

## FIGURES

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**LEGEND**

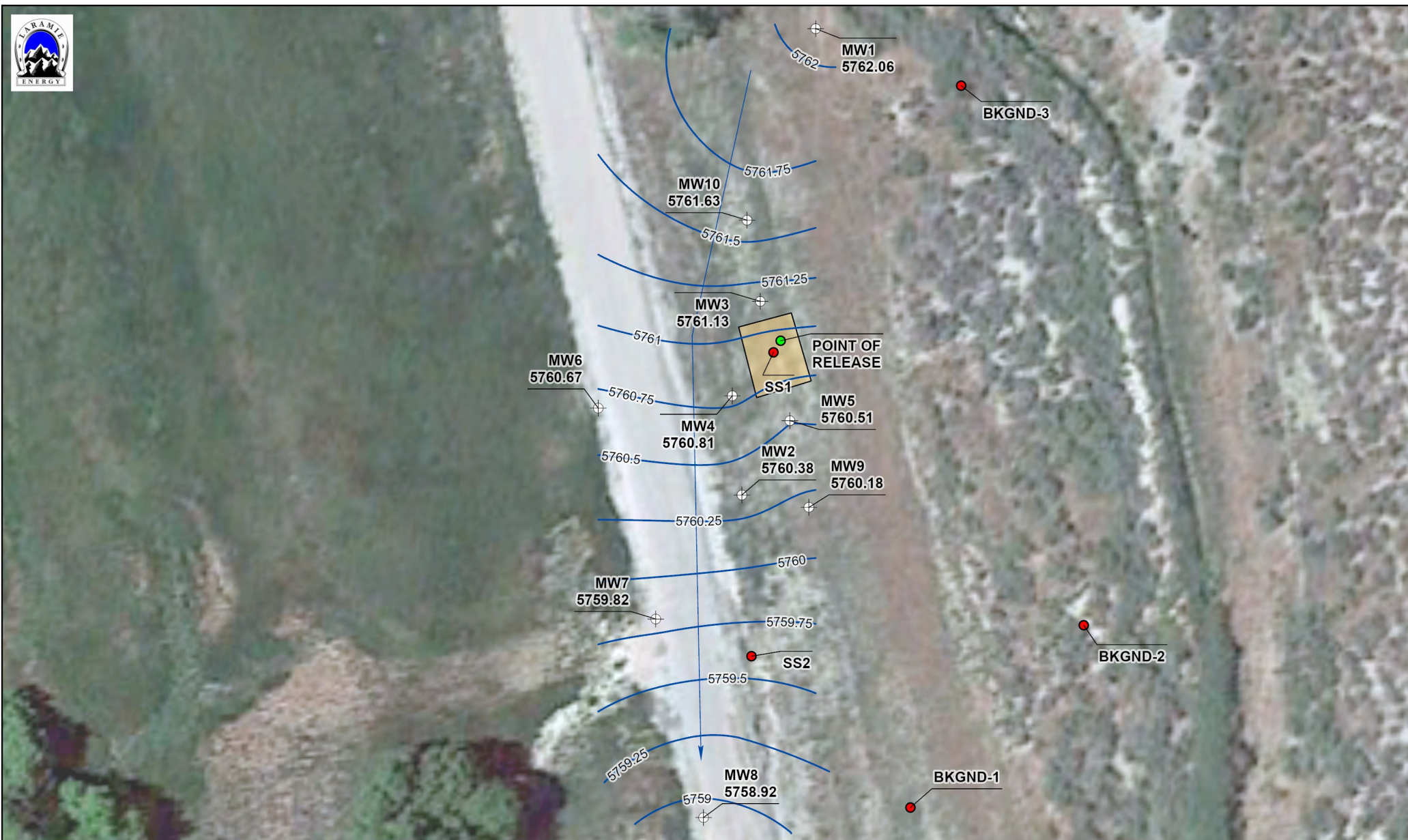
Monitoring Well	Spill Origin	Excavation
Soil Sample Location	Surface Water Sample	

0 60 120 Feet

1 inch = 60 Feet

Project No: 021-054	<b>Baker Canyon Spill Map</b> Laramie Energy Section 8, T7S R97W. 6th P.M. Garfield County, Colorado	 330 Grand Avenue, Unit C Grand Junction, CO 81501 970-549-1015	Figure
Map By: NDB			1
Date: 10/19/2021			





LEGEND

- Spill Origin
- Soil Sample Location
- ⊕ Monitoring Well
- Excavation
- Flow Direction
- Groundwater Potentiometric Contour (CI = 0.25 ft)

0 50 100 Feet  
1 inch = 50 Feet



Project No: 021-054

Map By: NDB

Date: 11/4/2021

**Baker Canyon Potentiometric Map**  
Groundwater Level Measurements Collected on 10/21/2021  
Laramie Energy  
Section 8, T7S R97W. 6th P.M.  
Garfield County, Colorado



330 Grand Avenue, Unit C  
Grand Junction, CO 81501  
970-549-1015

Figure

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## TABLES

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Table 1A  
Baker Canyon Spill  
MW1 Soil Analytical Results

LABORATORY DATA SUMMARY																
Sample ID	SB1-BKGDND-1 (MW1)	SB1-BKGDND-1 (MW1)	SB1-BKGDND-1 (MW1)	SB1-BKGDND-1 (MW1)	SB1-BKGDND-2 (MW1)	SB1-BKGDND-2 (MW1)	SB1-BKGDND-2 (MW1)	SB1-BKGDND-2 (MW1)	SB1-BKGDND-3 (MW1)	SB1-BKGDND-3 (MW1)	SB1-BKGDND-3 (MW1)	SB1-BKGDND-3 (MW1)	COGCC TABLE 915-1 CONCENTRATION LEVELS			UNITS
Sample Depth	8.5-10.5'	8.5-10.5'	8.5-10.5'	8.5-10.5'	23.5-25.5'	23.5-25.5'	23.5-25.5'	23.5-25.5'	48.5-50.5'	48.5-50.5'	48.5-50.5'	48.5-50.5'				
Longitude	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976	39.464976				
Latitude	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553	-108.243553				
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab				
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring				
Sample Date	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021				
Analytical Parameters													Residential Soil Screening Level	Protection of Groundwater Screening Level		
TPH																
TPH Gasoline Range Organics	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	500	mg/kg		
TPH Diesel Range Organics	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT				
TPH Oil Range Organics	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT				
TOTAL TPH	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT				
BTEX																
Benzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.2	0.0026	mg/kg	
Toluene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	490	0.69	mg/kg	
Ethylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	5.8	0.78	mg/kg	
Total Xylenes	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	58	9.9	mg/kg	
TMB																
1,2,4-Trimethylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	0.0081	mg/kg	
1,3,5-Trimethylbenzene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	27	0.0087	mg/kg	
Metals																
Arsenic	12.4	12.9	12.5	16.4	6.55	6.25	9.28	6.25	7.72	10.4	13.4	8.62	0.68	0.29	mg/kg	
Barium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15,000	82	mg/kg	
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	71	0.38	mg/kg	
Chromium (Hexavalent)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.3	0.00067	mg/kg	
Copper	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3,100	46	mg/kg	
Lead	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	14	mg/kg	
Nickel	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1,500	26	mg/kg	
Selenium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	390	0.26	mg/kg	
Silver	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	390	0.8	mg/kg	
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	23,000	370	mg/kg	
SAR Metals Analysis																
Sodium Adsorption Ratio	1.38	NT	NT	NT	NT	1.47	NT	NT	NT	8.31	NT	NT	NT	<6	ratio	
Polynuclear Aromatic Hydrocarbons																
Acenaphthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	360	0.55	mg/kg	
Anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1,800	5.8	mg/kg	
Benzo(a)anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.1	0.011	mg/kg	
Benzo(a)pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.11	0.24	mg/kg	
Benzo(b)fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.1	0.3	mg/kg	
Benzo(k)fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	11	2.9	mg/kg	
Chrysene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	110	9	mg/kg	
Dibenzo(a,h)anthracene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.11	0.096	mg/kg	
Fluoranthene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	240	8.9	mg/kg	
Fluorene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	240	0.54	mg/kg	
Indeno(1,2,3-cd)pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.1	0.98	mg/kg	
1-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	18	0.006	mg/kg	
2-Methylnaphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	24	0.019	mg/kg	
Naphthalene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	0.0038	mg/kg	
Pyrene	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	180	1.3	mg/kg	
General Chemistry																
Boron	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2		mg/L	
Specific Conductivity	0.401	NT	NT	NT	0.645	NT	NT	NT	0.819	NT	NT	NT	<4		mmhos/cm	
pH	8.46	NT	NT	NT	8.60	NT	NT	NT	8.58	NT	NT	NT	6-8.3		su	

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
mmhos/cm - millimhos per centimeter  
mv - millivolts  
su - standard units  
NA - not applicable  
NT - parameter was not tested  
ND - not detected above method detection limit  
TB - Samples received past/ too close to holding time expiration  
V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.  
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.  
Over COGCC Table 915-1 concentration levels.



**Table 1B**  
**Baker Canyon Spill**  
**MW2 Soil Analytical Results**

LABORATORY DATA SUMMARY										
Sample ID	SB2-SS1 (MW2)	SB2-SS2 (MW2)	SB2-SS3 (MW2)	SB2-SS4 (MW2)	SB2-SS5 (MW2)	SB2-SS6 (MW2)	SB2-SS7(MW2)	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Sample Depth	8-10'	15-17'	20-22'	25-27'	30-32'	35-37'	40-42'			
Longitude	39.464605	39.464605	39.464605	39.464605	39.464605	39.464605	39.464605			
Latitude	-108.243642	-108.243642	-108.243642	-108.243642	-108.243642	-108.243642	-108.243642			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring			
Sample Date	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021			
Analytical Parameters								Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH										
TPH Gasoline Range Organics	0.412	0.322	0.846	0.595	1.07	0.567	0.546	500		mg/kg
TPH Diesel Range Organics	20.3	23.2	27.4	5.49	ND	ND	ND			
TPH Oil Range Organics	86.7	92.7	112	20.4	ND	4.88	9.62			
TOTAL TPH	107.412	116.222	140.246	26.485	1.07	5.447	10.166			
BTEX										
Benzene	0.00135	ND	ND	0.00105	ND	0.0012	ND	1.2	0.0026	mg/kg
Toluene	0.00507	ND	ND	0.00567	ND	0.00657	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	ND	ND	ND	0.01190	ND	ND	ND	58	9.9	mg/kg
TMB										
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals										
Arsenic	12	14.5	10.2	8.37	6.71	7.35	8.53	0.68	0.29	mg/kg
Barium	287	315	294	194	104	176	178	15,000	82	mg/kg
Cadmium	ND	ND	ND	ND	ND	ND	ND	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	19.3	21.5	17.4	19	18	18	18.5	3,100	46	mg/kg
Lead	11.2	13.6	10.4	10.8	12.4	9.66	10.3	400	14	mg/kg
Nickel	19.1	21	16.4	16.9	16.4	16.5	16.5	1,500	26	mg/kg
Selenium	ND	ND	ND	ND	ND	2.22	2.17	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	57.9	55.7	53.2	60.5	59.4	52.6	55.2	23,000	370	mg/kg
SAR Metals Analysis										
Sodium Adsorption Ratio	1.54	1.59	1.68	1.48	1.75	3.44	5.2	<6		ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnapthalene	ND	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry										
Boron	0.275	0.272	0.295	0.286	0.312	0.326	0.326	2		mg/L
Specific Conductivity	0.505	0.442	0.408	0.450	0.400	0.546	0.681	<4		mmhos/cm
pH	8.42	8.51	8.64	8.48	8.74	8.67	8.70	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

**Table 1C**  
**Baker Canyon Spill**  
**MW3 Soil Analytical Results**

LABORATORY DATA SUMMARY										
Sample ID	SB3-SS1 (MW3)	SB3-SS2 (MW3)	SB3-SS3 (MW3)	SB3-SS4 (MW3)	SB3-SS5 (MW3)	SB3-SS6 (MW3)	SB3-SS7 (MW3)	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Sample Depth	8-10'	15-17'	20-22'	25-27'	30-32'	35-37'	40-42'			
Longitude	39.464750	39.464750	39.464750	39.464750	39.464750	39.464750	39.464750			
Latitude	-108.24361	-108.24361	-108.24361	-108.24361	-108.24361	-108.24361	-108.24361			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021	4/29/2021			
Analytical Parameters								Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH										
TPH Gasoline Range Organics	464	257	118	1440	0.883	0.897	0.476	500		mg/kg
TPH Diesel Range Organics	0.377	18.1	26.4	62.7	ND	ND	ND			
TPH Oil Range Organics	32	65.4	101	115	ND	6.58	7.47			
TOTAL TPH	496.377	340.5	245.4	1617.7	0.883	7.477	7.946			
BTEX										
Benzene	0.377	0.281	0.657	1.36	0.00215	0.00104	ND	1.2	0.0026	mg/kg
Toluene	32	10.2	1.99	37.5	0.00666	ND	ND	490	0.69	mg/kg
Ethylbenzene	4.91	0.887	0.0836	3.05	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	76.6	12.2	1.15	44.3	ND	ND	ND	58	9.9	mg/kg
TMB										
1,2,4-Trimethylbenzene	1.9	0.154	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	1.82	0.243	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals										
Arsenic	15.5	8.84	6.02	4.43	7.46	7.23	6.97	0.68	0.29	mg/kg
Barium	279	419	207	181	197	169	124	15,000	82	mg/kg
Cadmium	ND	ND	ND	ND	ND	ND	ND	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	19.5	17.8	15.7	16.6	20.6	16.8	17.3	3,100	46	mg/kg
Lead	13	10.8	7.12	9.56	10.9	9.4	12.2	400	14	mg/kg
Nickel	20.3	17.7	12.1	14.1	17	15.7	16.6	1,500	26	mg/kg
Selenium	ND	ND	ND	ND	2.26	ND	ND	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	65.2	62.3	43.9	51.2	56.2	52.6	57.9	23,000	370	mg/kg
SAR Metals Analysis										
Sodium Adsorption Ratio	1.81	1.39	1.45	1.86	2.05	7.30	6.54	<6		ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	0.0778	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry										
Boron	0.242	0.307	0.282	0.328	0.346	0.408	ND	2		mg/L
Specific Conductivity	0.205	0.288	0.246	0.326	0.372	0.53	0.52	<4		mmhos/cm
pH	8.71	8.51	8.12	8.51	8.41	8.83	8.97	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

**Table 1D**  
**Baker Canyon Spill**  
**MW4 Soil Analytical Results**

LABORATORY DATA SUMMARY										
Sample ID	SB4-SS1 (MW4)	SB4-SS2 (MW4)	SB4-SS3 (MW4)	SB4-SS4 (MW4)	SB4-SS5 (MW4)	SB4-SS6 (MW4)	SB4-SS7 (MW4)	COGCC TABLE 915-1 CONCENTRATION LEVELS		UNITS
Sample Depth	8-10'	15-17'	20-22'	25-27'	30-32'	35-37'	40-42'			
Longitude	39.464682	39.464682	39.464682	39.464682	39.464682	39.464682	39.464682			
Latitude	-108.243651	-108.243651	-108.243651	-108.243651	-108.243651	-108.243651	-108.243651			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021			
Analytical Parameters								Residential Soil Screening Level	Protection of Groundwater Screening Level	
TPH								500		mg/kg
TPH Gasoline Range Organics	59.1	2.17	2.89	0.683	0.697	0.573	7.75			
TPH Diesel Range Organics	18.8	29.7	15.9	8.04	ND	ND	8.11			
TPH Oil Range Organics	103	114	59.4	28.6	4.66	8.41	25.8			
TOTAL TPH	180.9	145.87	78.19	37.323	5.357	8.983	41.66			
BTEX										
Benzene	0.0293	0.0054	0.0022	0.00411	ND	ND	ND	1.2	0.0026	mg/kg
Toluene	1.04	0.00585	ND	0.0155	ND	ND	ND	490	0.69	mg/kg
Ethylbenzene	0.0255	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	0.1	ND	ND	0.0	ND	ND	ND	58	9.9	mg/kg
TMB										
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals										
Arsenic	9.56	8.58	8.62	8.98	5.69	7.14	7.75	0.68	0.29	mg/kg
Barium	262	182	132	191	139	161	202	15,000	82	mg/kg
Cadmium	ND	ND	ND	ND	ND	ND	ND	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	16.9	18.7	16.5	19.1	19.2	17.7	17.8	3,100	46	mg/kg
Lead	8.53	10.8	9.61	9.61	10.1	9.66	10.5	400	14	mg/kg
Nickel	16.9	17.3	15.2	14.2	17.9	16.6	16.7	1,500	26	mg/kg
Selenium	ND	ND	ND	ND	ND	ND	2.02	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	52	55.4	52.9	50.6	59.8	55.4	58.7	23,000	370	mg/kg
SAR Metals Analysis										
Sodium Adsorption Ratio	1.93	1.64	1.69	1.39	4.64	5.64	6.36	<6		ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Naphthalene	ND	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry										
Boron	0.273	0.308	0.313	0.251	0.39	0.359	0.41	2		mg/L
Specific Conductivity	0.358	0.282	0.239	0.449	0.495	0.459	0.686	<4		mmhos/cm
pH	8.35	8.58	8.52	8.3	8.88	8.97	8.84	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels



**Table 1E**  
**Baker Canyon Spill**  
**MW5 Soil Analytical Results**

LABORATORY DATA SUMMARY										
Sample ID	SB5-SS1 (MW5)	SB5-SS2 (MW5)	SB5-SS3 (MW5)	SB5-SS4 (MW5)	SB5-SS5 (MW5)	SB5-SS6 (MW5)	SB5-SS7 (MW5)	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Sample Depth	8-10'	15-17'	20-22'	25-27'	30-32'	35-37'	40-42'			
Longitude	39.464671	39.464671	39.464671	39.464671	39.464671	39.464671	39.464671			
Latitude	-108.243593	-108.243593	-108.243593	-108.243593	-108.243593	-108.243593	-108.243593			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021	4/30/2021			
Analytical Parameters								Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH										
TPH Gasoline Range Organics	223	112	1.99	8.89	0.886	ND	0.348	500		mg/kg
TPH Diesel Range Organics	19.3	35.5	14	19.5	ND	ND	ND			
TPH Oil Range Organics	83	98	58.3	49.7	ND	11.3	10.7			
TOTAL TPH	325.3	245.5	74.29	78.09	0.886	11.3	11.048			
BTEX										
Benzene	0.116	0.197	0.00478	0.865	0.00302	0.00123	ND	1.2	0.0026	mg/kg
Toluene	17.1	0.161	0.0165	13.1	0.0398	0.00863	ND	490	0.69	mg/kg
Ethylbenzene	0.176	ND	ND	1.17	0.00359	ND	ND	5.8	0.78	mg/kg
Total Xylenes	2.0	0.103	0.0117	18.3	0.06	0.01	ND	58	9.9	mg/kg
TMB										
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.00686	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.00537	ND	ND	27	0.0087	mg/kg
Metals										
Arsenic	8.64	9.05	7.5	8.89	7.59	7.02	7.93	0.68	0.29	mg/kg
Barium	236	240	138	129	164	195	195	15,000	82	mg/kg
Cadmium	ND	ND	ND	ND	ND	ND	ND	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	16.6	18	16.9	16.7	18.8	18.1	15.8	3,100	46	mg/kg
Lead	8.64	9.23	9.38	10.5	9.91	8.34	9.24	400	14	mg/kg
Nickel	14.6	17.1	15.4	14.8	16	16.4	16.2	1,500	26	mg/kg
Selenium	ND	ND	ND	ND	ND	ND	ND	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	45.6	55.3	54	55.1	55.9	54.9	55.6	23,000	370	mg/kg
SAR Metals Analysis										
Sodium Adsorption Ratio	1.51	1.42	1.76	1.68	2.14	6.89	8.44	<6		ratio
Polynuclear Aromatic Hydrocarbons										
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	0.110	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry										
Boron	0.324	0.384	0.353	0.223	0.345	0.324	0.333	2		mg/L
Specific Conductivity	0.291	1.65	0.359	0.389	0.444	0.619	0.712	<4		mmhos/cm
pH	8.34	8.00	8.49	8.40	8.55	9.06	8.93	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

