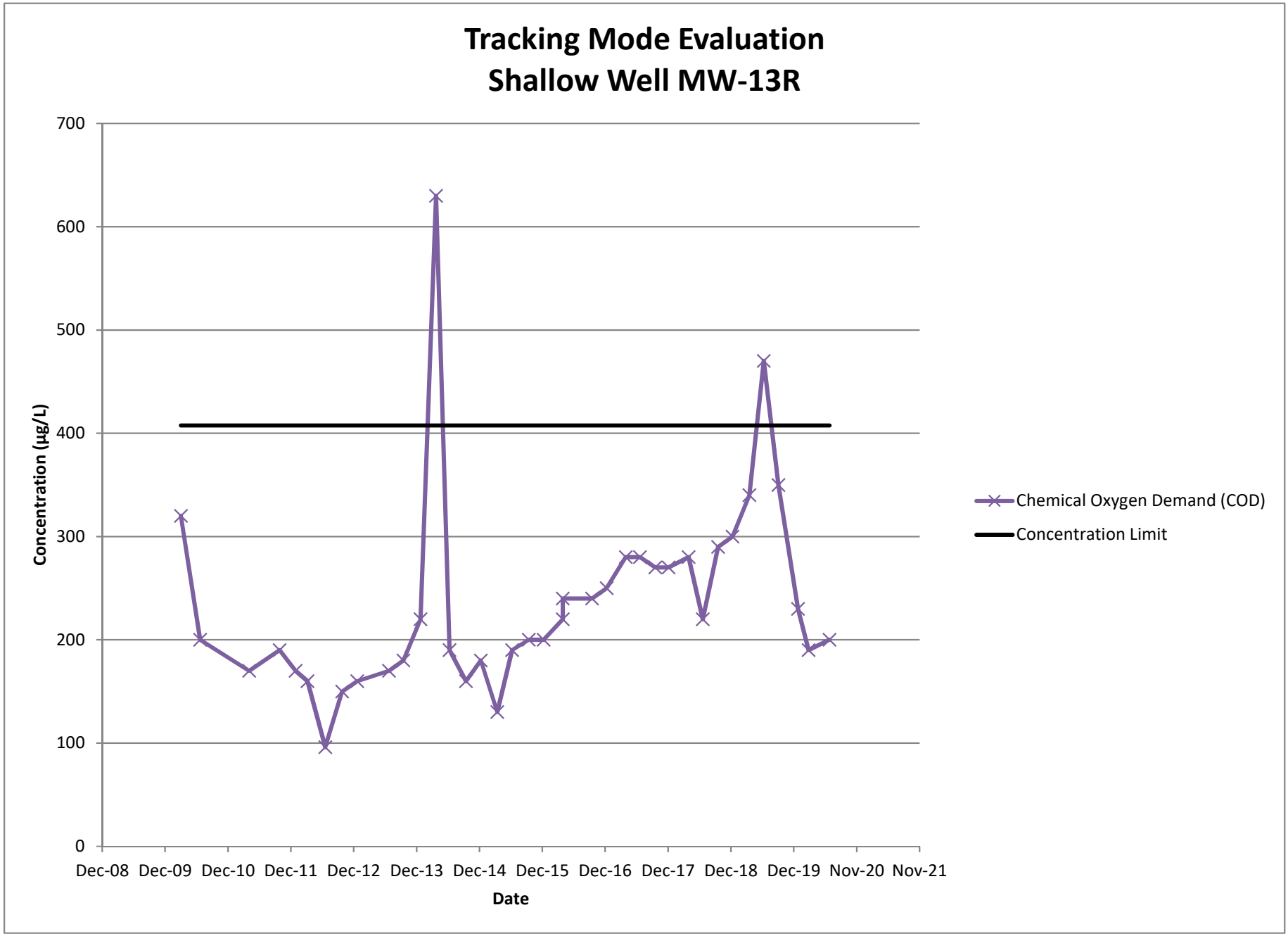
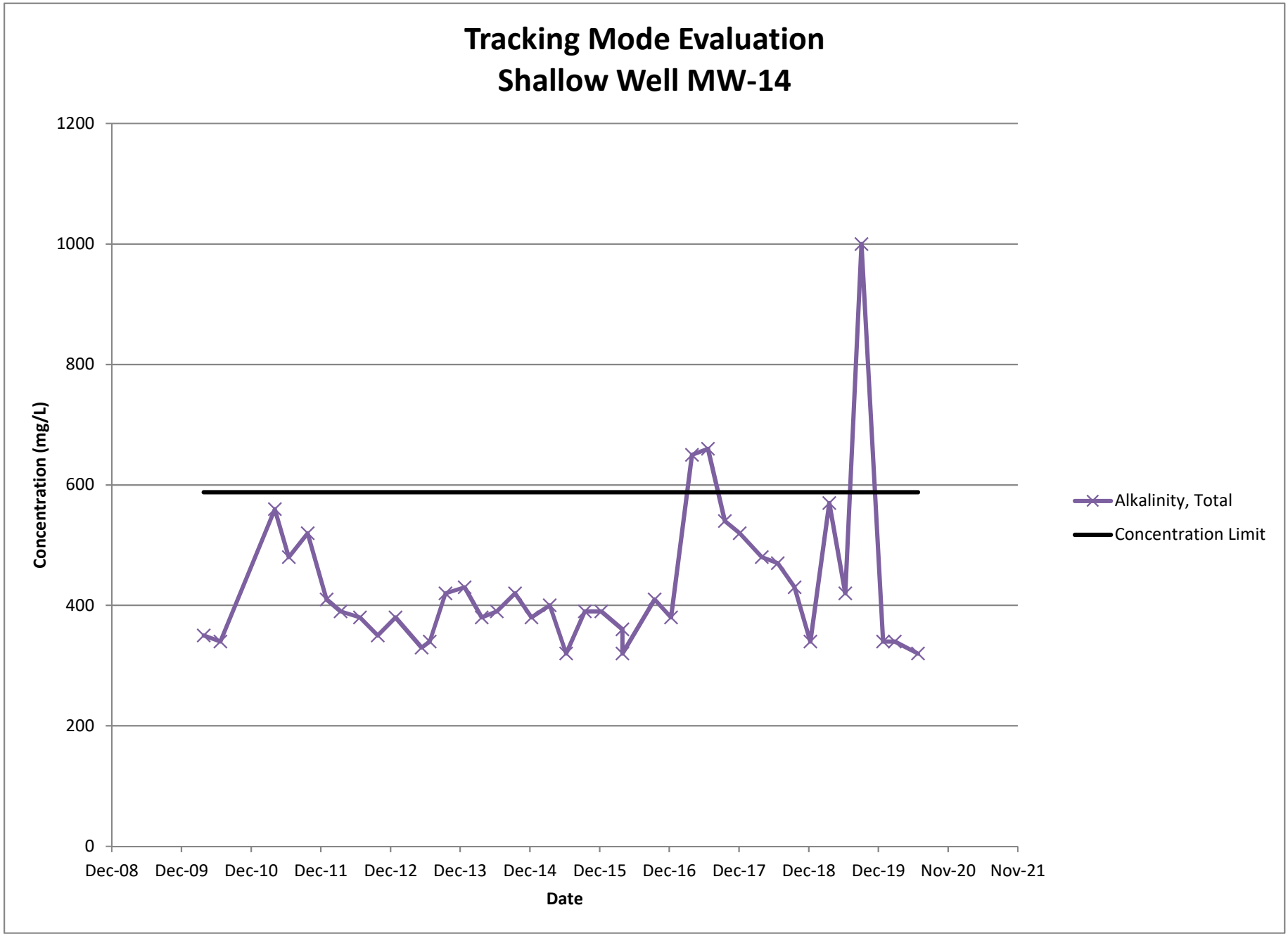
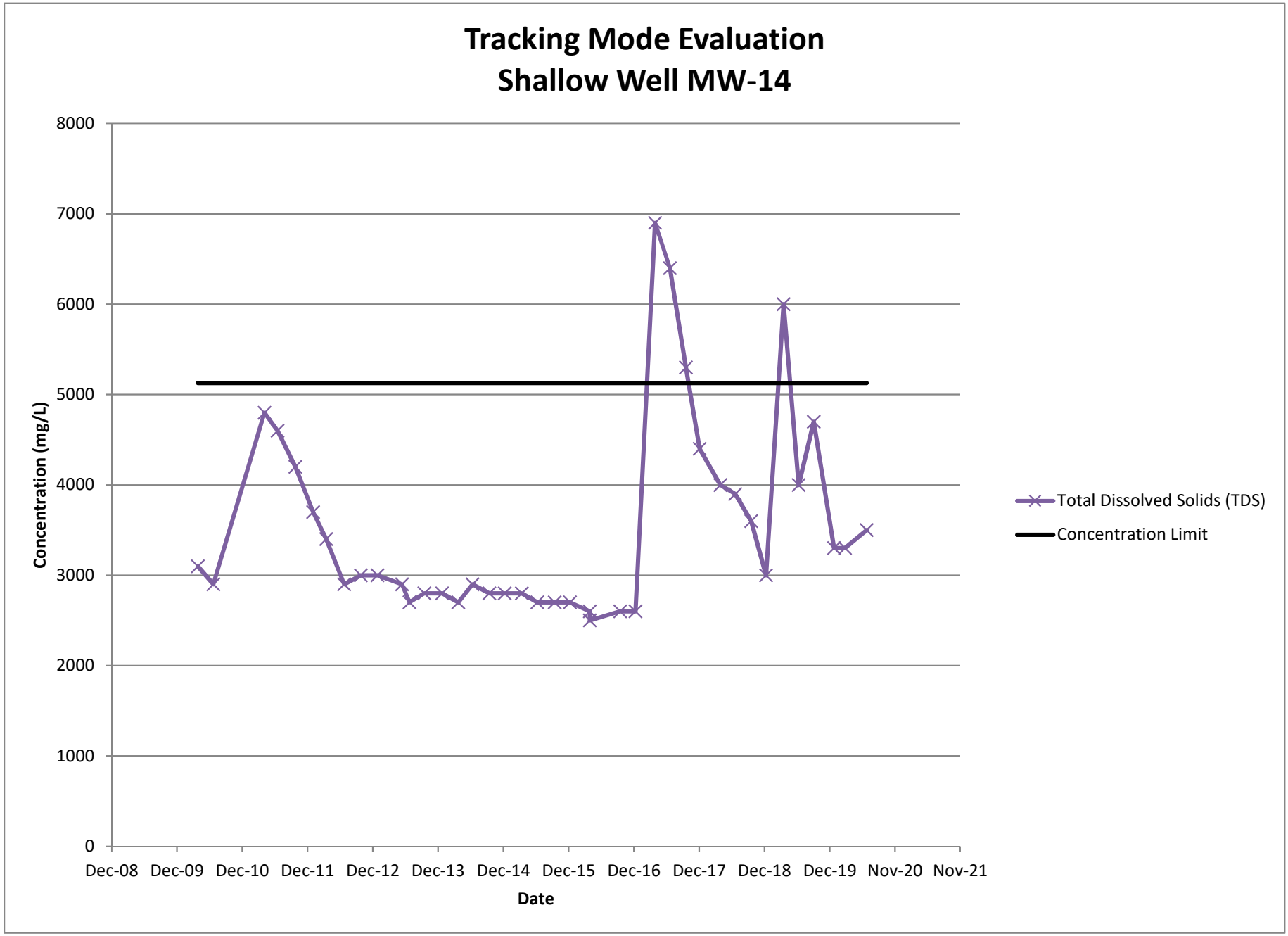
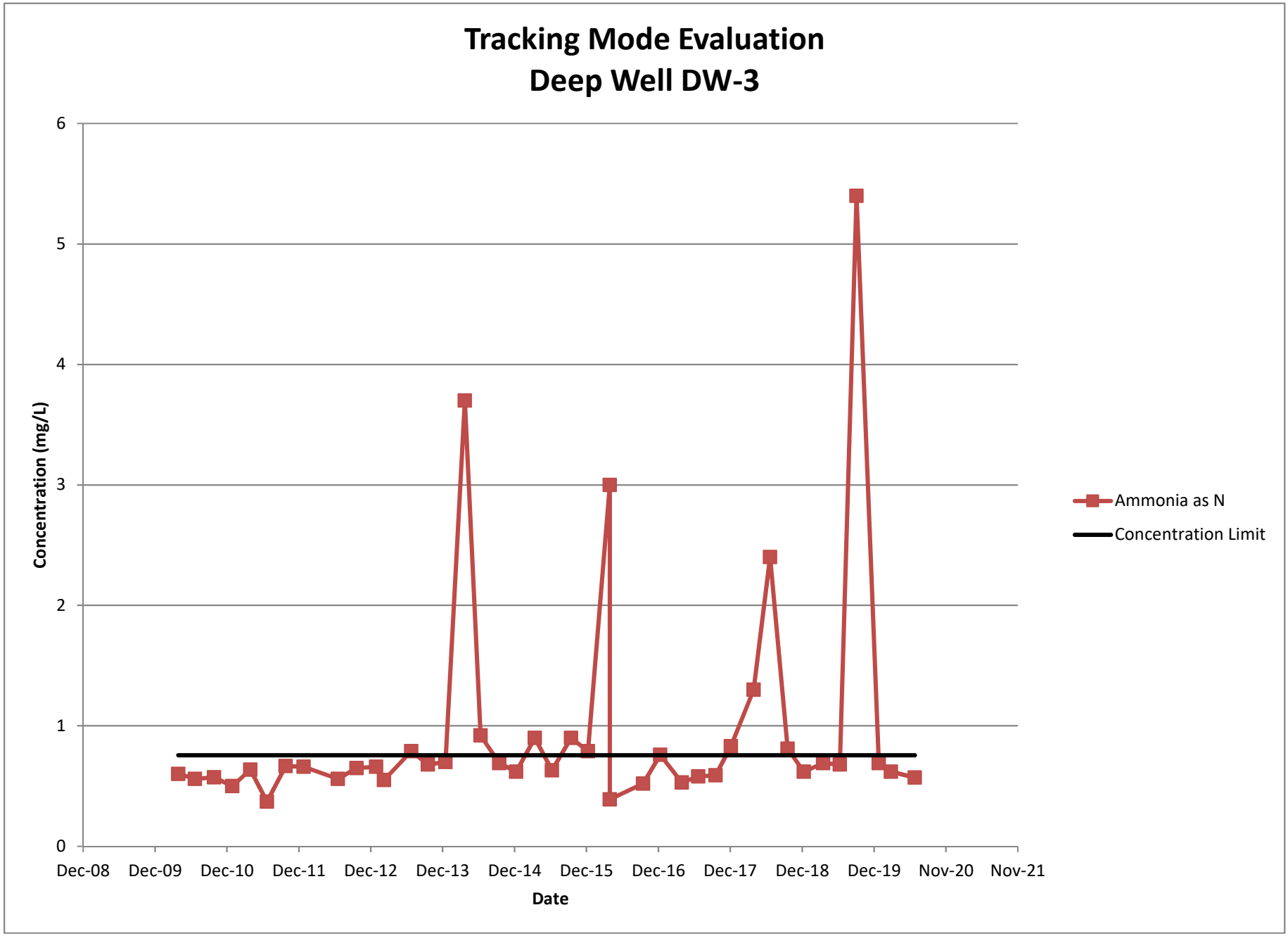
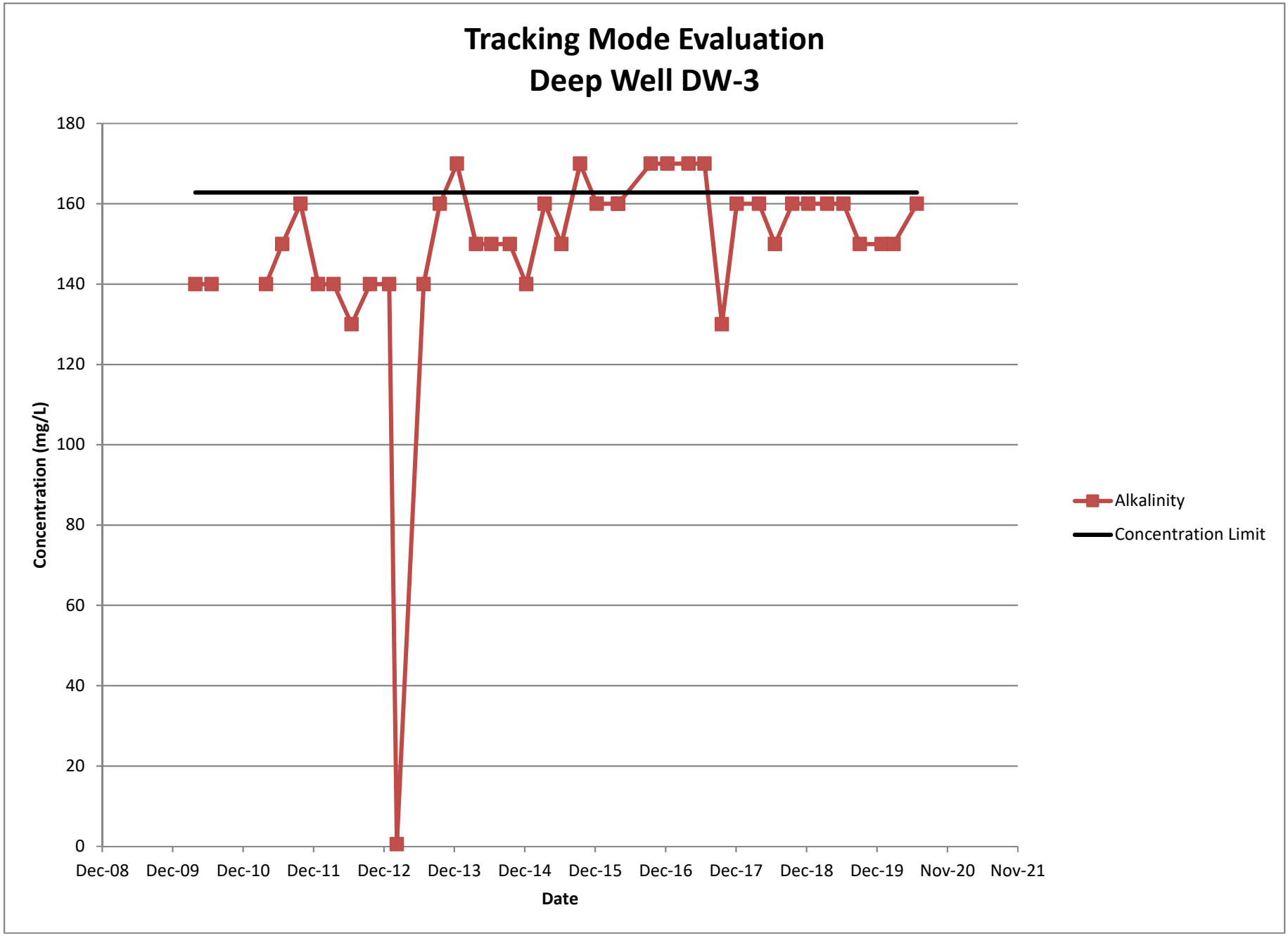
45
40
35
30
25
20
15
10
5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Ammonia as N