**Table 1F**  
**Baker Canyon Spill**  
**MW6 Soil Analytical Results**

LABORATORY DATA SUMMARY									
Sample ID	MW6 (5-7)	MW6 (10-12)	MW6 (15-17)	MW6 (20-22)	MW6 (25-27)	MW6 (30-32)	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Sample Depth	5-7'	10-12'	15-17'	20-22'	25-27'	30-32'			
Longitude	-108.243791	-108.243791	-108.243791	-108.243791	-108.243791	-108.243791			
Latitude	39.4646747	39.4646747	39.4646747	39.4646747	39.4646747	39.4646747			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021			
Analytical Parameters							Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH									
TPH Gasoline Range Organics	0.645	0.253	0.618	0.415	0.629	0.462	500		mg/kg
TPH Diesel Range Organics	40.6	155	35.7	12.9	9.83	7.23			
TPH Oil Range Organics	127	582	105	43.2	35.5	23.1			
TOTAL TPH	168.245	737.253	141.318	56.515	45.959	30.792			
BTEX									
Benzene	ND	ND	ND	ND	ND	ND	1.2	0.0026	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	58	9.9	mg/kg
TMB									
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals									
Arsenic	7.81	12.7	9.60	30.4	20.4	7.70	0.68	0.29	mg/kg
Barium	239	272	184	195	178	154	15,000	82	mg/kg
Cadmium	0.632	0.602	0.630	0.587	0.648	0.539	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	25.4	24.9	21.4	20.6	19.4	17.5	3,100	46	mg/kg
Lead	11.8	15.4	11.3	11.2	10.3	11.5	400	14	mg/kg
Nickel	19.8	18.4	19.0	17.7	16.2	16.4	1,500	26	mg/kg
Selenium	1.31	2.09	ND	1.53 J	2.32	0.922 J	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	68.1	44.1	55.2	52.6	54.5	52.6	23,000	370	mg/kg
SAR Metals Analysis									
Sodium Adsorption Ratio	7.55	2.39	2.02	2.86	3.42	2.96	<6		ratio
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnapthalene	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnapthalene	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry									
Boron	0.503	0.322	0.320	0.260	0.255	0.387	2		mg/L
Specific Conductivity	0.750	0.579	0.718	0.483	0.628	0.587	<4		mmhos/cm
pH	7.94	8.22	8.05	8.29	8.36	8.31	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

**Table 1G**  
**Baker Canyon Spill**  
**MW7 Soil Analytical Results**

LABORATORY DATA SUMMARY									
Sample ID	MW7 (5-7)	MW7 (10-12)	MW7 (15-17)	MW7 (20-22)	MW7 (25-27)	MW7 (30-32)	COGCC TABLE 915-1 CONCENTRATION LEVELS		
Sample Depth	5-7'	10-12'	15-17'	20-22'	25-27'	30-32'			
Longitude	-108.243753	-108.243753	-108.243753	-108.243753	-108.243753	-108.243753			
Latitude	39.4644909	39.4644909	39.4644909	39.4644909	39.4644909	39.4644909			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021			
Analytical Parameters							Residential Soil Screening Level	Protection of Groundwater Screening Level	UNITS
TPH									
TPH Gasoline Range Organics	0.701	0.394	0.373	0.344	0.332	0.388	500		mg/kg
TPH Diesel Range Organics	8.35	59.0	13.3	14.4	2.14 J	5.60			
TPH Oil Range Organics	32.1	146	37.8	73.3	8.21	17.0			
TOTAL TPH	41.151	205.394	51.473	88.044	10.682	25.128			
BTEX									
Benzene	ND	ND	ND	ND	ND	ND	1.2	0.0026	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	58	9.9	mg/kg
TMB									
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals									
Arsenic	6.09	8.52	7.52	2.77	5.47	5.74	0.68	0.29	mg/kg
Barium	145	259	137	222	137	377	15,000	82	mg/kg
Cadmium	0.653	0.581	0.578	0.551	0.513	0.578	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	20.2	16.8	21.1	18.4	20.6	16.7	3,100	46	mg/kg
Lead	11.5	9.69	10.8	9.46	8.82	8.95	400	14	mg/kg
Nickel	17.3	16.2	19.1	17.4	16.0	15.6	1,500	26	mg/kg
Selenium	1.11	2.61	1.89 J	2.16	1.80 J	1.38	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	77.3	47.9	54.8	52.3	51.5	49.4	23,000	370	mg/kg
SAR Metals Analysis									
Sodium Adsorption Ratio	1.20	2.06	1.97	2.87	3.83	4.27	<6		ratio
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry									
Boron	0.672	0.347	0.382	0.206	0.246	0.246	2		mg/L
Specific Conductivity	3.880	2.330	1.110	0.575	0.653	2.280	<4		mmhos/cm
pH	7.92	7.85	7.93	8.29	8.38	8.33 T8	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels



**Table 1H  
Baker Canyon Spill  
MW8 Soil Analytical Results**

LABORATORY DATA SUMMARY									
Sample ID	MW8 (5-7)	MW8 (10-12)	MW8 (15-17)	MW8 (20-22)	MW8 (25-27)	MW8 (30-32)	COGCC TABLE 915-1 CONCENTRATION LEVELS		UNITS
Sample Depth	5-7'	10-12'	15-17'	20-22'	25-27'	30-32'			
Longitude	-108.2437057	-108.2437057	-108.2437057	-108.2437057	-108.2437057	-108.2437057			
Latitude	39.4643563	39.4643563	39.4643563	39.4643563	39.4643563	39.4643563			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	9/3/2021	9/3/2021	9/3/2021	9/3/2021	9/3/2021	9/3/2021			
Analytical Parameters							Residential Soil Screening Level	Protection of Groundwater Screening Level	
TPH									
TPH Gasoline Range Organics	0.245	0.214	0.186	0.274	0.300	0.721	500		mg/kg
TPH Diesel Range Organics	ND	2.33 J	1.89 J	2.66 J	3.16 J	ND			
TPH Oil Range Organics	0.595 J	1.03 J	ND	0.859 J	0.965 J	ND			
TOTAL TPH	0.840	3.574	2.076	3.793	4.425	0.721			
BTEX									
Benzene	ND	ND	ND	ND	ND	ND	1.2	0.0026	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	ND	0.000925 J	ND	ND	ND	ND	58	9.9	mg/kg
TMB									
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals									
Arsenic	8.29	7.71	12.6	9.86	6.79	7.39	0.68	0.29	mg/kg
Barium	159 O1	181	245	163	172	148	15,000	82	mg/kg
Cadmium	0.650	0.623	0.558	0.709	0.509	0.467 J	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	20.4	17.5	18.8	16.4	17.7	16.9	3,100	46	mg/kg
Lead	11.0	10.0	15.7	10.0	9.7	8.81	400	14	mg/kg
Nickel	17.1	18.5	18.3	16.8	15.2	14.5	1,500	26	mg/kg
Selenium	1.53 J	2.01	1.64 J	1.59 J	1.06 J	2.68	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	59.5 O1	57.6	54.3	55.2	55.5	52.1	23,000	370	mg/kg
SAR Metals Analysis									
Sodium Adsorption Ratio	0.904	0.780	1.41	2.62	3.21	2.43	<6		ratio
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnapthalene	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnapthalene	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry									
Boron	1.10	0.339	0.505	0.279	0.253	0.237	2		mg/L
Specific Conductivity	0.559	0.791	1.280	0.754	0.578	0.577	<4		mmhos/cm
pH	8.12 T8	8.18 T8	8.03 T8	8.26 T8	8.55 T8	8.60 T8	6-8.3		su

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
mmhos/cm - millimhos per centimeter  
mv - millivolt  
su - standard units  
NA - not applicable  
NT - parameter was not tested  
ND - not detected above method detection limit  
T8 - Samples received past/too close to holding time expiration  
V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.  
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.  
Over COGCC Table 915-1 concentration levels.

**Table 11**  
**Baker Canyon Spill**  
**MW9 Soil Analytical Results**

LABORATORY DATA SUMMARY								
Sample ID	MW9 (10-12)	MW9 (15-17)	MW9 (20-22)	MW9 (25-27)	MW9 (30-32)	COGCC TABLE 915-1 CONCENTRATION LEVELS		UNITS
Sample Depth	10-12'	15-17'	20-22'	25-27'	30-32'			
Longitude	-108.2435582	-108.2435582	-108.2435582	-108.2435582	-108.2435582			
Latitude	39.4646064	39.4646064	39.4646064	39.4646064	39.4646064			
Sample Type	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	9/3/2021	9/3/2021	9/27/2021	9/27/2021	9/27/2021			
Analytical Parameters						Residential Soil Screening Level	Protection of Groundwater Screening Level	
TPH								
TPH Gasoline Range Organics	0.310	0.384	0.540	1.04	0.810	500		mg/kg
TPH Diesel Range Organics	2.62 J	6.93	24.1	14.5	3.75 J			
TPH Oil Range Organics	1.78 J	11.8	70.7	32.2	9.10			
TOTAL TPH	4.71	19.114	95.340	47.74	13.660			
BTEX								
Benzene	ND	ND	ND	0.604	0.00143	1.2	0.0026	mg/kg
Toluene	ND	ND	ND	0.00160 J	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	0.0239	ND	5.8	0.78	mg/kg
Total Xylenes	ND	ND	ND	0.162	0.00200 J	58	9.9	mg/kg
TMB								
1,2,4-Trimethylbenzene	ND	ND	ND	0.0124	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	0.0119	ND	27	0.0087	mg/kg
Metals								
Arsenic	10.7	8.86	6.31 O1	7.80	5.85	0.68	0.29	mg/kg
Barium	269	183	199 J6 O1	164	118	15,000	82	mg/kg
Cadmium	0.582	0.640	0.584	0.491	0.432 J	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	18.2	18.6	21.3 O1	21.4	15.8	3,100	46	mg/kg
Lead	12.0	9.84	11.3 O1	9.88	11.2	400	14	mg/kg
Nickel	16.8	18.0	17.4 O1	16.4	13.8	1,500	26	mg/kg
Selenium	1.58 J	1.91 J	ND	ND	ND	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	47.0	58.8	66.2	66.5	53.6	23,000	370	mg/kg
SAR Metals Analysis								
Sodium Adsorption Ratio	1.80	1.74	1.67	1.29	3.22	<6		ratio
Polynuclear Aromatic Hydrocarbons								
Acenaphthene	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnaphthalene	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnapthalene	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry								
Boron	0.284	0.423	0.441	0.240	0.293	2		mg/L
Specific Conductivity	0.266	0.363	0.372	0.433	0.398	<4		mmhos/cm
pH	8.51 T8	8.33 T8	8.52 T8	8.34 T8	8.91 T8	6-8.3		su

mg/kg - milligrams per kilogram  
mg/L - milligrams per liter  
J - indicates an estimated value  
mmhos/cm - millimhos per centimeter  
mv - millivolts  
su - standard units  
NA - not applicable  
NT - parameter was not tested  
ND - not detected above method detection limit  
T8 - Samples received postbox close to holding time expiration  
V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.  
Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.  
Over COGCC Table 915-1 concentration levels

**Table 1J**  
**Baker Canyon Spill**  
**MW10 Soil Analytical Results**

LABORATORY DATA SUMMARY									
Sample ID	MW10 (10-12)	MW10 (15-17)	MW10 (20-22)	MW10 (25-27)	MW10 (30-32)	MW10 (35-37)	COGCC TABLE 915-1 CONCENTRATION LEVELS		UNITS
Sample Depth	10-12'	15-17'	20-22'	25-27'	30-32'	35-37'			
Longitude	-108.243629	-108.243629	-108.243629	-108.243629	-108.243629	-108.243629			
Latitude	39.4648238	39.4648238	39.4648238	39.4648238	39.4648238	39.4648238			
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab			
Sample Description	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring	Soil boring			
Sample Date	9/27/2021	9/27/2021	9/27/2021	9/27/2021	9/27/2021	9/27/2021			
Analytical Parameters							Residential Soil Screening Level	Protection of Groundwater Screening Level	
TPH									
TPH Gasoline Range Organics	0.888	0.324 B	0.619	0.436	0.535	0.458	500		mg/kg
TPH Diesel Range Organics	6.50	7.37	33.8	ND	6.19	2.67 J			
TPH Oil Range Organics	32.6	31.3	101	4.39	19.9	8.97			
TOTAL TPH	39.988	38.994	135.419	4.826	26.625	0.916			
BTEX									
Benzene	ND	0.00103	ND	ND	ND	ND	1.2	0.0026	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	490	0.69	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	5.8	0.78	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	58	9.9	mg/kg
TMB									
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	30	0.0081	mg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	27	0.0087	mg/kg
Metals									
Arsenic	4.67	11.9	7.64	6.24	5.72	7.89	0.68	0.29	mg/kg
Barium	353	258	199	192	247	139	15,000	82	mg/kg
Cadmium	0.653	0.452 J	0.557	0.460 J	0.460 J	0.431 J	71	0.38	mg/kg
Chromium (Hexavalent)	ND	ND	ND	ND	ND	ND	0.3	0.00067	mg/kg
Copper	15.5	17.2	22.3	20.9	14.8	20.9	3,100	46	mg/kg
Lead	7.02	8.88	10.7	11.0	8.88	10.2	400	14	mg/kg
Nickel	14.0	16.0	18.2	16.7	14.5	16.7	1,500	26	mg/kg
Selenium	ND	ND	0.883 J	ND	ND	1.75	390	0.26	mg/kg
Silver	ND	ND	ND	ND	ND	ND	390	0.8	mg/kg
Zinc	47.4	51.4	63.3	59.5	51.0	57.3	23,000	370	mg/kg
SAR Metals Analysis									
Sodium Adsorption Ratio	1.36	1.53	1.50	1.64	1.09	1.47	<6		ratio
Polynuclear Aromatic Hydrocarbons									
Acenaphthene	ND	ND	ND	ND	ND	ND	360	0.55	mg/kg
Anthracene	ND	ND	ND	ND	ND	ND	1,800	5.8	mg/kg
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	1.1	0.011	mg/kg
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.11	0.24	mg/kg
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	1.1	0.3	mg/kg
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	11	2.9	mg/kg
Chrysene	ND	ND	ND	ND	ND	ND	110	9	mg/kg
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.11	0.096	mg/kg
Fluoranthene	ND	ND	ND	ND	ND	ND	240	8.9	mg/kg
Fluorene	ND	ND	ND	ND	ND	ND	240	0.54	mg/kg
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	1.1	0.98	mg/kg
1-Methylnapthalene	ND	ND	ND	ND	ND	ND	18	0.006	mg/kg
2-Methylnapthalene	ND	ND	ND	ND	ND	ND	24	0.019	mg/kg
Napthalene	ND	ND	ND	ND	ND	ND	2	0.0038	mg/kg
Pyrene	ND	ND	ND	ND	ND	ND	180	1.3	mg/kg
General Chemistry									
Boron	0.334	0.261	0.260	0.277	0.184 J	0.228	2		mg/L
Specific Conductivity	0.390	0.294	0.312	0.466	0.375	0.326	<4		mmhos/cm
pH	8.56 T8	8.49 T8	8.59 T8	8.42 T8	8.52 T8	8.46 T8	6-8.3		su

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past/too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels



**Table 1K**  
**Baker Canyon Spill**  
**Surface Soil Analytical Results**

LABORATORY DATA SUMMARY											
Sample ID	SS1 (EXCAVATED)	SS2	SS2 (RESAMPLE)	BKGND-1	BKGND-2	BKGND-3	BKGND-4	COGCC TABLE 915-1 CONCENTRATION LEVELS			UNITS
Sample Depth	0-6"	0-6"	0-6"	12-18"	12-18"	12-18"	12-18"				
Longitude	-108.243597	-108.24362	-108.24362	-108.243454	-108.243273	-108.243401	-108.243665				
Latitude	39.464715	39.464470	39.464470	39.464348	39.464495	39.464930	39.465035				
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab				
Sample Description	Soil - Surface (POR)	Soil - Surface End	Soil - Surface End	Soil	Soil	Soil	Soil				
Sample Date	4/20/2021	4/20/2021	10/21/2021	4/20/2021	4/20/2021	4/20/2021	4/20/2021				
Analytical Parameters								Residential Soil Screening Level	Protection of Groundwater Screening Level		
TPH											
TPH Gasoline Range Organics	10900	1.37	0.305	NT	NT	NT	NT	500		mg/kg	
TPH Diesel Range Organics	1480	7.23	2.28 J	NT	NT	NT	NT				
TPH Oil Range Organics	48	12.4	5.38	NT	NT	NT	NT				
TOTAL TPH	12428	21	7.965	NT	NT	NT	NT				
BTEX											
Benzene	83.8 V	0.0463	ND	NT	NT	NT	NT	1.2	0.0026	mg/kg	
Toluene	1030	0.362	ND	NT	NT	NT	NT	490	0.69	mg/kg	
Ethylbenzene	117 V	0.0173	ND	NT	NT	NT	NT	5.8	0.78	mg/kg	
Total Xylenes	1810	0.310	ND	NT	NT	NT	NT	58	9.9	mg/kg	
TMB											
1,2,4-Trimethylbenzene	187	0.0234	ND	NT	NT	NT	NT	30	0.0081	mg/kg	
1,3,5-Trimethylbenzene	171 V	0.0201	ND	NT	NT	NT	NT	27	0.0087	mg/kg	
Metals											
Arsenic	7.21	7.71	15.1	10.1	7.60	8.35	8.98	0.68	0.29	mg/kg	
Barium	163	202	238	NT	NT	NT	NT	15,000	82	mg/kg	
Cadmium	ND	ND	0.503	NT	NT	NT	NT	71	0.38	mg/kg	
Chromium (Hexavalent)	ND	ND	ND	NT	NT	NT	NT	0.3	0.00067	mg/kg	
Copper	17.6	15.5	10.9	NT	NT	NT	NT	3,100	46	mg/kg	
Lead	9.18	8.15	7.14	NT	NT	NT	NT	400	14	mg/kg	
Nickel	15.8	14.8	10.9	NT	NT	NT	NT	1,500	26	mg/kg	
Selenium	ND	ND	1.55 J	NT	NT	NT	NT	390	0.26	mg/kg	
Silver	ND	ND	ND	NT	NT	NT	NT	390	0.8	mg/kg	
Zinc	52.1	49.2	36.5	NT	NT	NT	NT	23,000	370	mg/kg	
SAR Metals Analysis											
Sodium Adsorption Ratio	14.4	5.35	1.09	8.87	2.55	0.666	1.34	<6		ratio	
Polynuclear Aromatic Hydrocarbons											
Acenaphthene	0.103	ND	ND	NT	NT	NT	NT	360	0.55	mg/kg	
Anthracene	ND	ND	ND	NT	NT	NT	NT	1,800	5.8	mg/kg	
Benzo(a)anthracene	ND	ND	ND	NT	NT	NT	NT	1.1	0.011	mg/kg	
Benzo(a)pyrene	ND	ND	ND	NT	NT	NT	NT	0.11	0.24	mg/kg	
Benzo(b)fluoranthene	ND	ND	ND	NT	NT	NT	NT	1.1	0.3	mg/kg	
Benzo(k)fluoranthene	ND	ND	ND	NT	NT	NT	NT	11	2.9	mg/kg	
Chrysene	ND	ND	ND	NT	NT	NT	NT	110	9	mg/kg	
Dibenzo(a,h)anthracene	ND	ND	ND	NT	NT	NT	NT	0.11	0.096	mg/kg	
Fluoranthene	ND	ND	ND	NT	NT	NT	NT	240	8.9	mg/kg	
Fluorene	0.310	ND	ND	NT	NT	NT	NT	240	0.54	mg/kg	
Indeno(1,2,3-cd)pyrene	ND	ND	ND	NT	NT	NT	NT	1.1	0.98	mg/kg	
1-Methylnapthalene	4.74	ND	ND	NT	NT	NT	NT	18	0.006	mg/kg	
2-Methylnapthalene	13.2	ND	ND	NT	NT	NT	NT	24	0.019	mg/kg	
Napthalene	7.94	ND	ND	NT	NT	NT	NT	2	0.0038	mg/kg	
Pyrene	ND	ND	ND	NT	NT	NT	NT	180	1.3	mg/kg	
General Chemistry											
Boron	0.683	0.885	0.827	0.911	0.868	0.453	0.433	2		mg/L	
Specific Conductivity	2.12	1.55	0.305	2.14	0.439	0.729	0.314	<4		mmhos/cm	
pH	7.77 T8	8.01 T8	8.12 T8	8.35 T8	8.50 T8	8.17 T8	8.60 T8	6-8.3		su	

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

T8 - Samples received past too close to holding time expiration

V - The sample volume is too high to evaluate accurate spike recoveries

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

Table 2  
Laramie Energy - Baker Canyon Spill  
Groundwater Analytical Results

	Organic Compounds in Groundwater							General Chemistry			Field Parameters						
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	-C	%	mg/L	mS/cm	mg/L	%	su
Table 915 Cleanup Concentration	5	560 - 1,000	700	1,400 - 10,000	140	67	67	<1.25 x BG	<1.25 x BG	<1.25 x BG	NA	NA	NA	NA	<1.25 x BG	NA	NA
Date	Benzene	Toluene	Ethylbenzene	Xylenes	Napthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Chloride	Sulfate	Total Dissolved Solids	Temperature	Dissolved Oxygen Saturation	Dissolved Oxygen	Specific Conductivity	Total Dissolved Solids	Salinity	pH
Conn Creek (SW1)																	
4/5/2021	ND	ND	ND	ND	ND	ND	ND	94.1	512	1370	NA	NA	NA	NA	NA	NA	NA
5/27/2021	ND	ND	ND	ND	ND	ND	ND	95.5	598	1500	NA	NA	NA	NA	NA	NA	NA
6/11/2021	ND	ND	ND	ND	ND	ND	ND	98.1	702	1560	NA	NA	NA	NA	NA	NA	NA
6/25/2021	ND	ND	ND	ND	ND J4	ND	ND	99.2	625	1430	NA	NA	NA	NA	NA	NA	NA
7/9/2021	ND	ND	ND	ND	ND	ND	ND	86.7	584	1520	NA	NA	NA	NA	NA	NA	NA
7/23/2021	ND	ND	ND	ND	ND	ND	ND	29.7	24.7	1270	NA	NA	NA	NA	NA	NA	NA
8/6/2021	ND	ND	ND	ND	ND	ND	ND	86.7	508	1400	NA	NA	NA	NA	NA	NA	NA
8/20/2021	ND	ND	ND	ND	ND	ND	ND	89.6	525	1400	NA	NA	NA	NA	NA	NA	NA
9/7/2021	ND	ND	ND	ND	ND	ND	ND	94.7	557	1330	NA	NA	NA	NA	NA	NA	NA
9/20/2021	ND	ND	ND	ND	ND	ND	ND	119	595	1620	NA	NA	NA	NA	NA	NA	NA
10/5/2021	ND	ND	ND	ND	ND	ND	ND	93	359	1190	NA	NA	NA	NA	NA	NA	NA
10/21/2021	ND	ND	ND	ND	ND	ND	ND	102	480	1350	NA	NA	NA	NA	NA	NA	NA
MW1 (BG)																	
5/4/2021	ND	ND	ND	ND	ND	ND	ND	83.4	837	1810	12.6	72.9	7.72	1.97	1339	1.01	6.84
6/11/2021	0.113 J	0.688 J	0.500 J	0.403 J	ND	ND	ND	71.7	523	1310	NA	NA	NA	NA	NA	NA	NA
6/25/2021	0.138 J	0.824 J	0.544 J	0.479 J	ND J4	ND	ND	72.8	386	1070	NA	NA	NA	NA	NA	NA	NA
7/9/2021	0.0970 J	0.719 J	0.412 J	0.353 J	ND	ND	ND	67.7	331	1040	NA	NA	NA	NA	NA	NA	NA
7/23/2021	0.143 J	0.730 J	0.396 J	0.308 J	ND	ND	ND	69.0	303	990	NA	NA	NA	NA	NA	NA	NA
8/6/2021	ND	0.557 J	0.173 J	ND	ND	0.370 J	ND	65.9	348	1120	NA	NA	NA	NA	NA	NA	NA
8/20/2021	ND	0.410 J	0.345 J	0.250 J	ND	ND	ND	65.1	349	1100	NA	NA	NA	NA	NA	NA	NA
9/7/2021	ND	0.518 J	0.347 J	0.272 J	ND	ND	ND	68.9	348	1210	NA	NA	NA	NA	NA	NA	NA
9/20/2021	0.127	0.818	0.513	0.344	ND	ND	ND	67.1	341	1120	NA	NA	NA	NA	NA	NA	NA
10/5/2021	ND	0.323 J	0.257 J	ND	ND	ND	ND	62.7	366	1150	NA	NA	NA	NA	NA	NA	NA
10/21/2021	0.0980 J	0.511 J	0.308 J	0.233 J	ND	ND	ND	71.9	382	1120	NA	NA	NA	NA	NA	NA	NA
MW2																	
5/4/2021	ND	1.56	ND	14.2	ND	ND	1.15	105	766	1760	12.8	49.6	5.21	2.34	1521	1.21	6.66
5/18/2021	13.7	14.3	1.46	19	ND	1.01	1.31	96.3	708	1710	NA	NA	NA	NA	NA	NA	NA
6/11/2021	69.8	46.9	4.37	63.6	ND	2.49	2.71	73.0 B	652	1970	NA	NA	NA	NA	NA	NA	NA
6/25/2021	42.5	5.72	2.96	41.3	ND J	1.46	1.31	82.8	599	1350	NA	NA	NA	NA	NA	NA	NA
7/9/2021	28.0	6.28	1.94	31.7	ND	0.849 J	1.57	75.3	621	1310	NA	NA	NA	NA	NA	NA	NA
7/23/2021	3.71	0.442 J	0.632 J	4.08 J	ND	ND	0.312 J	82.5	663	1450	NA	NA	NA	NA	NA	NA	NA
8/6/2021	34.4	11.4	5.61	83.2	ND	2.45	2.36	81.9	802	1810	NA	NA	NA	NA	NA	NA	NA
8/20/2021	5.58	0.538 J	1.03	5.59	ND	ND	0.432 J	85.3	866	1880	NA	NA	NA	NA	NA	NA	NA
9/7/2021	0.339 J	ND	ND	ND	ND	ND	ND	93.8	875	2020	NA	NA	NA	NA	NA	NA	NA
9/20/2021	0.681 J	0.636 J	0.612 J	0.394 J	ND	ND	ND	92.3	890	1980	NA	NA	NA	NA	NA	NA	NA
10/5/2021	0.971 J	1.100	0.622 J	1.940 J	ND	ND	0.165 J	90.9	900	1940	NA	NA	NA	NA	NA	NA	NA
10/21/2021	1.76	0.425 J	0.919 J	2.26 J	ND	ND	0.214 J	99.7	875	1970	NA	NA	NA	NA	NA	NA	NA
MW3																	
5/4/2021	1.42	6.06	ND	12.1	ND	ND	ND	71.4	487	1320	13.3	68.1	6.96	1.94	1261	0.99	6.82
6/11/2021	ND	1.49 J	ND	2.85 J	ND	ND	1.24 J	73.2	577	1320	NA	NA	NA	NA	NA	NA	NA
6/25/2021	64.7	103	7.16	113	ND	3.19	3.20	79.0	565	1330	NA	NA	NA	NA	NA	NA	NA
7/9/2021	3.01	1.28	0.329 J	4.90	ND	ND	0.181 J	66.3	496	1500	NA	NA	NA	NA	NA	NA	NA
7/23/2021	24.2	22.6	2.32	3.94	ND	1.10	1.24	71.9	502	1300	NA	NA	NA	NA	NA	NA	NA
8/6/2021	32.3	80.7	3.21	64.1	ND	1.74	1.79	75.7	576	1440	NA	NA	NA	NA	NA	NA	NA
8/20/2021	11.6	7.30	1.39	18.5	ND	0.829 J	0.869 J	75.4	560	1450	NA	NA	NA	NA	NA	NA	NA
9/7/2021	0.888 J	0.502 J	0.209 J	1.17 J	ND	ND	0.109 J	84.4	632	1530	NA	NA	NA	NA	NA	NA	NA
9/20/2021	0.319 J	ND	ND	0.335 J	ND	ND	ND	72.5	594	1530	NA	NA	NA	NA	NA	NA	NA
10/5/2021	0.358 J	0.391 J	ND	0.413 J	ND	ND	ND	81.3	693	1450	NA	NA	NA	NA	NA	NA	NA
10/21/2021	13.8	25.4	1.07	19.2	ND	0.537 J	0.555 J	78.8	609	1500	NA	NA	NA	NA	NA	NA	NA
MW4																	
5/4/2021	ND	ND	ND	3.97	ND	ND	1.95	104	966	1380	13.4	50.5	5.24	2.94	1911	1.54	7.02
5/18/2021	1.05	ND	ND	ND	ND	ND	ND	89.9	779	1430	NA	NA	NA	NA	NA	NA	NA
6/11/2021	ND	ND	ND	0.387 J	ND	ND	0.133 J	91.9 B	915	1440	NA	NA	NA	NA	NA	NA	NA
6/25/2021	0.171 J	ND	ND	0.252	ND J4	ND	ND	100	907	1460	NA	NA	NA	NA	NA	NA	NA
7/9/2021	ND	ND	ND	0.196 J	ND	ND	ND	97.9	1030	1410	NA	NA	NA	NA	NA	NA	NA
7/23/2021	14.5	39.3	1.13	16.8	ND	0.437 J	0.452 J	95.4	792	1340	NA	NA	NA	NA	NA	NA	NA
8/6/2021	0.143 J	0.496 J	ND	1.07 J	ND	ND	ND	111	1140	1470	NA	NA	NA	NA	NA	NA	NA
8/20/2021	2.09	2.80	0.378 J	1.78 J	ND	ND	0.129 J	97.5	924	1510	NA	NA	NA	NA	NA	NA	NA
9/7/2021	ND	ND	ND	ND	ND	ND	ND	114	968	1560	NA	NA	NA	NA	NA	NA	NA
9/20/2021	ND	ND	0.198 J	ND	ND	ND	ND	104	963	1530	NA	NA	NA	NA	NA	NA	NA
10/5/2021	1.26	0.836 J	0.350 J	0.706 J	ND	ND	ND	103	1030	2160	NA	NA	NA	NA	NA	NA	NA
10/21/2021	0.498 J	0.515 J	0.192 J	0.388 J	ND	ND	ND	128	1120	2240	NA	NA	NA	NA	NA	NA	NA
MW5																	
5/4/2021	36.8	71.5	1.67	58	ND	2.15	2.24	71.8	525	1380	13.4	41.7	4.34	2.08	1352	1.07	6.79
5/18/2021	164	328	7.52	116	ND	3.45	3.42	73.8	592	1430	NA	NA	NA	NA	NA	NA	NA
6/11/2021	340	741	21.9	304	ND	9.50	7.98	71.9	613	1440	NA	NA	NA	NA	NA	NA	NA
6/25/2021	361	419	11.5	187	ND J4	4.35 J	3.84 J	83.3	599	1460	NA	NA	NA	NA	NA	NA	NA
7/9/2021	180	58.3	2.02 J	30.9	ND	ND	ND	70.4	589	1410	NA	NA	NA	NA	NA	NA	NA
7/23/2021	333	217	8.43 J	127	ND	3.37 J	3.25 J	74.2	524	1340	NA	NA	NA	NA	NA	NA	NA
8/6/2021	425	250	9.03 J	150	ND	6.32 J	3.24 J	77.1	596	1470	NA	NA	NA	NA	NA	NA	NA
8/20/2021	445	140	9.50 J	136	ND	7.09 J	3.96 J	76.3	608	1510	NA	NA	NA	NA	NA	NA	NA
9/7/2021	321	23.0	3.92 J	51.6	ND	ND	1.47 J	81.0	605	1560	NA	NA	NA	NA	NA	NA	NA
9/20/2021	419	68.1	4.89	74.2	ND	2.46	2.28	83.4	601	1530	NA	NA	NA	NA	NA	NA	NA
10/5/2021	317	67.2	3.96 J	55.2	ND	ND	1.56 J	76.0	719	1640	NA	NA	NA	NA	NA	NA	NA
10/21/2021	570	158	11.9	141	ND	3.73 J	3.71 J	85.2	729	1650	NA	NA	NA	NA	NA	NA	NA

Table 2  
Laramie Energy - Baker Canyon Spill  
Groundwater Analytical Results

	Organic Compounds in Groundwater							General Chemistry			Field Parameters						
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	-C	%	mg/L	mS/cm	mg/L	%	su
Table 915 Cleanup Concentration	5	560 - 1,000	700	1,400 - 10,000	140	67	67	<1.25 x BG	<1.25 x BG	<1.25 x BG	NA	NA	NA	NA	<1.25 x BG	NA	NA
Date	Benzene	Toluene	Ethylbenzene	Xylenes	Napthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Chloride	Sulfate	Total Dissolved Solids	Temperature	Dissolved Oxygen Saturation	Dissolved Oxygen	Specific Conductivity	Total Dissolved Solids	Salinity	pH
MW6																	
9/7/2021	ND	ND	0.145 J	ND	ND	ND	ND	136	967	2250	NA	NA	NA	NA	NA	NA	NA
9/20/2021	ND	0.340 J	0.285 J	0.189 J	ND	ND	ND	125	949	2120	NA	NA	NA	NA	NA	NA	NA
10/5/2021	ND	ND	ND	ND	ND	ND	ND	121	992	2110	NA	NA	NA	NA	NA	NA	NA
10/21/2021	ND	ND	ND	ND	ND	ND	ND	137	1020	2150	NA	NA	NA	NA	NA	NA	NA
MW7																	
9/7/2021	ND	ND	ND	ND	ND J3	ND	ND	129	1010	3280	NA	NA	NA	NA	NA	NA	NA
9/20/2021	0.148 J	0.767 J	0.452 J	0.452 J	ND	ND	ND	131	943	2300	NA	NA	NA	NA	NA	NA	NA
10/5/2021	ND	ND	0.157 J	ND	ND	ND	ND	118	1050	2220	NA	NA	NA	NA	NA	NA	NA
10/21/2021	ND	0.357 J	0.243 J	ND	ND	ND	ND	131	1010	2160	NA	NA	NA	NA	NA	NA	NA
MW8																	
9/7/2021	ND	ND	ND	ND	ND J3	ND	ND	148	1010	2180	NA	NA	NA	NA	NA	NA	NA
9/20/2021	ND	ND	ND	ND	ND	ND	ND	128	1050	2280	NA	NA	NA	NA	NA	NA	NA
10/5/2021	ND	ND	ND	ND	ND	ND	ND	131	1020	2350	NA	NA	NA	NA	NA	NA	NA
10/21/2021	ND	ND	ND	ND	ND	ND	ND	135	1080	2330	NA	NA	NA	NA	NA	NA	NA
MW9																	
10/5/2021	396 E	37.7	3.65	172	ND	7.95 J	8.92 J	74.7	686	1590	NA	NA	NA	NA	NA	NA	NA
10/21/2021	838	2.35	16.6	137	ND	4.45	6.08	84.6	705	1650	NA	NA	NA	NA	NA	NA	NA
MW10																	
10/5/2021	0.271 J	ND	ND	0.187 J	ND	ND	ND	73.9	788	1850	NA	NA	NA	NA	NA	NA	NA
10/21/2021	0.384 J	0.315 J	0.207 J	0.245 J	ND	ND	ND	80.1	692	1570	NA	NA	NA	NA	NA	NA	NA

µg/L - micrograms per liter

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

J - indicates an estimated value

mmhos/cm - millimhos per centimeter

mv - millivolts

su - standard units

NA - not applicable

NT - parameter was not tested

ND - not detected above method detection limit

\*All samples are held to first concentration level unless release occurred prior to 10/14/2004 or site specific standards exist.

Over COGCC Table 915-1 concentration levels but under BACKGROUND level.

Over COGCC Table 915-1 concentration levels and not within BACKGROUND level.

Over COGCC Table 915-1 concentration levels

Max BG Chloride =  $83.4 * 1.25 = 104.25$

Max BG Sulfate =  $837 * 1.25 = 1046.25$

Max BG TDS =  $1810 * 1.25 = 2262.50$

# BORING LOGS

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Laramie Energy  
1401 17th Street  
Denver, CO 80202

Baker Canyon Spill

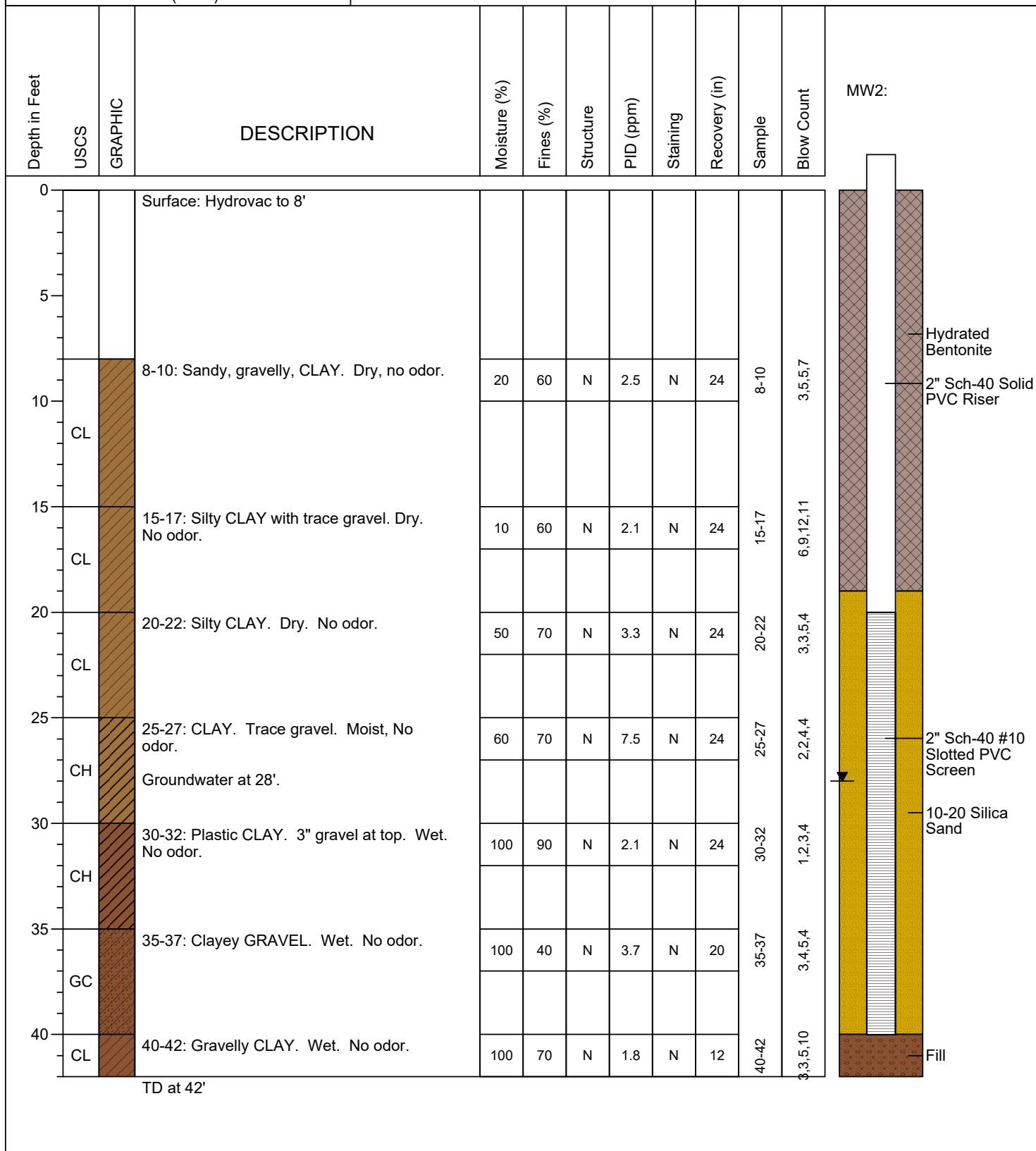
SB1 (MW1)

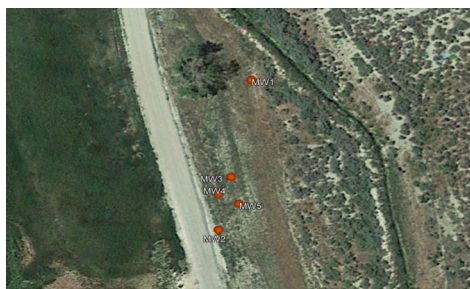
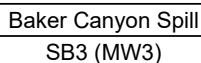