Concentration Limit

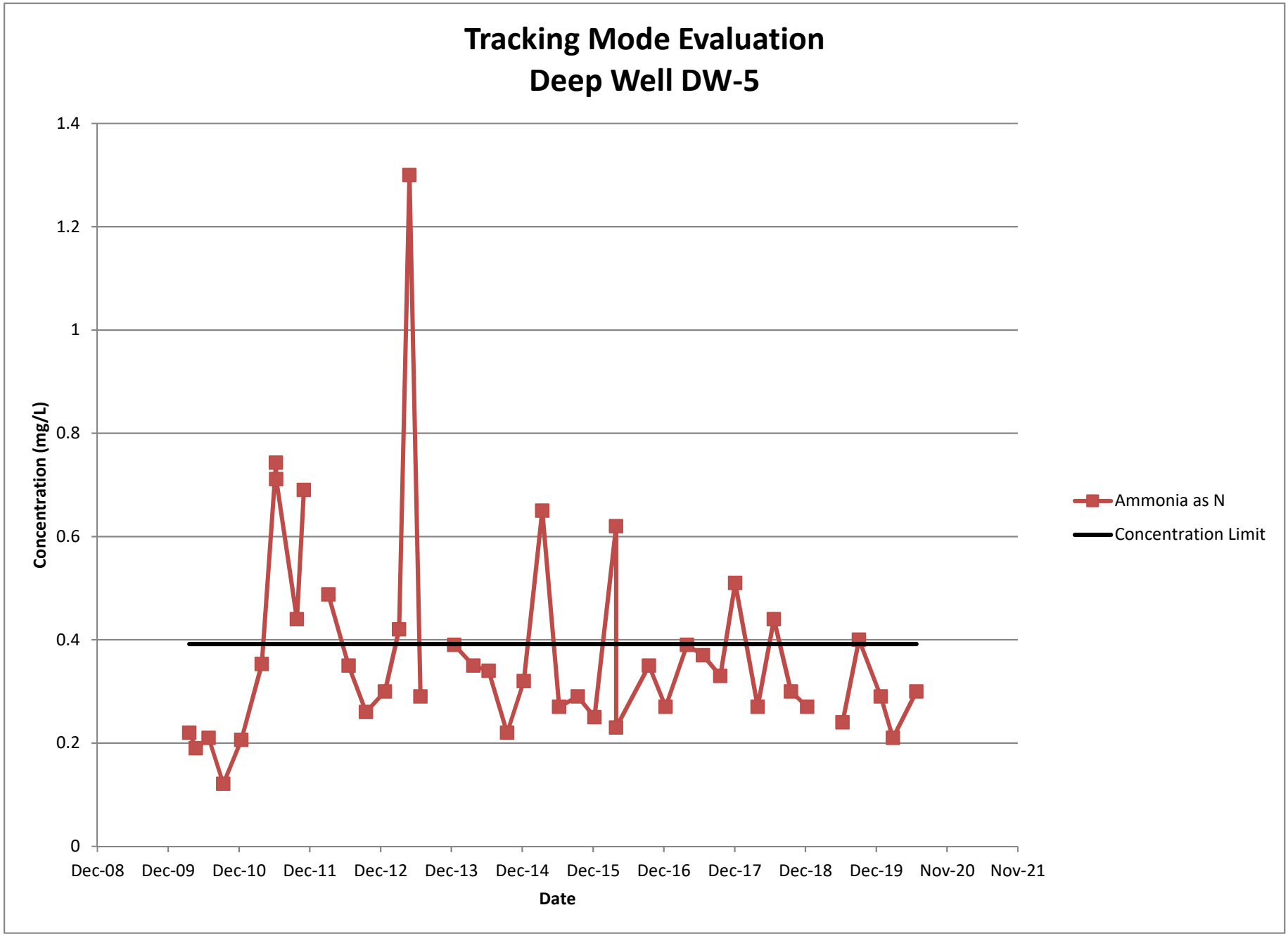

Tracking Mode Evaluation
Shallow Well MW-13R
Concentration (µg/L)
700
600
500
400
300
200
100
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Chemical Oxygen Demand (COD)