Date Started : 04/29/21  
Detector : MiniRae PID  
Hole Diameter : 6"  
Drilling Method : Solid Stem Auger  
Sampling Method : Split Spoon  
Drilling Company : DA Smith  
Latitude : 39.464976  
Longitude : -108.243553  
Project Number : 021-054  
Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW1:
0			Surface: Hydrovac to 8'									
5												
10	CL		8.5-10.5: Silty CLAY with trace siltstone gravel.	10	70	N	0.2	N	6	8.5-10.5	6,6,7,7	
15	CL		13.5-15.5: Silty CLAY with trace siltstone gravel.	10	70	N	0.5	N	8		8,9,9,10	
20	CL		18.5-20.5: Silty CLAY with gravel.	20	70	N	1.0	N	16		5,7,10,12	
25	CL		23.5-25.5: Silty and sandy CLAY with gravel.	20	60	N	3.5	N	24	23.5-25.5	4,6,9,10	
30	CL		28.5-30.5: Silty CLAY	40	80	N	1.3	N	24		4,6,6,10	
35	CL		33.5-35.5: CLAY with trace gravel, no odor.	50	90	N	1.3	N	24		3,4,7,7	
40	CL		38.5-40.5: CLAY with trace gravel. Wet. No odor. Groundwater at 40'.	90	80	N	1.3	N	24		3,4,3,4	
45	CL		43.5-45.5: CLAY, Mottled, 6" dry section, no odor.	90	80	N	0.8	N	24		3,4,7,7	
50	CL		48.5-50.5: CLAY with trace gravel, wet, no odor.	90	80	N	0.4	N	18	48.5-50.5	2,3,4,5	
TD at 53' @ 1045												







Date Started	: 04/29/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Hollow Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: DA Smith
Latitude	: 39.464750
Longitude	: -108.243610
Project Number	: 021-054
Logged By	: R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW3:
0			Surface: Hydrovac to 8'									
8-10	CL		8-10: Hard silty CLAY. Dry, slight odor.	10	90	N	382	N	12	8-10	8,12,12,11	Hydrated Bentonite 2" Sch-40 Solid PVC Riser
15-17	CL		15-17: Silty CLAY with trace gravel. Slight odor.	20	70	N	595	N	18	15-17	5,8,12,15	
20-22	CL		20-22: Sandy CLAY with gravel. No odor.	20	70	N	131	N	24	20-22	3,7,9,10	
25-27	CH		25-27: Plastic silty CLAY. No odor.	50	90	N	476	N	24	25-27	3,4,5,6	
30-32	CH		30-32: Plastic CLAY. No odor. Groundwater at 31'.	100	90	N	4.3	N	24	30-32	2,3,3,4	2" Sch-40 #10 Slotted PVC Screen 10-20 Silica Sand
35-37	CL		35-37: Gravelly CLAY. Wet. No odor.	100	60	N	2.0	N	24	35-37	2,3,4,4	
40-42	CL		40-42: CLAY into weathered shale. Wet. No odor.	100	90	N	1.8	N	24	40-42	2,4,5,5	

TD at 42'

Baker Canyon Spill  
SB4 (MW4)

Date Started	: 04/30/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Hollow Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: DA Smith
Latitude	: 39.464682
Longitude	: -108.243651
Project Number	: 021-054
Logged By	: R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count
0			Surface: Hydrovac to 8'								
8-10	CL	[Brown diagonal hatch]	8-10: Hard silty CLAY. Dry, slight odor.	10	80	N	52.6	N	18	8-10	4,7,8,10
15-17	CL	[Light brown diagonal hatch]	15-17: Silty and sandy CLAY with trace gravel. Dry. No odor.	20	60	N	56.7	N	24	15-17	4,7,7,8
20-22	CL	[Dark brown diagonal hatch]	20-22: CLAY with gravel. Slightly moist. No odor.	40	80	N	29.4	N	24	20-22	3,4,6,7
25-27	CL	[Dark brown diagonal hatch]	25-27: CLAY with trace gravel into 3" clayey gravel into clay. Moist to wet. No odor.	70	70	N	59.8	N	24	25-27	1,2,3,3
29'			Groundwater at 29'								
30-32	CH	[Dark red diagonal hatch]	30-32: Clayey sand into red plastic CLAY. Wet.	100	60	N	2.2	N	24	30-32	1,1,2,3
35-37	CH	[Brown diagonal hatch]	35-37: Clayey sand into gravelly clay into plastic CLAY. Wet.	100	50	N	4.2	N	24	35-37	1,2,3,3
40-42	GC	[Brown diagonal hatch]	40-42: Clayey GRAVEL into stiff clay. Wet.	100	50	N	1.8	N	24	40-42	1,2,3,3
TD at 42'			TD at 42'								

MW4:

- Hydrated Bentonite
- 2" Sch-40 Solid PVC Riser
- 2" Sch-40 #10 Slotted PVC Screen
- 10-20 Silica Sand
- Fill

Baker Canyon Spill  
SB5 (MW5)

Date Started	: 04/30/21
Detector	: MiniRae PID
Hole Diameter	: 6"
Drilling Method	: Hollow Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: DA Smith
Latitude	: 39.464671
Longitude	: -108.243593
Project Number	: 021-054
Logged By	: R. Johnson

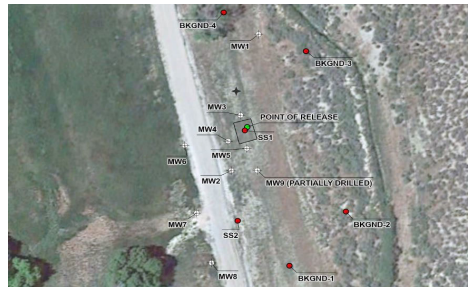
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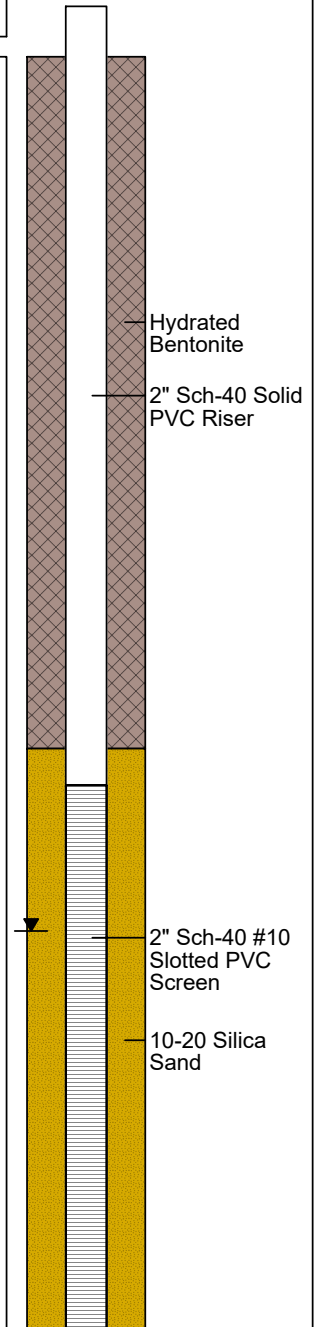
Baker Canyon Spill

MW6



Date Started : 09/02/21  
 Detector : MiniRae PID  
 Hole Diameter : 8.25"  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Split Spoon  
 Drilling Company : DA Smith  
 Latitude : 39.464673°  
 Longitude : -108.243786°  
 Project Number : 021-054  
 Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW6:
0												
5	CL		5-7: Rooted, sandy and gravelly clay. Trace mottling. Dry. No odor.	20	70	M	1.5	N	12	5-7	9,11,11,9	
10			10-12: 4" dry gravelly clay into 10" clayey gravel into very moist gravelly clay.	40	50	Unc	3.7	N	18	10-12	10,11,6,4	
15	CL		15-17: Moist gravelly clay. No odor.	60	70	M	3.3	N	24	15-17	2,3,5,8	
20	CL		20-22: Brown/grey mottled sandy and gravelly clay. Moist. No odor.	60	70	M	3.8	N	24	20-22	3,5,14,7	
25	CL		25-27: Brown/grey mottled gravelly clay. Wet. No odor.	80	80	M	2.2	N	24	25-27	2,5,5,6	
30	CL		30-32: Brown/grey mottled gravelly clay. Wet. No odor.	90	80	M	3.3	N	24	30-32	2,4,5,7	
35			TD at 35'									



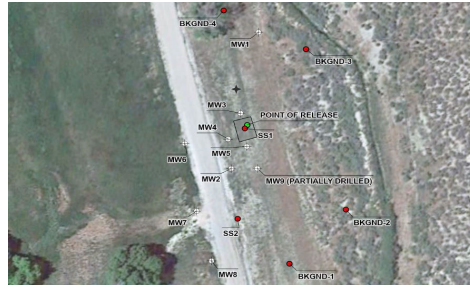




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Denver, CO 80202

Baker Canyon Spill

MW7



Date Started : 09/02/21  
Detector : MiniRae PID  
Hole Diameter : 8.25"  
Drilling Method : Hollow Stem Auger  
Sampling Method : Split Spoon  
Drilling Company : DA Smith  
Latitude : 39.464494°  
Longitude : -108.243740°  
Project Number : 021-054  
Logged By : R. Johnson

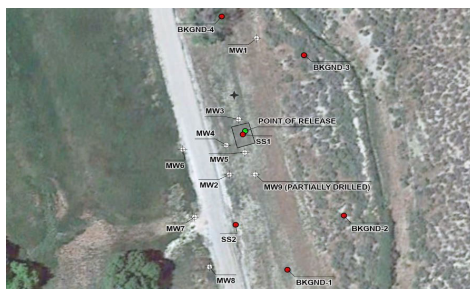
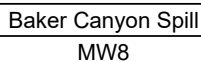
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW7:
0												
5	CL		5-7: Rooted, sandy and gravelly clay. Trace mottling. Dry. No odor.	60	90	M	5.8	N	18	5-7	2,4,6	
10			10-12: 4" dry gravelly clay into 10" clayey gravel into very moist gravelly clay.	40	70	S	9.1	N	20	10-12	4,3,5,6	
15	CL		15-17: Moist gravelly clay. No odor.	70	70	S	2.7	N	22	15-17	2,3,5,4	
20	CL		20-22: Brown/grey mottled sandy and gravelly clay. Moist. No odor.	80	80	S	5.3	N	24	20-22	4,5,6,8	
25	CL		25-27: Brown/grey mottled gravelly clay. Wet. No odor.	100	80	S	6.1	N	24	25-27	0,0,3,3	
30	CL		30-32: Brown/grey mottled gravelly clay. Wet. No odor.	100	70	M	2.9	N	24	30-32	2,2,5,5	
TD at 34'												

Hydrated Bentonite

2" Sch-40 Solid PVC Riser

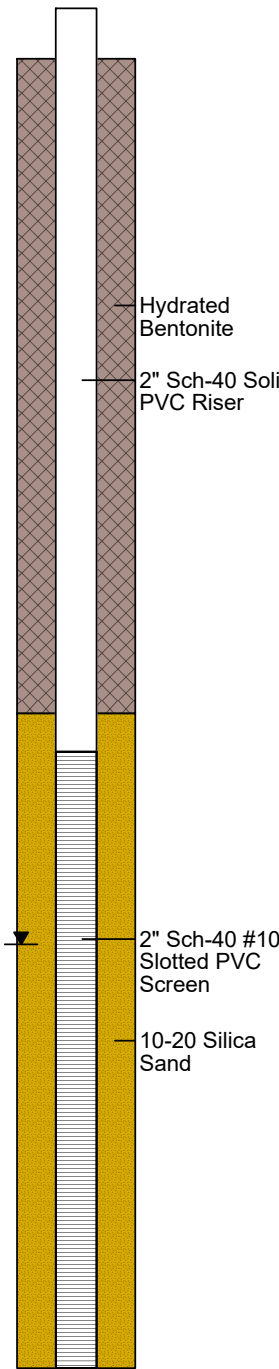
2" Sch-40 #10 Slotted PVC Screen

10-20 Silica Sand



Date Started : 09/03/21  
 Detector : MiniRae PID  
 Hole Diameter : 8.25"  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Split Spoon  
 Drilling Company : DA Smith  
 Latitude : 39.464353°  
 Longitude : -108.243693°  
 Project Number : 021-054  
 Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW8:
0												
5	CL		5-7: Stiff gravelly clay into soft moist silty clay with trace gravel. Organics. Rooted. No odor.	60	80	P	1.4	N	20	5-7	5,5,4,6	
10	CL		10-12: Stiff gravelly clay. Moist. No odor.	60	80	P	2.4	N	24	10-12	2,3,5,5	
15	SC		15-17: Stiff platy clay into 12" gravelly and clayey sand into 3" gravelly clay into 3" clayey sand. No odor. Very Moist.	70	30	S	4.1	N	24	15-17	2,1,3,2	
20	CL		20-22: 4" brown stiff wet clay with trace silt/sand into 16" grey gravelly mottled clay. Moist. No odor.	70	80	M/S	4.0	N	24	20-22	4,6,9,12	
25	CL		25-27: Grey/Brown mottled gravelly clay. Wet. No odor.	100	80	M	3.6	N	24	25-27	2,2,2,4	
30	CL		30-32: Brown/grey mottled gravelly clay. Wet. No odor.	100	70	M	5.2	N	24	30-32	2,3,4,5	
34			TD at 34'									



MW8:

Hydrated Bentonite

2" Sch-40 Solid PVC Riser

2" Sch-40 #10 Slotted PVC Screen

10-20 Silica Sand



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Denver, CO 80202

Baker Canyon Spill

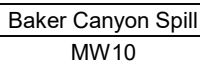
MW9









Date Started : 09/03/21 & 9/27/21  
 Detector : MiniRae PID  
 Hole Diameter : 8.25" & 6"  
 Drilling Method : HS & SS Augers  
 Sampling Method : Split Spoon  
 Drilling Company : DA Smith & CO Drill/Samp  
 Latitude : 39.464588°  
 Longitude : -108.243554°  
 Project Number : 021-054  
 Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW9:
0			Hyrdovac to 10'.									
10	CL		10-12: Stiff gravelly and sandy clay. Dry No odor.	20	80	P	24.3	N	18	10-12	4,8,10,10	Hydrated Bentonite 2" Sch-40 Solid PVC Riser
15	CL		15-17: Gravelly clay. Very slightly moist.	30	70	M	4.0	N	20	15-17	4,8,9,12	
18	CL		18': Original TD									
20	CL		20-22: Brown very slight moist organic sandy clay. Stiff.	60	80	M	1.3	N	16	20-22	2,4,8,12	2" Sch-40 #10 Slotted PVC Screen
25	CL		25-27: 8" wet clayey gravel into 16" brown sandy and gravelly clay.	100	70	S	7.3	N	24	25-27	5,6,7,9	10-20 Silica Sand
30	CL		30-32: Wet gravelly and sandy clay.	100	70	M	2.9	N	24	30-32	3,4,5,6	
32			32-34: Wet sandy clay into 18" loose wet clayey gravel.	100	40	M	4.4	N	24	32-34	5,6,7,9	

Original TD at 18' on 9/3/21. Hole was deepened and completed on 9/27/21. Final TD at 34'.



Date Started : 9/27/21  
 Detector : MiniRae PID  
 Hole Diameter : 6"  
 Drilling Method : Solid Stem Auger  
 Sampling Method : Split Spoon  
 Drilling Company : CO Drill and Samp  
 Latitude : 39.4648212  
 Longitude : -108.2436258  
 Project Number : 021-054  
 Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Sample	Blow Count	MW10:
0			Hyrdovac to 10'.									
10	CL		10-12: Hard gravelly clay. Dry with shale pieces.	20	70	P	12.6	N	24	10-12	6,10,12,11	Hydrated Bentonite 2" Sch-40 Solid PVC Riser
15	CL		15-17: Stiff silty and gravelly clay. Dry. No odor.	20	70	P	2.2	N	24	15-17	7,9,9,13	
20	CL		20-22: Stiff silty and gravelly clay. Pinpoint charcoal pieces. Moist.	40	70	M	2.3	N	24	20-22	8,13,16,19	
25	CL		25-27: Still moist gravelly clay. Shale pieces. No odor.	60	80	P	3.8	N	24	25-27	6,8,10,14	2" Sch-40 #10 Slotted PVC Screen
30	CL		30-32: Wet gravelly clay. No odor.	100	70	M	3.6	N	24	30-32	4,5,6,7	10-20 Silica Sand
35			35-37: Wet clayey gravel. No odor.	100	70	M	0.9	N	24	35-37	2,5,6,7	
TD at 37'.												

# SOIL ANALYTICAL REPORTS


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**Entrada Consulting Group**

Sample Delivery Group: L1335397  
Samples Received: 04/07/2021  
Project Number: 021-054  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

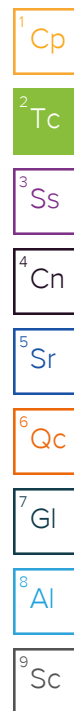
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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# SAMPLE SUMMARY

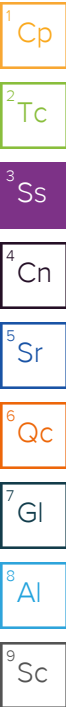
## SS1 L1335397-01 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 13:05

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 21:52	04/13/21 21:52	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1647744	1	04/08/21 15:05	04/09/21 20:36	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1649644	1	04/11/21 23:10	04/12/21 08:07	KAB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1646915	1	04/09/21 07:16	04/10/21 12:21	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:28	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1646916	5	04/09/21 07:14	04/09/21 15:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1652211	10000	04/08/21 11:01	04/15/21 15:52	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1648435	80	04/08/21 11:01	04/09/21 20:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1652770	2000	04/08/21 11:01	04/16/21 09:42	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1651120	1	04/14/21 07:10	04/15/21 02:48	DMG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1651120	10	04/14/21 07:10	04/15/21 05:38	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1650057	1	04/13/21 02:41	04/13/21 15:43	LEA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1650057	10	04/13/21 02:41	04/14/21 06:59	AAT	Mt. Juliet, TN



## SS2 L1335397-02 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 13:15

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 21:55	04/13/21 21:55	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1647744	1	04/08/21 15:05	04/09/21 20:41	DGR	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1649644	1	04/11/21 23:10	04/12/21 08:07	KAB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1646915	1	04/09/21 07:16	04/10/21 12:30	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:31	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1646916	5	04/09/21 07:14	04/09/21 16:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1651427	1	04/08/21 11:01	04/15/21 06:17	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1648435	1	04/08/21 11:01	04/09/21 15:59	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1649035	1	04/10/21 11:22	04/12/21 08:45	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1650057	1	04/13/21 02:41	04/13/21 16:03	LEA	Mt. Juliet, TN

## BKGND-1 L1335397-03 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 13:35

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 21:58	04/13/21 21:58	KMG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1650251	1	04/12/21 23:04	04/13/21 02:47	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:34	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1648403	5	04/09/21 07:24	04/09/21 18:08	JPD	Mt. Juliet, TN

## BKGND-2 L1335397-04 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 13:45

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 22:01	04/13/21 22:01	KMG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1650251	1	04/12/21 23:04	04/13/21 02:47	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:37	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1648403	5	04/09/21 07:24	04/09/21 18:12	JPD	Mt. Juliet, TN

# SAMPLE SUMMARY

## BKGND-3 L1335397-05 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 13:50

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 22:04	04/13/21 22:04	KMG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1650251	1	04/12/21 23:04	04/13/21 02:47	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:40	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1648403	5	04/09/21 07:24	04/09/21 18:15	JPD	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

## BKGND-4 L1335397-06 Solid

Collected by  
R. Johnson

Collected date/time  
04/05/21 14:00

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1647625	1	04/13/21 22:07	04/13/21 22:07	KMG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1650251	1	04/12/21 23:04	04/13/21 02:47	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1650292	1	04/13/21 05:32	04/13/21 08:31	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1647624	1	04/12/21 07:01	04/14/21 13:43	JDG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1648403	5	04/09/21 07:24	04/09/21 18:19	JPD	Mt. Juliet, TN

<sup>5</sup> Sr

<sup>6</sup> Qc

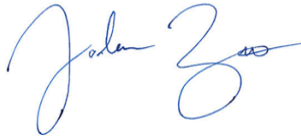
<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.4		1	04/13/2021 21:52	WG1647625

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	04/09/2021 20:36	<a href="#">WG1647744</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.77	<a href="#">T8</a>	1	04/12/2021 08:07	<a href="#">WG1649644</a>

## Sample Narrative:

L1335397-01 WG1649644: 7.77 at 20.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2120		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	163		0.500	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Cadmium	ND		0.500	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Copper	17.6		2.00	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Lead	9.18		0.500	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Nickel	15.8		2.00	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Selenium	ND		2.00	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Silver	ND		1.00	1	04/10/2021 12:21	<a href="#">WG1646915</a>
Zinc	52.1		5.00	1	04/10/2021 12:21	<a href="#">WG1646915</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

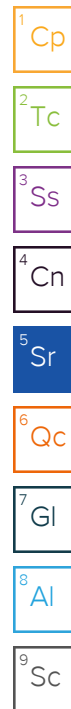
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.683		0.200	1	04/14/2021 13:28	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.21		1.00	5	04/09/2021 15:58	<a href="#">WG1646916</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	10900		1000	10000	04/15/2021 15:52	<a href="#">WG1652211</a>
(S) a,a,a-Trifluorotoluene(FID)	83.8		77.0-120		04/15/2021 15:52	<a href="#">WG1652211</a>



## SS1

## SAMPLE RESULTS - 01

Collected date/time: 04/05/21 13:05

L1335397

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	83.8	<u>V</u>	0.0800	80	04/09/2021 20:07	<a href="#">WG1648435</a>
Toluene	1030		10.0	2000	04/16/2021 09:42	<a href="#">WG1652770</a>
Ethylbenzene	117	<u>V</u>	0.200	80	04/09/2021 20:07	<a href="#">WG1648435</a>
Xylenes, Total	1810		13.0	2000	04/16/2021 09:42	<a href="#">WG1652770</a>
Naphthalene	8.28		1.00	80	04/09/2021 20:07	<a href="#">WG1648435</a>
1,2,4-Trimethylbenzene	187		10.0	2000	04/16/2021 09:42	<a href="#">WG1652770</a>
1,3,5-Trimethylbenzene	171	<u>V</u>	0.400	80	04/09/2021 20:07	<a href="#">WG1648435</a>
(S) Toluene-d8	87.8		75.0-131		04/09/2021 20:07	<a href="#">WG1648435</a>
(S) Toluene-d8	112		75.0-131		04/16/2021 09:42	<a href="#">WG1652770</a>
(S) 4-Bromofluorobenzene	92.8		67.0-138		04/09/2021 20:07	<a href="#">WG1648435</a>
(S) 4-Bromofluorobenzene	104		67.0-138		04/16/2021 09:42	<a href="#">WG1652770</a>
(S) 1,2-Dichloroethane-d4	110		70.0-130		04/09/2021 20:07	<a href="#">WG1648435</a>
(S) 1,2-Dichloroethane-d4	105		70.0-130		04/16/2021 09:42	<a href="#">WG1652770</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1480		40.0	10	04/15/2021 05:38	<a href="#">WG1651120</a>
C28-C36 Motor Oil Range	48.0		4.00	1	04/15/2021 02:48	<a href="#">WG1651120</a>
(S) o-Terphenyl	67.9		18.0-148		04/15/2021 05:38	<a href="#">WG1651120</a>
(S) o-Terphenyl	73.7		18.0-148		04/15/2021 02:48	<a href="#">WG1651120</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Acenaphthene	0.103		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Acenaphthylene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Benzo(a)anthracene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Benzo(a)pyrene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Benzo(b)fluoranthene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Benzo(g,h,i)perylene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Benzo(k)fluoranthene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Chrysene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Dibenz(a,h)anthracene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Fluoranthene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Fluorene	0.310		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Naphthalene	7.94		0.200	10	04/14/2021 06:59	<a href="#">WG1650057</a>
Phenanthrene	0.163		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
Pyrene	ND		0.00600	1	04/13/2021 15:43	<a href="#">WG1650057</a>
1-Methylnaphthalene	4.74		0.200	10	04/14/2021 06:59	<a href="#">WG1650057</a>
2-Methylnaphthalene	13.2		0.200	10	04/14/2021 06:59	<a href="#">WG1650057</a>
2-Chloronaphthalene	ND		0.0200	1	04/13/2021 15:43	<a href="#">WG1650057</a>
(S) p-Terphenyl-d14	91.7		23.0-120		04/13/2021 15:43	<a href="#">WG1650057</a>
(S) p-Terphenyl-d14	109		23.0-120		04/14/2021 06:59	<a href="#">WG1650057</a>
(S) Nitrobenzene-d5	0.000	<u>J2</u>	14.0-149		04/14/2021 06:59	<a href="#">WG1650057</a>
(S) Nitrobenzene-d5	481	<u>J1</u>	14.0-149		04/13/2021 15:43	<a href="#">WG1650057</a>
(S) 2-Fluorobiphenyl	86.3		34.0-125		04/13/2021 15:43	<a href="#">WG1650057</a>
(S) 2-Fluorobiphenyl	110		34.0-125		04/14/2021 06:59	<a href="#">WG1650057</a>

## Sample Narrative:

L1335397-01 WG1650057: Surrogate failure due to matrix interference



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.35		1	04/13/2021 21:55	WG1647625

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	04/09/2021 20:41	<a href="#">WG1647744</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.01	<a href="#">T8</a>	1	04/12/2021 08:07	<a href="#">WG1649644</a>

## Sample Narrative:

L1335397-02 WG1649644: 8.01 at 20C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1550		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	202		0.500	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Cadmium	ND		0.500	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Copper	15.5		2.00	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Lead	8.15		0.500	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Nickel	14.8		2.00	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Selenium	ND		2.00	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Silver	ND		1.00	1	04/10/2021 12:30	<a href="#">WG1646915</a>
Zinc	49.2		5.00	1	04/10/2021 12:30	<a href="#">WG1646915</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

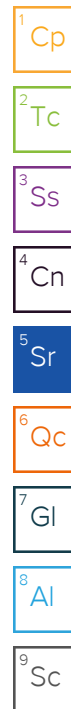
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.885		0.200	1	04/14/2021 13:31	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.71		1.00	5	04/09/2021 16:11	<a href="#">WG1646916</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.37		0.100	1	04/15/2021 06:17	<a href="#">WG1651427</a>
(S) a,a,a-Trifluorotoluene(FID)	96.6		77.0-120		04/15/2021 06:17	<a href="#">WG1651427</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0463		0.00100	1	04/09/2021 15:59	<a href="#">WG1648435</a>
Toluene	0.362		0.00500	1	04/09/2021 15:59	<a href="#">WG1648435</a>
Ethylbenzene	0.0173		0.00250	1	04/09/2021 15:59	<a href="#">WG1648435</a>
Xylenes, Total	0.310		0.00650	1	04/09/2021 15:59	<a href="#">WG1648435</a>
Naphthalene	ND		0.0125	1	04/09/2021 15:59	<a href="#">WG1648435</a>
1,2,4-Trimethylbenzene	0.0234		0.00500	1	04/09/2021 15:59	<a href="#">WG1648435</a>
1,3,5-Trimethylbenzene	0.0201		0.00500	1	04/09/2021 15:59	<a href="#">WG1648435</a>
(S) Toluene-d8	109		75.0-131		04/09/2021 15:59	<a href="#">WG1648435</a>
(S) 4-Bromofluorobenzene	98.6		67.0-138		04/09/2021 15:59	<a href="#">WG1648435</a>
(S) 1,2-Dichloroethane-d4	103		70.0-130		04/09/2021 15:59	<a href="#">WG1648435</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.23		4.00	1	04/12/2021 08:45	<a href="#">WG1649035</a>
C28-C36 Motor Oil Range	12.4		4.00	1	04/12/2021 08:45	<a href="#">WG1649035</a>
(S) o-Terphenyl	50.6		18.0-148		04/12/2021 08:45	<a href="#">WG1649035</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Acenaphthene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Acenaphthylene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Benzo(a)anthracene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Benzo(a)pyrene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Benzo(b)fluoranthene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Benzo(g,h,i)perylene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Benzo(k)fluoranthene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Chrysene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Dibenz(a,h)anthracene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Fluoranthene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Fluorene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Naphthalene	ND		0.0200	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Phenanthrene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
Pyrene	ND		0.00600	1	04/13/2021 16:03	<a href="#">WG1650057</a>
1-Methylnaphthalene	ND		0.0200	1	04/13/2021 16:03	<a href="#">WG1650057</a>
2-Methylnaphthalene	ND		0.0200	1	04/13/2021 16:03	<a href="#">WG1650057</a>
2-Chloronaphthalene	ND		0.0200	1	04/13/2021 16:03	<a href="#">WG1650057</a>
(S) p-Terphenyl-d14	81.2		23.0-120		04/13/2021 16:03	<a href="#">WG1650057</a>
(S) Nitrobenzene-d5	60.8		14.0-149		04/13/2021 16:03	<a href="#">WG1650057</a>
(S) 2-Fluorobiphenyl	59.1		34.0-125		04/13/2021 16:03	<a href="#">WG1650057</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.87		1	04/13/2021 21:58	WG1647625

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	<a href="#">T8</a>	1	04/13/2021 02:47	<a href="#">WG1650251</a>

## Sample Narrative:

L1335397-03 WG1650251: 8.35 at 23.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	2140		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.911		0.200	1	04/14/2021 13:34	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	10.1		1.00	5	04/09/2021 18:08	<a href="#">WG1648403</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.55		1	04/13/2021 22:01	WG1647625

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.50	<a href="#">T8</a>	1	04/13/2021 02:47	<a href="#">WG1650251</a>

## Sample Narrative:

L1335397-04 WG1650251: 8.5 at 22.9C

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
	439		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	mg/kg		mg/kg			
	0.868		0.200	1	04/14/2021 13:37	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	mg/kg		mg/kg			
	7.60		1.00	5	04/09/2021 18:12	<a href="#">WG1648403</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.666		1	04/13/2021 22:04	WG1647625

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.17	<u>T8</u>	1	04/13/2021 02:47	<a href="#">WG1650251</a>

## Sample Narrative:

L1335397-05 WG1650251: 8.17 at 23.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
Specific Conductance	729		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	mg/kg		mg/kg			
Hot Water Sol. Boron	0.453		0.200	1	04/14/2021 13:40	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	mg/kg		mg/kg			
Arsenic	8.35		1.00	5	04/09/2021 18:15	<a href="#">WG1648403</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.34		1	04/13/2021 22:07	WG1647625

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.60	<a href="#">T8</a>	1	04/13/2021 02:47	<a href="#">WG1650251</a>

## Sample Narrative:

L1335397-06 WG1650251: 8.6 at 23C

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
Specific Conductance	314		10.0	1	04/13/2021 08:31	<a href="#">WG1650292</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	mg/kg		mg/kg			
Hot Water Sol. Boron	0.433		0.200	1	04/14/2021 13:43	<a href="#">WG1647624</a>

## Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	mg/kg		mg/kg			
Arsenic	8.98		1.00	5	04/09/2021 18:19	<a href="#">WG1648403</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Method Blank (MB)

(MB) R3640823-1 04/09/21 18:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1335137-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1335137-03 04/09/21 19:13 • (DUP) R3640823-3 04/09/21 19:18

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

L1335269-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1335269-02 04/09/21 20:26 • (DUP) R3640823-8 04/09/21 20:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3640823-2 04/09/21 18:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.3	103	80.0-120	

L1335269-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335269-01 04/09/21 19:29 • (MS) R3640823-4 04/09/21 19:34 • (MSD) R3640823-5 04/09/21 19:39

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	6.57	26.3	26.0	98.7	97.2	1	75.0-125			1.15	20

L1335269-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1335269-01 04/09/21 19:29 • (MS) R3640823-6 04/09/21 19:55

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	643	6.57	681	106	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1335699-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1335699-01 04/12/21 08:07 • (DUP) R3640679-3 04/12/21 08:07

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.51	8.45	1	0.708		1

Sample Narrative:

OS: 8.51 at 20.2C

DUP: 8.45 at 20.1C

Laboratory Control Sample (LCS)

(LCS) R3640679-1 04/12/21 08:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.06 at 19.4C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1335397-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1335397-03 04/13/21 02:47 • (DUP) R3641004-2 04/13/21 02:47

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.35	8.35	1	0.000		1

Sample Narrative:

OS: 8.35 at 23.5C

DUP: 8.35 at 22.6C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1335507-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1335507-02 04/13/21 02:47 • (DUP) R3641004-3 04/13/21 02:47

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.25	8.26	1	0.121		1

Sample Narrative:

OS: 8.25 at 23C

DUP: 8.26 at 22.8C

Laboratory Control Sample (LCS)

(LCS) R3641004-1 04/13/21 02:47

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 20.5C

Method Blank (MB)

(MB) R3641059-1 04/13/21 08:31

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1335378-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1335378-01 04/13/21 08:31 • (DUP) R3641059-3 04/13/21 08:31

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	10800	9580	1	12.2		20

L1336011-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1336011-04 04/13/21 08:31 • (DUP) R3641059-4 04/13/21 08:31

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	214	210	1	2.08		20

Laboratory Control Sample (LCS)

(LCS) R3641059-2 04/13/21 08:31

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	741	743	100	85.0-115	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3640460-1 04/10/21 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Laboratory Control Sample (LCS)

(LCS) R3640460-2 04/10/21 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	102	102	80.0-120	
Cadmium	100	96.8	96.8	80.0-120	
Copper	100	98.3	98.3	80.0-120	
Lead	100	97.1	97.1	80.0-120	
Nickel	100	98.6	98.6	80.0-120	
Selenium	100	95.6	95.6	80.0-120	
Silver	20.0	18.8	93.9	80.0-120	
Zinc	100	97.3	97.3	80.0-120	

L1333976-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1333976-01 04/10/21 12:01 • (MS) R3640460-5 04/10/21 12:09 • (MSD) R3640460-6 04/10/21 12:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	164	239	204	75.3	40.6	1	75.0-125		J6	15.7	20
Cadmium	100	ND	95.5	89.9	95.3	89.7	1	75.0-125			6.06	20
Copper	100	14.2	111	105	96.8	90.6	1	75.0-125			5.75	20
Lead	100	11.8	116	108	104	96.4	1	75.0-125			6.90	20
Nickel	100	18.9	116	108	96.6	88.6	1	75.0-125			7.17	20
Selenium	100	ND	93.5	88.8	92.5	87.9	1	75.0-125			5.12	20
Silver	20.0	ND	18.7	17.7	93.5	88.4	1	75.0-125			5.68	20
Zinc	100	53.6	140	133	86.3	79.6	1	75.0-125			4.87	20

Method Blank (MB)

(MB) R3641830-1 04/14/21 13:16

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3641830-2 04/14/21 13:19 • (LCSD) R3641830-3 04/14/21 13:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.08	1.19	108	119	80.0-120			9.51	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3640236-1 04/09/21 15:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

Laboratory Control Sample (LCS)

(LCS) R3640236-2 04/09/21 15:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	90.3	90.3	80.0-120	

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1333976-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1333976-01 04/09/21 15:35 • (MS) R3640236-5 04/09/21 15:45 • (MSD) R3640236-6 04/09/21 15:48

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	4.79	93.3	88.4	88.5	83.6	5	75.0-125			5.49	20

Method Blank (MB)

(MB) R3640209-1 04/09/21 17:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3640209-2 04/09/21 17:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	105	105	80.0-120	

L1336062-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1336062-35 04/09/21 17:22 • (MS) R3640209-5 04/09/21 17:33 • (MSD) R3640209-6 04/09/21 17:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	20.0	17.8	101	114	83.6	96.1	5	75.0-125			11.6	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3642133-3 04/14/21 22:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3642133-2 04/14/21 21:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.62	84.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			92.5	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3642366-1 04/15/21 11:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3642366-2 04/15/21 11:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.95	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3640041-3 04/09/21 12:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	95.2			67.0-138
(S) 1,2-Dichloroethane-d4	99.3			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3640041-1 04/09/21 10:45 • (LCSD) R3640041-2 04/09/21 11:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.118	0.120	94.4	96.0	70.0-123			1.68	20
Ethylbenzene	0.125	0.120	0.127	96.0	102	74.0-126			5.67	20
Naphthalene	0.125	0.114	0.109	91.2	87.2	59.0-130			4.48	20
Toluene	0.125	0.118	0.124	94.4	99.2	75.0-121			4.96	20
1,2,4-Trimethylbenzene	0.125	0.116	0.117	92.8	93.6	70.0-126			0.858	20
1,3,5-Trimethylbenzene	0.125	0.106	0.116	84.8	92.8	73.0-127			9.01	20
Xylenes, Total	0.375	0.347	0.365	92.5	97.3	72.0-127			5.06	20
(S) Toluene-d8				102	106	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				116	113	70.0-130				

L1335397-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335397-01 04/09/21 20:07 • (MS) R3640041-4 04/09/21 20:26 • (MSD) R3640041-5 04/09/21 20:45

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	10.0	83.8	77.7	74.1	0.000	0.000	80	10.0-149	V	V	4.74	37
Ethylbenzene	10.0	117	107	107	0.000	0.000	80	10.0-160	V	V	0.000	38
Naphthalene	10.0	8.28	16.7	17.8	84.2	95.2	80	10.0-160			6.38	36
Toluene	10.0	550	525	500	0.000	0.000	80	10.0-156	E V	E V	4.88	38
1,2,4-Trimethylbenzene	10.0	202	198	190	0.000	0.000	80	10.0-160	V	V	4.12	36
1,3,5-Trimethylbenzene	10.0	171	166	162	0.000	0.000	80	10.0-160	V	V	2.44	38
Xylenes, Total	30.0	1340	1260	1220	0.000	0.000	80	10.0-160	V	V	3.23	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1335397-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335397-01 04/09/21 20:07 • (MS) R3640041-4 04/09/21 20:26 • (MSD) R3640041-5 04/09/21 20:45

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					85.6	83.9		75.0-131				
(S) 4-Bromofluorobenzene					112	107		67.0-138				
(S) 1,2-Dichloroethane-d4					112	109		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3642684-2 04/16/21 08:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	115			75.0-131
(S) 4-Bromofluorobenzene	98.9			67.0-138
(S) 1,2-Dichloroethane-d4	86.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3642684-1 04/16/21 07:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Toluene	0.125	0.124	99.2	75.0-121	
1,2,4-Trimethylbenzene	0.125	0.119	95.2	70.0-126	
Xylenes, Total	0.375	0.372	99.2	72.0-127	
(S) Toluene-d8			107	75.0-131	
(S) 4-Bromofluorobenzene			98.4	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

1  
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Method Blank (MB)

(MB) R3640747-1 04/12/21 06:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.394	J	0.274	4.00
(S) o-Terphenyl	59.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3640747-2 04/12/21 06:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.9	89.8	50.0-150	
(S) o-Terphenyl			73.3	18.0-148	

L1335675-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335675-04 04/12/21 06:34 • (MS) R3640747-3 04/12/21 06:48 • (MSD) R3640747-4 04/12/21 07:01

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.3	ND	31.0	33.9	64.2	68.9	1	50.0-150			8.94	20
(S) o-Terphenyl					53.1	59.9		18.0-148				

L1335686-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335686-03 04/12/21 09:24 • (MS) R3640747-5 04/12/21 09:37 • (MSD) R3640747-6 04/12/21 09:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	ND	44.6	34.8	85.1	65.5	1	50.0-150		J3	24.7	20
(S) o-Terphenyl					58.1	49.2		18.0-148				

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Sc

Method Blank (MB)

(MB) R3642058-1 04/14/21 23:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.750	⬇	0.274	4.00
(S) o-Terphenyl	71.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3642058-2 04/15/21 00:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.4	82.8	50.0-150	
(S) o-Terphenyl			82.3	18.0-148	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3641438-2 04/13/21 10:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	57.4			14.0-149
(S) 2-Fluorobiphenyl	76.0			34.0-125
(S) p-Terphenyl-d14	107			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3641438-1 04/13/21 10:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0645	80.6	50.0-126	
Acenaphthene	0.0800	0.0604	75.5	50.0-120	
Acenaphthylene	0.0800	0.0627	78.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0639	79.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0612	76.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0686	85.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0684	85.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0661	82.6	49.0-125	
Chrysene	0.0800	0.0671	83.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0667	83.4	47.0-125	
Fluoranthene	0.0800	0.0660	82.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3641438-1 04/13/21 10:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0635	79.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0651	81.4	46.0-125	
Naphthalene	0.0800	0.0559	69.9	50.0-120	
Phenanthrene	0.0800	0.0668	83.5	47.0-120	
Pyrene	0.0800	0.0690	86.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0583	72.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0566	70.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0592	74.0	50.0-120	
(S) Nitrobenzene-d5			74.1	14.0-149	
(S) 2-Fluorobiphenyl			80.8	34.0-125	
(S) p-Terphenyl-d14			102	23.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3641438-3 04/13/21 13:45 • (MSD) R3641438-4 04/13/21 14:05