Concentration Limit

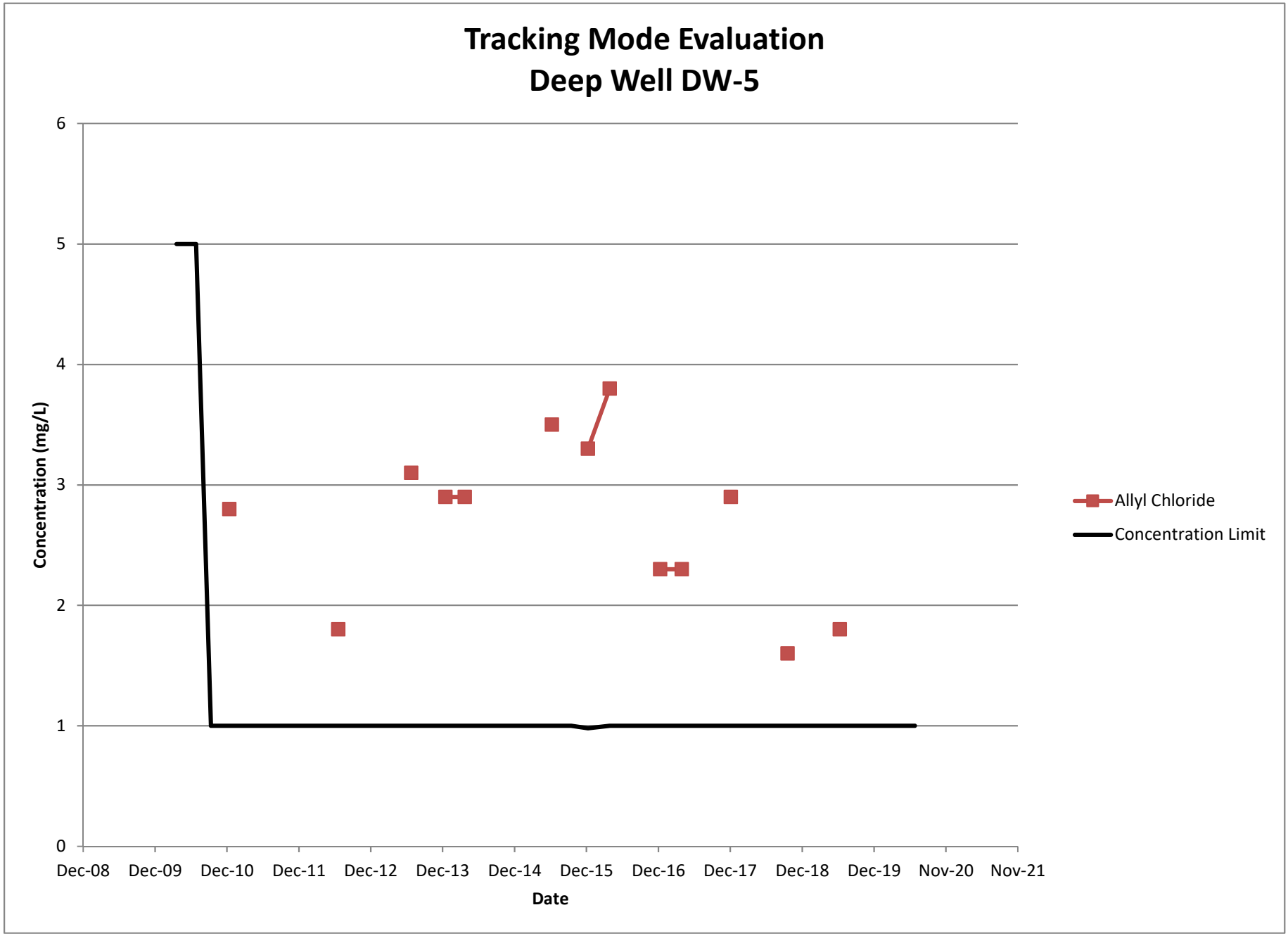

Tracking Mode Evaluation
Shallow Well MW-14
Concentration (mg/L)
1200
1000
800
600
400
200
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Alkalinity, Total
Concentration Limit

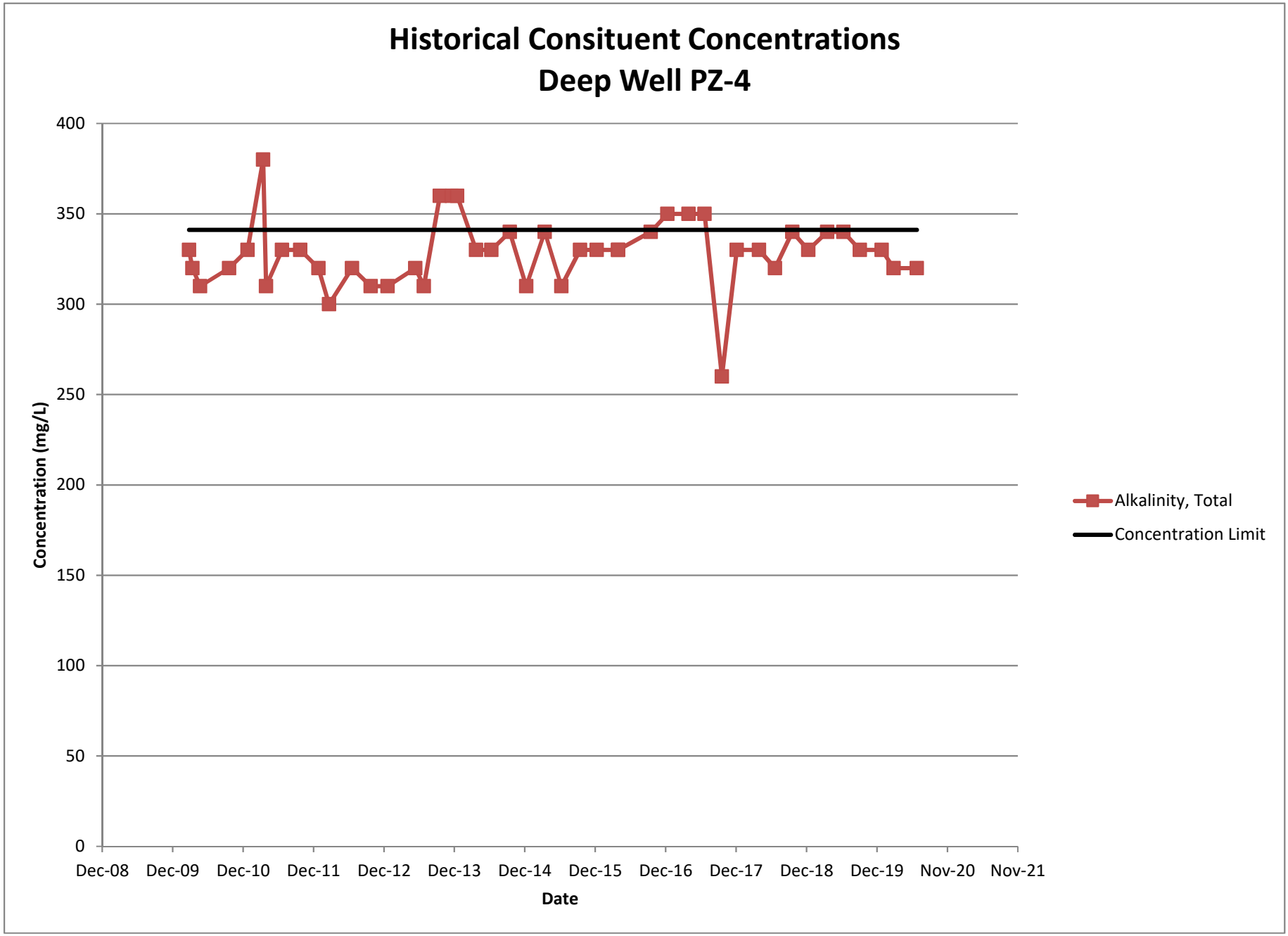