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0776		0.0560	0.0523	72.2	67.4	1	10.0-145			6.83	30
Acenaphthene	0.0776		0.0513	0.0483	66.1	62.2	1	14.0-127			6.02	27
Acenaphthylene	0.0776		0.0480	0.0469	61.9	60.4	1	21.0-124			2.32	25
Benzo(a)anthracene	0.0776		0.0684	0.0575	82.6	68.6	1	10.0-139			17.3	30
Benzo(a)pyrene	0.0776		0.0781	0.0647	91.2	74.0	1	10.0-141			18.8	31
Benzo(b)fluoranthene	0.0776		0.0842	0.0685	95.5	75.3	1	10.0-140			20.6	36
Benzo(g,h,i)perylene	0.0776		0.0792	0.0649	91.4	73.0	1	10.0-140			19.8	33
Benzo(k)fluoranthene	0.0776		0.0719	0.0607	87.9	73.5	1	10.0-137			16.9	31
Chrysene	0.0776		0.0825	0.0652	98.2	75.9	1	10.0-145			23.4	30
Dibenz(a,h)anthracene	0.0776		0.0643	0.0567	82.9	73.1	1	10.0-132			12.6	31
Fluoranthene	0.0776		0.0689	0.0596	82.9	70.9	1	10.0-153			14.5	33
Fluorene	0.0776		0.0538	0.0517	69.3	66.6	1	11.0-130			3.98	29
Indeno(1,2,3-cd)pyrene	0.0776		0.0758	0.0630	87.5	71.0	1	10.0-137			18.4	32
Naphthalene	0.0776		0.0453	0.0453	58.4	58.4	1	10.0-135			0.000	27
Phenanthrene	0.0776		0.0716	0.0606	82.3	68.1	1	10.0-144			16.6	31
Pyrene	0.0776		0.0718	0.0608	85.5	71.3	1	10.0-148			16.6	35
1-Methylnaphthalene	0.0776		0.0494	0.0472	63.7	60.8	1	10.0-142			4.55	28
2-Methylnaphthalene	0.0776		0.0510	0.0485	57.1	53.9	1	10.0-137			5.03	28
2-Chloronaphthalene	0.0776		0.0453	0.0445	58.4	57.3	1	29.0-120			1.78	24
(S) Nitrobenzene-d5					64.3	70.7		14.0-149				
(S) 2-Fluorobiphenyl					72.6	75.8		34.0-125				
(S) p-Terphenyl-d14					93.9	84.8		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

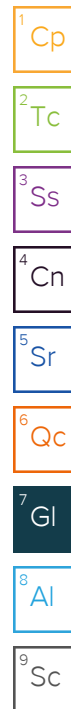
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

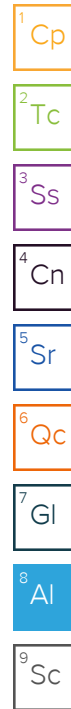
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]

**Pace Analytical National Center for Testing & Innovation**  
**Cooler Receipt Form**

Client: <u>ENTCONGJO</u>		<u>61335357</u>	
Cooler Received/Opened On: <u>1/17</u> / 21		Temperature: <u>1.1</u>	
Received By: <u>Delisha Kirkendoll</u>			
Signature: <u>Delisha Kirkendoll</u>			
Receipt Check List		NP	Yes
COC Seal Present / Intact?		/	
COC Signed / Accurate?			/
Bottles arrive intact?			/
Correct bottles used?			/
Sufficient volume sent?			/
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



May 18, 2021

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Entrada Consulting Group

Sample Delivery Group: L1346831  
Samples Received: 05/01/2021  
Project Number: 021-054  
Description: Baker Canyon

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

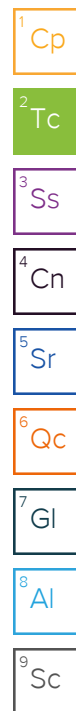
**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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# SAMPLE SUMMARY

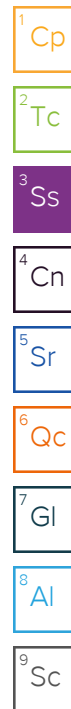
## SB2-SS1 L1346831-01 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 19:50	05/08/21 19:50	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1669705	1	05/13/21 23:42	05/14/21 11:14	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666893	1	05/09/21 02:59	05/10/21 00:42	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:22	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 20:57	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 15:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666528	1	05/04/21 17:04	05/09/21 00:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 17:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/09/21 16:36	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 13:26	AAT	Mt. Juliet, TN



## SB2-SS2 L1346831-02 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:20

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 19:53	05/08/21 19:53	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 20:38	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666893	1	05/09/21 02:59	05/10/21 00:42	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:39	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 20:59	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 17:04	05/08/21 22:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 17:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 18:07	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 13:43	AAT	Mt. Juliet, TN

## SB2-SS3 L1346831-03 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 19:56	05/08/21 19:56	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 18:38	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666893	1	05/09/21 02:59	05/10/21 00:42	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:43	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:02	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 17:04	05/08/21 23:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 17:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 17:41	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 14:01	AAT	Mt. Juliet, TN

## SB2-SS4 L1346831-04 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:40

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 19:58	05/08/21 19:58	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 18:49	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666893	1	05/09/21 02:59	05/10/21 00:42	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:51	KMG	Mt. Juliet, TN

# SAMPLE SUMMARY

## SB2-SS4 L1346831-04 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:40

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:05	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1.01	05/04/21 17:04	05/08/21 23:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 18:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 17:28	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 14:18	AAT	Mt. Juliet, TN



## SB2-SS5 L1346831-05 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 12:55

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:01	05/08/21 20:01	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 18:54	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666893	1	05/09/21 02:59	05/10/21 00:42	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:54	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:08	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 17:04	05/09/21 00:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 18:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 15:56	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 14:36	AAT	Mt. Juliet, TN

## SB2-SS6 L1346831-06 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 13:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:04	05/08/21 20:04	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 18:59	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 03:57	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:11	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:26	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1.01	05/04/21 17:04	05/09/21 00:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 18:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 16:09	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 14:53	AAT	Mt. Juliet, TN

## SB2-SS7 L1346831-07 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 13:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:07	05/08/21 20:07	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:04	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1664795	1	05/05/21 14:52	05/05/21 18:11	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:00	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:13	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 17:04	05/09/21 00:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 17:04	05/05/21 19:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 16:23	CAG	Mt. Juliet, TN

# SAMPLE SUMMARY

SB2-SS7 L1346831-07 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 13:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666659	1	05/08/21 04:57	05/08/21 15:11	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.54		1	05/08/2021 19:50	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/14/2021 11:14	<a href="#">WG1669705</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.42	<a href="#">T8</a>	1	05/10/2021 00:42	<a href="#">WG1666893</a>

## Sample Narrative:

L1346831-01 WG1666893: 8.42 at 23.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	505		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	287	<a href="#">O1</a>	0.500	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Copper	19.3		2.00	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Lead	11.2		0.500	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Nickel	19.1		2.00	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:22	<a href="#">WG1665035</a>
Zinc	57.9	<a href="#">O1</a>	5.00	1	05/08/2021 03:22	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

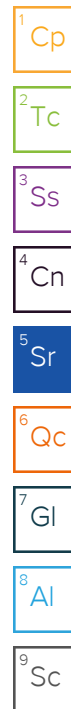
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.275		0.200	1	05/08/2021 20:57	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.0	<a href="#">O1</a>	1.00	5	05/07/2021 15:45	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.412		0.100	1	05/09/2021 00:30	<a href="#">WG1666528</a>
(S) a,a,a-Trifluorotoluene(FID)	91.1		77.0-120		05/09/2021 00:30	<a href="#">WG1666528</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00135		0.00100	1	05/05/2021 17:08	<a href="#">WG1665048</a>
Toluene	0.00507		0.00500	1	05/05/2021 17:08	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 17:08	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 17:08	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 17:08	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:08	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:08	<a href="#">WG1665048</a>
(S) Toluene-d8	101		75.0-131		05/05/2021 17:08	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.8		67.0-138		05/05/2021 17:08	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	90.6		70.0-130		05/05/2021 17:08	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.3		4.00	1	05/09/2021 16:36	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	86.7		4.00	1	05/09/2021 16:36	<a href="#">WG1666661</a>
(S) o-Terphenyl	70.3		18.0-148		05/09/2021 16:36	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 13:26	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:26	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:26	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:26	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	76.6		23.0-120		05/08/2021 13:26	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	56.6		14.0-149		05/08/2021 13:26	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	63.0		34.0-125		05/08/2021 13:26	<a href="#">WG1666659</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.59		1	05/08/2021 19:53	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 20:38	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	8.51	<a href="#">T8</a>		1	05/10/2021 00:42	<a href="#">WG1666893</a>

## Sample Narrative:

L1346831-02 WG1666893: 8.51 at 23.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	442		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	315		0.500	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Copper	21.5		2.00	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Lead	13.6		0.500	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Nickel	21.0		2.00	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:39	<a href="#">WG1665035</a>
Zinc	55.7		5.00	1	05/08/2021 03:39	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

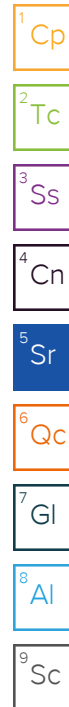
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.272		0.200	1	05/08/2021 20:59	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	14.5		1.00	5	05/07/2021 16:06	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.322	<a href="#">B</a>	0.100	1	05/08/2021 22:48	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	100		77.0-120		05/08/2021 22:48	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/05/2021 17:27	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 17:27	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 17:27	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 17:27	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 17:27	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:27	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:27	<a href="#">WG1665048</a>
(S) Toluene-d8	102		75.0-131		05/05/2021 17:27	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.8		67.0-138		05/05/2021 17:27	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	93.1		70.0-130		05/05/2021 17:27	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	23.2		4.00	1	05/08/2021 18:07	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	92.7		4.00	1	05/08/2021 18:07	<a href="#">WG1666661</a>
(S) o-Terphenyl	61.6		18.0-148		05/08/2021 18:07	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 13:43	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:43	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:43	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:43	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	77.8		23.0-120		05/08/2021 13:43	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	61.6		14.0-149		05/08/2021 13:43	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	66.7		34.0-125		05/08/2021 13:43	<a href="#">WG1666659</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.68		1	05/08/2021 19:56	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 18:38	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.64	<a href="#">T8</a>	1	05/10/2021 00:42	<a href="#">WG1666893</a>

## Sample Narrative:

L1346831-03 WG1666893: 8.64 at 23.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	408		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	294		0.500	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Copper	17.4		2.00	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Lead	10.4		0.500	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Nickel	16.4		2.00	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:43	<a href="#">WG1665035</a>
Zinc	53.2		5.00	1	05/08/2021 03:43	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

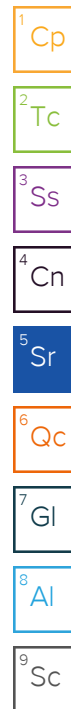
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.295		0.200	1	05/08/2021 21:02	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.2		1.00	5	05/07/2021 16:09	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.846		0.100	1	05/08/2021 23:12	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	100		77.0-120		05/08/2021 23:12	<a href="#">WG1666995</a>



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

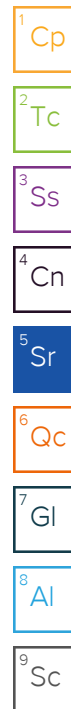
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/05/2021 17:46	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 17:46	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 17:46	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 17:46	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 17:46	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:46	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 17:46	<a href="#">WG1665048</a>
(S) Toluene-d8	104		75.0-131		05/05/2021 17:46	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.4		67.0-138		05/05/2021 17:46	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	94.6		70.0-130		05/05/2021 17:46	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	27.4		4.00	1	05/08/2021 17:41	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	112		4.00	1	05/08/2021 17:41	<a href="#">WG1666661</a>
(S) o-Terphenyl	57.5		18.0-148		05/08/2021 17:41	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 14:01	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:01	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:01	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:01	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	74.6		23.0-120		05/08/2021 14:01	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	48.1		14.0-149		05/08/2021 14:01	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	56.1		34.0-125		05/08/2021 14:01	<a href="#">WG1666659</a>



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.48		1	05/08/2021 19:58	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 18:49	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	8.48	<a href="#">T8</a>		1	05/10/2021 00:42	<a href="#">WG1666893</a>

## Sample Narrative:

L1346831-04 WG1666893: 8.48 at 23.6C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	450		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	194		0.500	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Copper	19.0		2.00	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Lead	10.8		0.500	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Nickel	16.9		2.00	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:51	<a href="#">WG1665035</a>
Zinc	60.5		5.00	1	05/08/2021 03:51	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

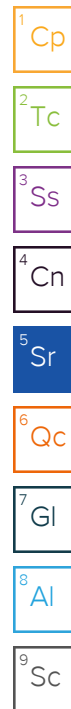
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.286		0.200	1	05/08/2021 21:05	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.37		1.00	5	05/07/2021 16:19	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.595		0.101	1.01	05/08/2021 23:36	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	98.6		77.0-120		05/08/2021 23:36	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00105		0.00100	1	05/05/2021 18:05	<a href="#">WG1665048</a>
Toluene	0.00567		0.00500	1	05/05/2021 18:05	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 18:05	<a href="#">WG1665048</a>
Xylenes, Total	0.0119		0.00650	1	05/05/2021 18:05	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 18:05	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:05	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:05	<a href="#">WG1665048</a>
(S) Toluene-d8	105		75.0-131		05/05/2021 18:05	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	92.2		67.0-138		05/05/2021 18:05	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	85.2		70.0-130		05/05/2021 18:05	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.49		4.00	1	05/08/2021 17:28	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	20.4		4.00	1	05/08/2021 17:28	<a href="#">WG1666661</a>
(S) o-Terphenyl	84.7		18.0-148		05/08/2021 17:28	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 14:18	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:18	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:18	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:18	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	70.4		23.0-120		05/08/2021 14:18	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	61.0		14.0-149		05/08/2021 14:18	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	59.2		34.0-125		05/08/2021 14:18	<a href="#">WG1666659</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.75		1	05/08/2021 20:01	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 18:54	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.74	<a href="#">T8</a>	1	05/10/2021 00:42	<a href="#">WG1666893</a>

## Sample Narrative:

L1346831-05 WG1666893: 8.74 at 23.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	400		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	104		0.500	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Copper	18.0		2.00	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Lead	12.4		0.500	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Nickel	16.4		2.00	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:54	<a href="#">WG1665035</a>
Zinc	59.4		5.00	1	05/08/2021 03:54	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

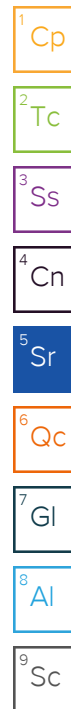
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.312		0.200	1	05/08/2021 21:08	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.71		1.00	5	05/07/2021 16:23	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.07		0.100	1	05/09/2021 00:00	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	94.9		77.0-120		05/09/2021 00:00	<a href="#">WG1666995</a>



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

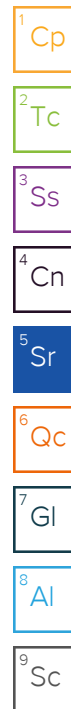
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/05/2021 18:25	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 18:25	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 18:25	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 18:25	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 18:25	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:25	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:25	<a href="#">WG1665048</a>
(S) Toluene-d8	104		75.0-131		05/05/2021 18:25	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	93.4		67.0-138		05/05/2021 18:25	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	89.7		70.0-130		05/05/2021 18:25	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 15:56	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	ND		4.00	1	05/08/2021 15:56	<a href="#">WG1666661</a>
(S) o-Terphenyl	82.5		18.0-148		05/08/2021 15:56	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 14:36	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:36	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:36	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:36	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	68.1		23.0-120		05/08/2021 14:36	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	54.5		14.0-149		05/08/2021 14:36	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	49.3		34.0-125		05/08/2021 14:36	<a href="#">WG1666659</a>





## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.44		1	05/08/2021 20:04	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 18:59	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.67	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346831-06 WG1666894: 8.67 at 21.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	546		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	176		0.500	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Copper	18.0		2.00	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Lead	9.66		0.500	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Nickel	16.5		2.00	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Selenium	2.22		2.00	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 03:57	<a href="#">WG1665035</a>
Zinc	52.6		5.00	1	05/08/2021 03:57	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

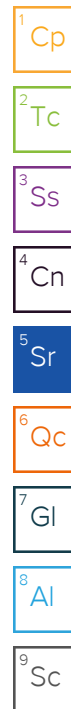
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.326		0.200	1	05/08/2021 21:11	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.35		1.00	5	05/07/2021 16:26	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.567		0.101	1.01	05/09/2021 00:24	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	94.8		77.0-120		05/09/2021 00:24	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00120		0.00100	1	05/05/2021 18:44	<a href="#">WG1665048</a>
Toluene	0.00657		0.00500	1	05/05/2021 18:44	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 18:44	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 18:44	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 18:44	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:44	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 18:44	<a href="#">WG1665048</a>
(S) Toluene-d8	101		75.0-131		05/05/2021 18:44	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.2		67.0-138		05/05/2021 18:44	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	85.3		70.0-130		05/05/2021 18:44	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 16:09	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	4.88	B	4.00	1	05/08/2021 16:09	<a href="#">WG1666661</a>
(S) o-Terphenyl	73.9		18.0-148		05/08/2021 16:09	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 14:53	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:53	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:53	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:53	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	74.1		23.0-120		05/08/2021 14:53	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	60.0		14.0-149		05/08/2021 14:53	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	62.7		34.0-125		05/08/2021 14:53	<a href="#">WG1666659</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.20		1	05/08/2021 20:07	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:04	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	RDL	Dilution	Analysis date / time	Batch
pH	8.70	<a href="#">T8</a>		1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346831-07 WG1666894: 8.7 at 21.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	681		10.0	1	05/05/2021 18:11	<a href="#">WG1664795</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	178		0.500	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Copper	18.5		2.00	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Lead	10.3		0.500	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Nickel	16.5		2.00	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Selenium	2.17		2.00	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:00	<a href="#">WG1665035</a>
Zinc	55.2		5.00	1	05/08/2021 04:00	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.326		0.200	1	05/08/2021 21:13	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.53		1.00	5	05/07/2021 16:30	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.546		0.100	1	05/09/2021 00:48	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	97.3		77.0-120		05/09/2021 00:48	<a href="#">WG1666995</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/05/2021 19:03	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 19:03	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 19:03	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 19:03	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 19:03	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:03	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:03	<a href="#">WG1665048</a>
(S) Toluene-d8	101		75.0-131		05/05/2021 19:03	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	93.6		67.0-138		05/05/2021 19:03	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	83.8		70.0-130		05/05/2021 19:03	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 16:23	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	9.62	B	4.00	1	05/08/2021 16:23	<a href="#">WG1666661</a>
(S) o-Terphenyl	83.3		18.0-148		05/08/2021 16:23	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Chrysene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Fluorene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Naphthalene	ND		0.0200	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
Pyrene	ND		0.00600	1	05/08/2021 15:11	<a href="#">WG1666659</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:11	<a href="#">WG1666659</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:11	<a href="#">WG1666659</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:11	<a href="#">WG1666659</a>
(S) p-Terphenyl-d14	53.0		23.0-120		05/08/2021 15:11	<a href="#">WG1666659</a>
(S) Nitrobenzene-d5	43.5		14.0-149		05/08/2021 15:11	<a href="#">WG1666659</a>
(S) 2-Fluorobiphenyl	44.5		34.0-125		05/08/2021 15:11	<a href="#">WG1666659</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3653931-1 05/11/21 18:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1346831-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346831-03 05/11/21 18:38 • (DUP) R3653931-3 05/11/21 18:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

L1347489-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1347489-02 05/11/21 20:01 • (DUP) R3653931-4 05/11/21 20:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R3653931-2 05/11/21 18:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.5	105	80.0-120	

L1346831-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-02 05/11/21 20:38 • (MS) R3653931-5 05/11/21 20:43 • (MSD) R3653931-6 05/11/21 20:48

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	16.9	16.6	84.3	82.9	1	75.0-125			1.71	20

L1346831-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346831-02 05/11/21 20:38 • (MS) R3653931-7 05/11/21 20:53

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	650	ND	581	89.3	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3654626-1 05/14/21 10:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1346831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1346831-01 05/14/21 11:14 • (DUP) R3654626-3 05/14/21 11:20

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

L1350371-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1350371-02 05/14/21 12:27 • (DUP) R3654626-4 05/14/21 12:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3654626-2 05/14/21 11:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	11.8	118	80.0-120	

L1350828-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1350828-01 05/14/21 13:09 • (MS) R3654626-5 05/14/21 13:14 • (MSD) R3654626-6 05/14/21 13:19

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	5.20	6.46	26.0	32.3	1	75.0-125	J6	J3 J6	21.6	20

L1350828-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1350828-01 05/14/21 13:09 • (MS) R3654626-7 05/14/21 13:24

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	644	ND	492	76.4	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346265-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1346265-12 05/10/21 00:42 • (DUP) R3652209-2 05/10/21 00:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	6.69	6.64	1	0.750		1

Sample Narrative:

OS: 6.69 at 23.1C

DUP: 6.64 at 23.9C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1346831-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1346831-02 05/10/21 00:42 • (DUP) R3652209-3 05/10/21 00:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.51	8.47	1	0.471		1

Sample Narrative:

OS: 8.51 at 23.1C

DUP: 8.47 at 23.4C

Laboratory Control Sample (LCS)

(LCS) R3652209-1 05/10/21 00:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 21.2C

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 09:10 • (DUP) R3652053-2 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.12	8.13	1	0.123		1

Sample Narrative:

OS: 8.12 at 21.3C

DUP: 8.13 at 21.3C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 09:10 • (DUP) R3652053-3 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.50	1	0.235		1

Sample Narrative:

OS: 8.52 at 21.4C

DUP: 8.5 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3652053-1 05/09/21 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 20.4C



Method Blank (MB)

(MB) R3650838-1 05/05/21 18:11

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1345774-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1345774-01 05/05/21 18:11 • (DUP) R3650838-3 05/05/21 18:11

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	585	586	1	0.171		20

L1346831-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1346831-07 05/05/21 18:11 • (DUP) R3650838-4 05/05/21 18:11

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	681	628	1	8.10		20

Laboratory Control Sample (LCS)

(LCS) R3650838-2 05/05/21 18:11

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	741	744	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3651957-1 05/08/21 03:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3651957-2 05/08/21 03:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	102	102	80.0-120	
Cadmium	100	97.5	97.5	80.0-120	
Copper	100	96.9	96.9	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	98.5	98.5	80.0-120	
Silver	20.0	18.0	89.8	80.0-120	
Zinc	100	96.5	96.5	80.0-120	

L1346831-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-01 05/08/21 03:22 • (MS) R3651957-5 05/08/21 03:30 • (MSD) R3651957-6 05/08/21 03:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	287	395	373	108	85.1	1	75.0-125			5.96	20
Cadmium	100	ND	97.9	99.9	97.5	99.5	1	75.0-125			1.98	20
Copper	100	19.3	115	120	96.0	100	1	75.0-125			3.66	20
Lead	100	11.2	114	118	102	107	1	75.0-125			3.75	20
Nickel	100	19.1	123	128	104	109	1	75.0-125			3.83	20
Selenium	100	ND	99.5	102	98.0	100	1	75.0-125			2.45	20
Silver	20.0	ND	18.6	19.0	92.8	94.8	1	75.0-125			2.15	20
Zinc	100	57.9	141	148	83.1	90.5	1	75.0-125			5.10	20

Method Blank (MB)

(MB) R3652250-1 05/08/21 20:49

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652250-2 05/08/21 20:51 • (LCSD) R3652250-3 05/08/21 20:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.957	0.967	95.7	96.7	80.0-120			0.953	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3651837-1 05/07/21 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3651837-2 05/07/21 15:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.6	95.6	80.0-120	

L1346831-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-01 05/07/21 15:45 • (MS) R3651837-5 05/07/21 15:55 • (MSD) R3651837-6 05/07/21 15:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	12.0	105	110	93.1	98.3	5	75.0-125			4.80	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652022-2 05/08/21 08:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.1			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652022-1 05/08/21 08:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.05	110	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652584-2 05/08/21 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0530	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652584-1 05/08/21 20:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.61	120	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			117	77.0-120	

L1346698-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346698-07 05/08/21 21:37 • (MS) R3652584-3 05/09/21 05:34 • (MSD) R3652584-4 05/09/21 05:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	1.65	2.01	28.6	35.1	1	10.0-151			19.7	28
(S) a,a,a-Trifluorotoluene(FID)					98.3	101		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652151-3 05/05/21 13:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.2			75.0-131
(S) 4-Bromofluorobenzene	95.9			67.0-138
(S) 1,2-Dichloroethane-d4	80.3			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652151-1 05/05/21 11:59 • (LCSD) R3652151-2 05/05/21 12:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.128	0.117	102	93.6	70.0-123			8.98	20
Ethylbenzene	0.125	0.120	0.112	96.0	89.6	74.0-126			6.90	20
Naphthalene	0.125	0.118	0.115	94.4	92.0	59.0-130			2.58	20
Toluene	0.125	0.120	0.111	96.0	88.8	75.0-121			7.79	20
1,2,4-Trimethylbenzene	0.125	0.129	0.118	103	94.4	70.0-126			8.91	20
1,3,5-Trimethylbenzene	0.125	0.117	0.110	93.6	88.0	73.0-127			6.17	20
Xylenes, Total	0.375	0.387	0.352	103	93.9	72.0-127			9.47	20
(S) Toluene-d8				97.0	98.2	75.0-131				
(S) 4-Bromofluorobenzene				96.6	97.9	67.0-138				
(S) 1,2-Dichloroethane-d4				102	101	70.0-130				

L1346835-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346835-02 05/05/21 21:15 • (MS) R3652151-4 05/05/21 22:31 • (MSD) R3652151-5 05/05/21 22:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	1.00	0.281	1.02	1.01	73.9	72.9	8	10.0-149			0.985	37
Ethylbenzene	1.00	0.887	2.18	2.16	129	127	8	10.0-160			0.922	38
Naphthalene	1.00	ND	0.854	0.945	85.4	94.5	8	10.0-160			10.1	36
Toluene	1.00	10.2	18.8	19.3	860	910	8	10.0-156	V	V	2.62	38
1,2,4-Trimethylbenzene	1.00	0.154	0.850	0.861	69.6	70.7	8	10.0-160			1.29	36
1,3,5-Trimethylbenzene	1.00	0.243	0.968	0.993	72.5	75.0	8	10.0-160			2.55	38
Xylenes, Total	3.00	12.2	23.6	24.4	380	407	8	10.0-160	V	V	3.33	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346835-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346835-02 05/05/21 21:15 • (MS) R3652151-4 05/05/21 22:31 • (MSD) R3652151-5 05/05/21 22:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					98.3	102		75.0-131				
(S) 4-Bromofluorobenzene					97.9	97.5		67.0-138				
(S) 1,2-Dichloroethane-d4					100	97.7		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3652132-1 05/08/21 14:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	1.47	⬇	0.274	4.00
(S) o-Terphenyl	79.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3652132-2 05/08/21 14:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.2	92.4	50.0-150	
(S) o-Terphenyl			65.5	18.0-148	

L1346859-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346859-02 05/08/21 14:51 • (MS) R3652132-3 05/08/21 15:04 • (MSD) R3652132-4 05/08/21 15:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.8	ND	44.3	44.4	92.7	93.3	1	50.0-150			0.225	20
(S) o-Terphenyl					50.5	53.8		18.0-148				

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Gl

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Sc

Method Blank (MB)

(MB) R3652400-2 05/08/21 10:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	43.8			14.0-149
(S) 2-Fluorobiphenyl	53.7			34.0-125
(S) p-Terphenyl-d14	68.8			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3652400-1 05/08/21 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0553	69.1	50.0-126	
Acenaphthene	0.0800	0.0574	71.8	50.0-120	
Acenaphthylene	0.0800	0.0560	70.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0562	70.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0510	63.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0631	78.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0607	75.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0614	76.8	49.0-125	
Chrysene	0.0800	0.0605	75.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0581	72.6	47.0-125	
Fluoranthene	0.0800	0.0583	72.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3652400-1 05/08/21 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0588	73.5	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0555	69.4	46.0-125	
Naphthalene	0.0800	0.0536	67.0	50.0-120	
Phenanthrene	0.0800	0.0595	74.4	47.0-120	
Pyrene	0.0800	0.0606	75.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0557	69.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0536	67.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0569	71.1	50.0-120	
(S) Nitrobenzene-d5			62.0	14.0-149	
(S) 2-Fluorobiphenyl			63.2	34.0-125	
(S) p-Terphenyl-d14			74.3	23.0-120	

L1346717-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346717-02 05/08/21 11:07 • (MS) R3652400-3 05/08/21 11:24 • (MSD) R3652400-4 05/08/21 11:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	ND	0.0416	0.0475	52.0	60.6	1	10.0-145			13.2	30
Acenaphthene	0.0800	ND	0.0429	0.0489	53.6	62.4	1	14.0-127			13.1	27
Acenaphthylene	0.0800	ND	0.0416	0.0471	52.0	60.1	1	21.0-124			12.4	25
Benzo(a)anthracene	0.0800	ND	0.0418	0.0472	52.3	60.2	1	10.0-139			12.1	30
Benzo(a)pyrene	0.0800	ND	0.0423	0.0480	52.9	61.2	1	10.0-141			12.6	31
Benzo(b)fluoranthene	0.0800	ND	0.0486	0.0553	60.8	70.5	1	10.0-140			12.9	36
Benzo(g,h,i)perylene	0.0800	ND	0.0470	0.0538	58.7	68.6	1	10.0-140			13.5	33
Benzo(k)fluoranthene	0.0800	ND	0.0463	0.0527	57.9	67.2	1	10.0-137			12.9	31
Chrysene	0.0800	ND	0.0457	0.0517	57.1	65.9	1	10.0-145			12.3	30
Dibenz(a,h)anthracene	0.0800	ND	0.0437	0.0497	54.6	63.4	1	10.0-132			12.8	31
Fluoranthene	0.0800	ND	0.0438	0.0499	54.8	63.6	1	10.0-153			13.0	33
Fluorene	0.0800	ND	0.0441	0.0503	55.1	64.2	1	11.0-130			13.1	29
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0414	0.0475	51.8	60.6	1	10.0-137			13.7	32
Naphthalene	0.0800	ND	0.0400	0.0466	50.0	59.4	1	10.0-135			15.2	27
Phenanthrene	0.0800	ND	0.0450	0.0512	56.3	65.3	1	10.0-144			12.9	31
Pyrene	0.0800	ND	0.0467	0.0529	58.4	67.5	1	10.0-148			12.4	35
1-Methylnaphthalene	0.0800	ND	0.0410	0.0467	51.3	59.6	1	10.0-142			13.0	28
2-Methylnaphthalene	0.0800	ND	0.0397	0.0459	49.6	58.5	1	10.0-137			14.5	28
2-Chloronaphthalene	0.0800	ND	0.0428	0.0486	53.5	62.0	1	29.0-120			12.7	24
(S) Nitrobenzene-d5					48.1	53.1		14.0-149				
(S) 2-Fluorobiphenyl					51.6	58.1		34.0-125				
(S) p-Terphenyl-d14					59.7	67.7		23.0-120				

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# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

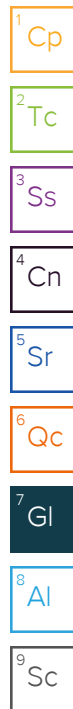
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122



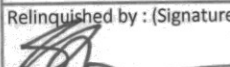

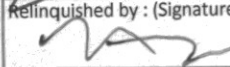
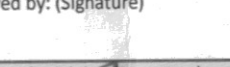
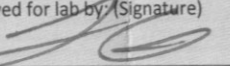
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



<b>Entrada Consulting Group</b>  240 Mesa Avenue Grand Junction, CO 81501		Billing Information: Stuart Hall 240 Mesa Ave. Grand Junction, CO 81501		Pres Chk		Analysis / Container / Preservative										Chain of Custody    Page ____ of ____							
		Report to: <b>Stuart Hall</b>		Email To: shall@entradainc.com;												 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859							
Project Description: <b>Baker Canyon</b>		City/State Collected: <b>DeHogu CO</b>		Please Circle: PT MT CT ET												SDG # <b>L1346831</b> <b>C094</b>							
Phone: <b>970-640-0568</b>		Client Project # <b>021-054</b>		Lab Project # <b>ENTCONGJCO-915</b>												Acctnum: <b>ENTCONGJCO</b> Template: <b>T180603</b>							
Collected by (print): <b>A. Johnson</b>		Site/Facility ID #		P.O. #												Prelogin: <b>P822819</b> PM: <b>824 - Chris Ward</b>							
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) ___ Same Day    ___ Five Day ___ Next Day    ___ 5 Day (Rad Only) ___ Two Day    ___ 10 Day (Rad Only) ___ Three Day		Quote #												PB:							
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>		Date Results Needed		No. of Cntrs												Shipped Via: <b>FedEX Ground</b>							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		Table915 GRO/DRO/ORO 4ozClr-NoPres	Table915 Metals 4ozClr-NoPres	Table915 PAHs 4ozClr-NoPres	Table915 VOCs 4ozClr-NoPres	Table915 pH SPCONSAR 4ozClr-NoPres							Remarks	Sample # (lab only)				
502-SS1	Grab	SS	8-10'	4/20/21	1200	62	X	X	X	X	X								01				
502-SS2			15-17'		1220	2	X	X	X	X	X								02				
502-SS3			20-22'		1230	2	X	X	X	X	X								03				
502-SS4			25-27'		1240	2	X	X	X	X	X								04				
502-SS5			30-32'		1255	2	X	X	X	X	X								05				
502-SS6			35-37'		1300	2	X	X	X	X	X								06				
502-SS7			40-42'		1330	2	X	X	X	X	X								07				
* Matrix: SS - Soil    AIR - Air    F - Filter GW - Groundwater    B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:										pH _____ Temp _____ Flow _____ Other _____		<b>Sample Receipt Checklist</b> COC Seal Present/Intact: <input checked="" type="checkbox"/> NP    Y    N COC Signed/Accurate: <input checked="" type="checkbox"/> Y    N Bottles arrive intact: <input checked="" type="checkbox"/> Y    N Correct bottles used: <input checked="" type="checkbox"/> Y    N Sufficient volume sent: <input checked="" type="checkbox"/> Y    N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y    N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y    N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y    N									
Samples returned via: ___ UPS    ___ FedEx    ___ Courier		Tracking #										Relinquished by: (Signature) 		Date: <b>4/30/21</b> Time: <b>1130</b>		Received by: (Signature) 		Trip Blank Received: Yes/No HCL/MeOH TBR					
Relinquished by: (Signature) 												Date: <b>4/30/21</b> Time: <b>1200</b>		Received by: (Signature) 		Temp: <b>3.7-13.6</b> °C    Bottles Received: <b>14</b>		If preservation required by Login: Date/Time					
Relinquished by: (Signature)												Date:		Time:		Received for lab by: (Signature) 		Date: <b>5/1/21</b> Time: <b>1000</b>		Hold:		Condition: NCF / <b>OK</b>	




**Entrada Consulting Group**

Sample Delivery Group: L1346835  
Samples Received: 05/01/2021  
Project Number: 021-054  
Description: Baker Canyon

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

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# SAMPLE SUMMARY

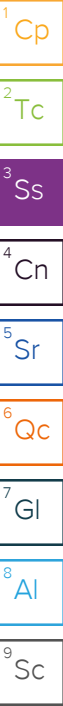
## SB3-SS1 L1346835-01 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 14:40

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:10	05/08/21 20:10	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:20	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:03	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:21	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:33	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666997	2000	05/04/21 18:00	05/10/21 12:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1667298	40	05/04/21 18:00	05/10/21 00:21	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/09/21 15:44	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 11:38	AAT	Mt. Juliet, TN



## SB3-SS2 L1346835-02 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 15:15

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:18	05/08/21 20:18	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:25	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:06	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:24	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666997	25	05/04/21 18:00	05/10/21 04:43	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	8	05/04/21 18:00	05/05/21 21:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 18:33	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 11:56	AAT	Mt. Juliet, TN

## SB3-SS3 L1346835-03 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 15:25

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:21	05/08/21 20:21	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:30	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:09	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:27	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666997	25	05/04/21 18:00	05/10/21 05:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	8	05/04/21 18:00	05/05/21 21:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 18:46	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 15:23	AAT	Mt. Juliet, TN

## SB3-SS4 L1346835-04 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 15:45

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:24	05/08/21 20:24	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:35	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:12	KMG	Mt. Juliet, TN

# SAMPLE SUMMARY

## SB3-SS4 L1346835-04 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 15:45

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:30	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:43	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667699	1000	05/04/21 18:00	05/10/21 20:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	8	05/04/21 18:00	05/05/21 21:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1667298	80	05/04/21 18:00	05/10/21 00:39	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/09/21 17:02	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 12:13	AAT	Mt. Juliet, TN



## SB3-SS5 L1346835-05 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 16:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:26	05/08/21 20:26	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:40	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:15	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:33	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 18:00	05/09/21 01:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 18:00	05/05/21 19:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 16:36	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 12:30	AAT	Mt. Juliet, TN

## SB3-SS6 L1346835-06 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 16:16

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:29	05/08/21 20:29	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:46	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:18	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	1	05/07/21 12:02	05/08/21 21:35	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 16:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 18:00	05/09/21 01:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 18:00	05/05/21 19:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 16:49	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 12:48	AAT	Mt. Juliet, TN

## SB3-SS7 L1346835-07 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 16:35

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:32	05/08/21 20:32	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1665601	1	05/11/21 15:00	05/11/21 19:51	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1668046	1	05/11/21 06:01	05/11/21 07:31	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667152	1	05/11/21 03:00	05/11/21 06:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665035	1	05/06/21 06:51	05/08/21 04:26	KMG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663259	5	05/07/21 12:02	05/08/21 21:38	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665039	5	05/06/21 06:48	05/07/21 17:01	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667924	1	05/04/21 18:00	05/10/21 18:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665048	1	05/04/21 18:00	05/05/21 19:59	DWR	Mt. Juliet, TN

# SAMPLE SUMMARY

SB3-SS7 L1346835-07 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 16:35

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666661	1	05/08/21 00:20	05/08/21 17:15	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666660	1	05/08/21 00:16	05/08/21 13:05	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.81		1	05/08/2021 20:10	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:20	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.71	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-01 WG1666894: 8.71 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	205		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	279		0.500	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Copper	19.5		2.00	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Lead	13.0		0.500	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Nickel	20.3		2.00	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:03	<a href="#">WG1665035</a>
Zinc	65.2		5.00	1	05/08/2021 04:03	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

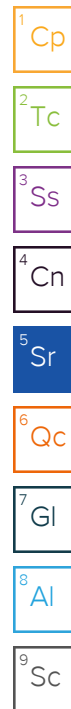
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.242		0.200	1	05/08/2021 21:21	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	15.5		1.00	5	05/07/2021 16:33	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	464		200	2000	05/10/2021 12:25	<a href="#">WG1666997</a>
(S) a,a,a-Trifluorotoluene(FID)	95.2		77.0-120		05/10/2021 12:25	<a href="#">WG1666997</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.377		0.0400	40	05/10/2021 00:21	<a href="#">WG1667298</a>
Toluene	32.0		0.200	40	05/10/2021 00:21	<a href="#">WG1667298</a>
Ethylbenzene	4.91		0.100	40	05/10/2021 00:21	<a href="#">WG1667298</a>
Xylenes, Total	76.6		0.260	40	05/10/2021 00:21	<a href="#">WG1667298</a>
Naphthalene	2.75		0.500	40	05/10/2021 00:21	<a href="#">WG1667298</a>
1,2,4-Trimethylbenzene	1.90		0.200	40	05/10/2021 00:21	<a href="#">WG1667298</a>
1,3,5-Trimethylbenzene	1.82		0.200	40	05/10/2021 00:21	<a href="#">WG1667298</a>
(S) Toluene-d8	108		75.0-131		05/10/2021 00:21	<a href="#">WG1667298</a>
(S) 4-Bromofluorobenzene	117		67.0-138		05/10/2021 00:21	<a href="#">WG1667298</a>
(S) 1,2-Dichloroethane-d4	117		70.0-130		05/10/2021 00:21	<a href="#">WG1667298</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.7		4.00	1	05/09/2021 15:44	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	70.6		4.00	1	05/09/2021 15:44	<a href="#">WG1666661</a>
(S) o-Terphenyl	61.9		18.0-148		05/09/2021 15:44	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 11:38	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 11:38	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 11:38	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 11:38	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	79.6		23.0-120		05/08/2021 11:38	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	69.7		14.0-149		05/08/2021 11:38	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	65.1		34.0-125		05/08/2021 11:38	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.39		1	05/08/2021 20:18	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:25	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.51	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-02 WG1666894: 8.51 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	288		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	419		0.500	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Copper	17.8		2.00	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Lead	10.8		0.500	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Nickel	17.7		2.00	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:06	<a href="#">WG1665035</a>
Zinc	62.3		5.00	1	05/08/2021 04:06	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