Tracking Mode Evaluation
Shallow Well MW-14
8000
7000
6000
5000
4000
3000
2000
1000
0
Concentration (mg/L)
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Total Dissolved Solids (TDS)
Concentration Limit

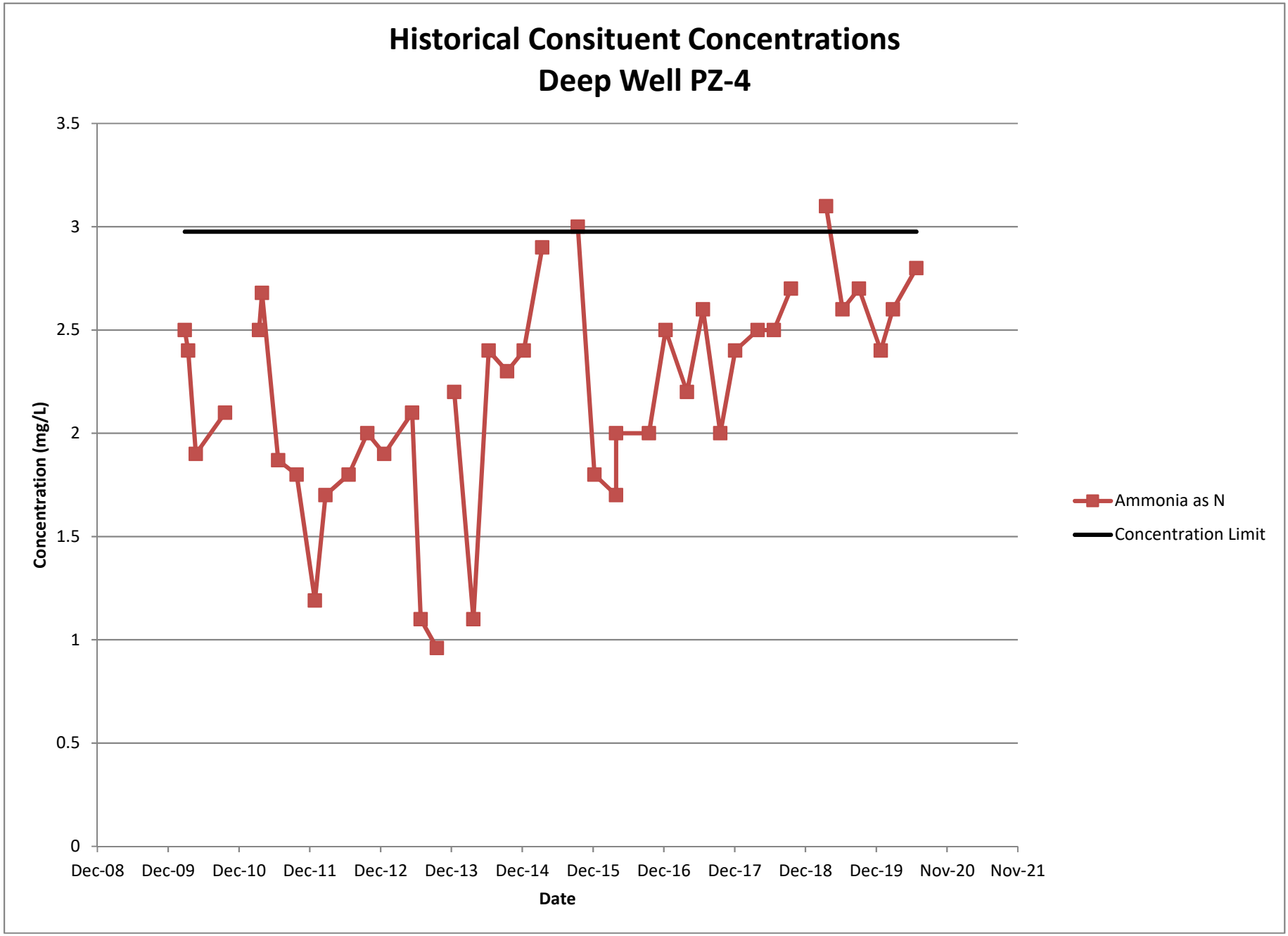

Tracking Mode Evaluation
Deep Well DW-3
Concentration (mg/L)
0
1
2
3
4
5
6
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Ammonia as N
Concentration Limit


Tracking Mode Evaluation
Deep Well DW-3
Concentration (mg/L)
180
160
140
120
100
80
60
40
20
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Alkalinity
Concentration Limit


Tracking Mode Evaluation
Deep Well DW-5
Concentration (mg/L)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Ammonia as N
Concentration Limit


Tracking Mode Evaluation
Deep Well DW-5
Concentration (mg/L)
6
5
4
3
2
1
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Allyl Chloride
Concentration Limit


Historical Consituent Concentrations
Deep Well PZ-4
Concentration (mg/L)
400
350
300
250
200
150
100
50
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Alkalinity, Total
Concentration Limit


Historical Consituent Concentrations
Deep Well PZ-4
Concentration (mg/L)
3.5
3
2.5
2
1.5
1
0.5
0
Dec-08
Dec-09
Dec-10
Dec-11
Dec-12
Dec-13
Dec-14
Dec-15
Dec-16
Dec-17
Dec-18
Dec-19
Nov-20
Nov-21
Date
Ammonia as N
Concentration Limit