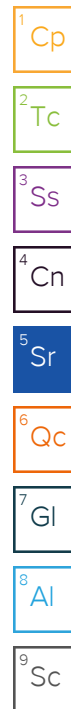
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.307		0.200	1	05/08/2021 21:24	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.84		1.00	5	05/07/2021 16:37	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	257		2.50	25	05/10/2021 04:43	<a href="#">WG1666997</a>
(S) a,a,a-Trifluorotoluene(FID)	90.8		77.0-120		05/10/2021 04:43	<a href="#">WG1666997</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.281		0.00800	8	05/05/2021 21:15	<a href="#">WG1665048</a>
Toluene	10.2	<u>V</u>	0.0400	8	05/05/2021 21:15	<a href="#">WG1665048</a>
Ethylbenzene	0.887		0.0200	8	05/05/2021 21:15	<a href="#">WG1665048</a>
Xylenes, Total	12.2	<u>V</u>	0.0520	8	05/05/2021 21:15	<a href="#">WG1665048</a>
Naphthalene	ND		0.100	8	05/05/2021 21:15	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	0.154		0.0400	8	05/05/2021 21:15	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	0.243		0.0400	8	05/05/2021 21:15	<a href="#">WG1665048</a>
(S) Toluene-d8	99.7		75.0-131		05/05/2021 21:15	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	98.7		67.0-138		05/05/2021 21:15	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	101		70.0-130		05/05/2021 21:15	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.1		4.00	1	05/08/2021 18:33	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	65.4		4.00	1	05/08/2021 18:33	<a href="#">WG1666661</a>
(S) o-Terphenyl	47.5		18.0-148		05/08/2021 18:33	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 11:56	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 11:56	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 11:56	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 11:56	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	47.9		23.0-120		05/08/2021 11:56	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	36.7		14.0-149		05/08/2021 11:56	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	38.7		34.0-125		05/08/2021 11:56	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.45		1	05/08/2021 20:21	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:30	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-03 WG1666894: 8.12 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	246		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	207		0.500	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Copper	15.7		2.00	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Lead	7.12		0.500	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Nickel	12.1		2.00	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:09	<a href="#">WG1665035</a>
Zinc	43.9		5.00	1	05/08/2021 04:09	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

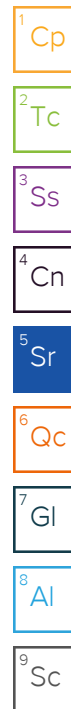
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.282		0.200	1	05/08/2021 21:27	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.02		1.00	5	05/07/2021 16:40	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	118		2.50	25	05/10/2021 05:05	<a href="#">WG1666997</a>
(S) a,a,a-Trifluorotoluene(FID)	87.7		77.0-120		05/10/2021 05:05	<a href="#">WG1666997</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.657		0.00800	8	05/05/2021 21:34	<a href="#">WG1665048</a>
Toluene	1.99		0.0400	8	05/05/2021 21:34	<a href="#">WG1665048</a>
Ethylbenzene	0.0836		0.0200	8	05/05/2021 21:34	<a href="#">WG1665048</a>
Xylenes, Total	1.15		0.0520	8	05/05/2021 21:34	<a href="#">WG1665048</a>
Naphthalene	ND		0.100	8	05/05/2021 21:34	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.0400	8	05/05/2021 21:34	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.0400	8	05/05/2021 21:34	<a href="#">WG1665048</a>
(S) Toluene-d8	99.7		75.0-131		05/05/2021 21:34	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	99.5		67.0-138		05/05/2021 21:34	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	96.4		70.0-130		05/05/2021 21:34	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	26.4		4.00	1	05/08/2021 18:46	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	101		4.00	1	05/08/2021 18:46	<a href="#">WG1666661</a>
(S) o-Terphenyl	53.1		18.0-148		05/08/2021 18:46	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 15:23	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:23	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:23	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:23	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	86.1		23.0-120		05/08/2021 15:23	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	59.3		14.0-149		05/08/2021 15:23	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	64.9		34.0-125		05/08/2021 15:23	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.86		1	05/08/2021 20:24	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:35	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.51	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-04 WG1666894: 8.51 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	326		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	181		0.500	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Copper	16.6		2.00	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Lead	9.56		0.500	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Nickel	14.1		2.00	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:12	<a href="#">WG1665035</a>
Zinc	51.2		5.00	1	05/08/2021 04:12	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

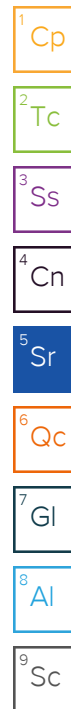
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.328		0.200	1	05/08/2021 21:30	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.43		1.00	5	05/07/2021 16:43	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1440		100	1000	05/10/2021 20:57	<a href="#">WG1667699</a>
(S) a,a,a-Trifluorotoluene(FID)	98.7		77.0-120		05/10/2021 20:57	<a href="#">WG1667699</a>



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

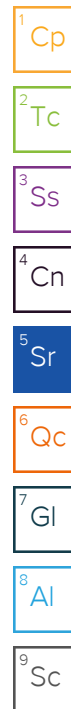
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	1.36		0.00800	8	05/05/2021 21:53	<a href="#">WG1665048</a>
Toluene	37.5		0.400	80	05/10/2021 00:39	<a href="#">WG1667298</a>
Ethylbenzene	3.05		0.0200	8	05/05/2021 21:53	<a href="#">WG1665048</a>
Xylenes, Total	44.3		0.0520	8	05/05/2021 21:53	<a href="#">WG1665048</a>
Naphthalene	0.298		0.100	8	05/05/2021 21:53	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	6.95		0.0400	8	05/05/2021 21:53	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	5.82		0.0400	8	05/05/2021 21:53	<a href="#">WG1665048</a>
(S) Toluene-d8	108		75.0-131		05/05/2021 21:53	<a href="#">WG1665048</a>
(S) Toluene-d8	108		75.0-131		05/10/2021 00:39	<a href="#">WG1667298</a>
(S) 4-Bromofluorobenzene	102		67.0-138		05/05/2021 21:53	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	117		67.0-138		05/10/2021 00:39	<a href="#">WG1667298</a>
(S) 1,2-Dichloroethane-d4	92.6		70.0-130		05/05/2021 21:53	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	117		70.0-130		05/10/2021 00:39	<a href="#">WG1667298</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	62.7		4.00	1	05/09/2021 17:02	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	115		4.00	1	05/09/2021 17:02	<a href="#">WG1666661</a>
(S) o-Terphenyl	38.7		18.0-148		05/09/2021 17:02	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Naphthalene	0.0778		0.0200	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 12:13	<a href="#">WG1666660</a>
1-Methylnaphthalene	0.0428		0.0200	1	05/08/2021 12:13	<a href="#">WG1666660</a>
2-Methylnaphthalene	0.124		0.0200	1	05/08/2021 12:13	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 12:13	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	56.5		23.0-120		05/08/2021 12:13	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	55.4		14.0-149		05/08/2021 12:13	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	42.2		34.0-125		05/08/2021 12:13	<a href="#">WG1666660</a>



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.05		1	05/08/2021 20:26	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:40	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.41	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-05 WG1666894: 8.41 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	372		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	197		0.500	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Copper	20.6		2.00	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Lead	10.9		0.500	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Nickel	17.0		2.00	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Selenium	2.26		2.00	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:15	<a href="#">WG1665035</a>
Zinc	56.2		5.00	1	05/08/2021 04:15	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

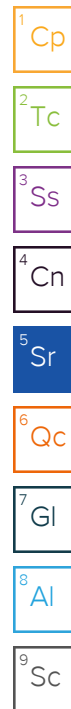
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.346		0.200	1	05/08/2021 21:33	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.46		1.00	5	05/07/2021 16:47	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.883		0.100	1	05/09/2021 01:12	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	96.3		77.0-120		05/09/2021 01:12	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00215		0.00100	1	05/05/2021 19:22	<a href="#">WG1665048</a>
Toluene	0.00666		0.00500	1	05/05/2021 19:22	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 19:22	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 19:22	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 19:22	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:22	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:22	<a href="#">WG1665048</a>
(S) Toluene-d8	103		75.0-131		05/05/2021 19:22	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.3		67.0-138		05/05/2021 19:22	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	82.0		70.0-130		05/05/2021 19:22	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 16:36	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	ND		4.00	1	05/08/2021 16:36	<a href="#">WG1666661</a>
(S) o-Terphenyl	73.0		18.0-148		05/08/2021 16:36	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 12:30	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:30	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:30	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 12:30	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	87.9		23.0-120		05/08/2021 12:30	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	64.9		14.0-149		05/08/2021 12:30	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	58.1		34.0-125		05/08/2021 12:30	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.30		1	05/08/2021 20:29	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:46	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.83	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346835-06 WG1666894: 8.83 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	530		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	169		0.500	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Copper	16.8		2.00	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Lead	9.40		0.500	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Nickel	15.7		2.00	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:18	<a href="#">WG1665035</a>
Zinc	52.6		5.00	1	05/08/2021 04:18	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

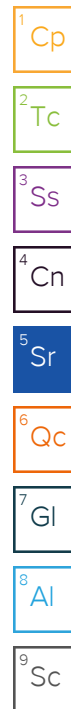
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.408		0.200	1	05/08/2021 21:35	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.23		1.00	5	05/07/2021 16:57	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.897		0.100	1	05/09/2021 01:35	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7		77.0-120		05/09/2021 01:35	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00104		0.00100	1	05/05/2021 19:41	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 19:41	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 19:41	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 19:41	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 19:41	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:41	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:41	<a href="#">WG1665048</a>
(S) Toluene-d8	102		75.0-131		05/05/2021 19:41	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.3		67.0-138		05/05/2021 19:41	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	87.2		70.0-130		05/05/2021 19:41	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 16:49	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	6.58	B	4.00	1	05/08/2021 16:49	<a href="#">WG1666661</a>
(S) o-Terphenyl	62.7		18.0-148		05/08/2021 16:49	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 12:48	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:48	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:48	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 12:48	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	67.8		23.0-120		05/08/2021 12:48	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	60.7		14.0-149		05/08/2021 12:48	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	49.7		34.0-125		05/08/2021 12:48	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.54		1	05/08/2021 20:32	WG1663243

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/11/2021 19:51	<a href="#">WG1665601</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.97	<a href="#">T8</a>	1	05/11/2021 07:31	<a href="#">WG1668046</a>

## Sample Narrative:

L1346835-07 WG1668046: 8.97 at 21.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	520		10.0	1	05/11/2021 06:49	<a href="#">WG1667152</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	124		0.500	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Cadmium	ND		0.500	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Copper	17.3		2.00	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Lead	12.2		0.500	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Nickel	16.6		2.00	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Selenium	ND		2.00	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Silver	ND		1.00	1	05/08/2021 04:26	<a href="#">WG1665035</a>
Zinc	57.9		5.00	1	05/08/2021 04:26	<a href="#">WG1665035</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

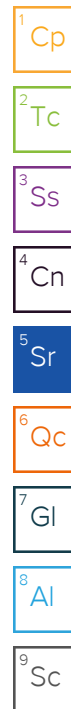
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	ND		1.00	5	05/08/2021 21:38	<a href="#">WG1663259</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.97		1.00	5	05/07/2021 17:01	<a href="#">WG1665039</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.476		0.100	1	05/10/2021 18:24	<a href="#">WG1667924</a>
(S) a,a,a-Trifluorotoluene(FID)	92.2		77.0-120		05/10/2021 18:24	<a href="#">WG1667924</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/05/2021 19:59	<a href="#">WG1665048</a>
Toluene	ND		0.00500	1	05/05/2021 19:59	<a href="#">WG1665048</a>
Ethylbenzene	ND		0.00250	1	05/05/2021 19:59	<a href="#">WG1665048</a>
Xylenes, Total	ND		0.00650	1	05/05/2021 19:59	<a href="#">WG1665048</a>
Naphthalene	ND		0.0125	1	05/05/2021 19:59	<a href="#">WG1665048</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:59	<a href="#">WG1665048</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/05/2021 19:59	<a href="#">WG1665048</a>
(S) Toluene-d8	102		75.0-131		05/05/2021 19:59	<a href="#">WG1665048</a>
(S) 4-Bromofluorobenzene	95.6		67.0-138		05/05/2021 19:59	<a href="#">WG1665048</a>
(S) 1,2-Dichloroethane-d4	83.4		70.0-130		05/05/2021 19:59	<a href="#">WG1665048</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 17:15	<a href="#">WG1666661</a>
C28-C36 Motor Oil Range	7.47	<a href="#">B</a>	4.00	1	05/08/2021 17:15	<a href="#">WG1666661</a>
(S) o-Terphenyl	78.2		18.0-148		05/08/2021 17:15	<a href="#">WG1666661</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Chrysene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Fluorene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
Pyrene	ND		0.00600	1	05/08/2021 13:05	<a href="#">WG1666660</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:05	<a href="#">WG1666660</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:05	<a href="#">WG1666660</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:05	<a href="#">WG1666660</a>
(S) p-Terphenyl-d14	71.2		23.0-120		05/08/2021 13:05	<a href="#">WG1666660</a>
(S) Nitrobenzene-d5	56.8		14.0-149		05/08/2021 13:05	<a href="#">WG1666660</a>
(S) 2-Fluorobiphenyl	54.7		34.0-125		05/08/2021 13:05	<a href="#">WG1666660</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3653931-1 05/11/21 18:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1346831-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346831-03 05/11/21 18:38 • (DUP) R3653931-3 05/11/21 18:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653931-2 05/11/21 18:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.5	105	80.0-120	

L1346831-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-02 05/11/21 20:38 • (MS) R3653931-5 05/11/21 20:43 • (MSD) R3653931-6 05/11/21 20:48

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	16.9	16.6	84.3	82.9	1	75.0-125			1.71	20

L1346831-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346831-02 05/11/21 20:38 • (MS) R3653931-7 05/11/21 20:53

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	650	ND	581	89.3	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 09:10 • (DUP) R3652053-2 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.12	8.13	1	0.123		1

Sample Narrative:

OS: 8.12 at 21.3C

DUP: 8.13 at 21.3C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 09:10 • (DUP) R3652053-3 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.50	1	0.235		1

Sample Narrative:

OS: 8.52 at 21.4C

DUP: 8.5 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3652053-1 05/09/21 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 20.4C

L1346835-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-07 05/11/21 07:31 • (DUP) R3652802-2 05/11/21 07:31

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.97	8.98	1	0.111		1

Sample Narrative:

OS: 8.97 at 21.1C

DUP: 8.98 at 21.1C



L1349800-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1349800-10 05/11/21 07:31 • (DUP) R3652802-3 05/11/21 07:31

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.38	8.38	1	0.000		1

Sample Narrative:

OS: 8.38 at 21.2C

DUP: 8.38 at 21C

Laboratory Control Sample (LCS)

(LCS) R3652802-1 05/11/21 07:31

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 19.7C

Method Blank (MB)

(MB) R3652040-1 05/09/21 07:34

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 07:34 • (DUP) R3652040-3 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	246	245	1	0.448		20

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 07:34 • (DUP) R3652040-4 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	239	240	1	0.460		20

Laboratory Control Sample (LCS)

(LCS) R3652040-2 05/09/21 07:34

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	268	99.9	85.0-115	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652734-1 05/11/21 06:49

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1346835-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-07 05/11/21 06:49 • (DUP) R3652734-3 05/11/21 06:49

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	520	526	1	1.15		20

L1349800-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1349800-10 05/11/21 06:49 • (DUP) R3652734-4 05/11/21 06:49

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	493	500	1	1.41		20

Laboratory Control Sample (LCS)

(LCS) R3652734-2 05/11/21 06:49

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	272	101	85.0-115	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3651957-1 05/08/21 03:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3651957-2 05/08/21 03:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	102	102	80.0-120	
Cadmium	100	97.5	97.5	80.0-120	
Copper	100	96.9	96.9	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	98.5	98.5	80.0-120	
Silver	20.0	18.0	89.8	80.0-120	
Zinc	100	96.5	96.5	80.0-120	

L1346831-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-01 05/08/21 03:22 • (MS) R3651957-5 05/08/21 03:30 • (MSD) R3651957-6 05/08/21 03:34

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	287	395	373	108	85.1	1	75.0-125			5.96	20
Cadmium	100	ND	97.9	99.9	97.5	99.5	1	75.0-125			1.98	20
Copper	100	19.3	115	120	96.0	100	1	75.0-125			3.66	20
Lead	100	11.2	114	118	102	107	1	75.0-125			3.75	20
Nickel	100	19.1	123	128	104	109	1	75.0-125			3.83	20
Selenium	100	ND	99.5	102	98.0	100	1	75.0-125			2.45	20
Silver	20.0	ND	18.6	19.0	92.8	94.8	1	75.0-125			2.15	20
Zinc	100	57.9	141	148	83.1	90.5	1	75.0-125			5.10	20

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Method Blank (MB)

(MB) R3652250-1 05/08/21 20:49

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652250-2 05/08/21 20:51 • (LCSD) R3652250-3 05/08/21 20:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.957	0.967	95.7	96.7	80.0-120			0.953	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3651837-1 05/07/21 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3651837-2 05/07/21 15:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.6	95.6	80.0-120	

L1346831-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346831-01 05/07/21 15:45 • (MS) R3651837-5 05/07/21 15:55 • (MSD) R3651837-6 05/07/21 15:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	12.0	105	110	93.1	98.3	5	75.0-125			4.80	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652584-2 05/08/21 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0530	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652584-1 05/08/21 20:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.61	120	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			117	77.0-120	

L1346698-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346698-07 05/08/21 21:37 • (MS) R3652584-3 05/09/21 05:34 • (MSD) R3652584-4 05/09/21 05:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	1.65	2.01	28.6	35.1	1	10.0-151			19.7	28
(S) a,a,a-Trifluorotoluene(FID)					98.3	101		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652452-2 05/10/21 02:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652452-1 05/10/21 02:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.70	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652678-2 05/10/21 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652678-1 05/10/21 16:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652681-2 05/10/21 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652681-1 05/10/21 16:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652151-3 05/05/21 13:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.2			75.0-131
(S) 4-Bromofluorobenzene	95.9			67.0-138
(S) 1,2-Dichloroethane-d4	80.3			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652151-1 05/05/21 11:59 • (LCSD) R3652151-2 05/05/21 12:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.128	0.117	102	93.6	70.0-123			8.98	20
Ethylbenzene	0.125	0.120	0.112	96.0	89.6	74.0-126			6.90	20
Naphthalene	0.125	0.118	0.115	94.4	92.0	59.0-130			2.58	20
Toluene	0.125	0.120	0.111	96.0	88.8	75.0-121			7.79	20
1,2,4-Trimethylbenzene	0.125	0.129	0.118	103	94.4	70.0-126			8.91	20
1,3,5-Trimethylbenzene	0.125	0.117	0.110	93.6	88.0	73.0-127			6.17	20
Xylenes, Total	0.375	0.387	0.352	103	93.9	72.0-127			9.47	20
(S) Toluene-d8				97.0	98.2	75.0-131				
(S) 4-Bromofluorobenzene				96.6	97.9	67.0-138				
(S) 1,2-Dichloroethane-d4				102	101	70.0-130				

L1346835-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346835-02 05/05/21 21:15 • (MS) R3652151-4 05/05/21 22:31 • (MSD) R3652151-5 05/05/21 22:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	1.00	0.281	1.02	1.01	73.9	72.9	8	10.0-149			0.985	37
Ethylbenzene	1.00	0.887	2.18	2.16	129	127	8	10.0-160			0.922	38
Naphthalene	1.00	ND	0.854	0.945	85.4	94.5	8	10.0-160			10.1	36
Toluene	1.00	10.2	18.8	19.3	860	910	8	10.0-156	V	V	2.62	38
1,2,4-Trimethylbenzene	1.00	0.154	0.850	0.861	69.6	70.7	8	10.0-160			1.29	36
1,3,5-Trimethylbenzene	1.00	0.243	0.968	0.993	72.5	75.0	8	10.0-160			2.55	38
Xylenes, Total	3.00	12.2	23.6	24.4	380	407	8	10.0-160	V	V	3.33	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346835-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346835-02 05/05/21 21:15 • (MS) R3652151-4 05/05/21 22:31 • (MSD) R3652151-5 05/05/21 22:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					98.3	102		75.0-131				
(S) 4-Bromofluorobenzene					97.9	97.5		67.0-138				
(S) 1,2-Dichloroethane-d4					100	97.7		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3652337-2 05/09/21 20:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	112			67.0-138
(S) 1,2-Dichloroethane-d4	104			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3652337-1 05/09/21 19:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.123	98.4	70.0-123	
Ethylbenzene	0.125	0.133	106	74.0-126	
Naphthalene	0.125	0.0943	75.4	59.0-130	
Toluene	0.125	0.131	105	75.0-121	
1,2,4-Trimethylbenzene	0.125	0.107	85.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.113	90.4	73.0-127	
Xylenes, Total	0.375	0.387	103	72.0-127	
(S) Toluene-d8			107	75.0-131	
(S) 4-Bromofluorobenzene			115	67.0-138	
(S) 1,2-Dichloroethane-d4			119	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652132-1 05/08/21 14:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	1.47	⬇	0.274	4.00
(S) o-Terphenyl	79.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3652132-2 05/08/21 14:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.2	92.4	50.0-150	
(S) o-Terphenyl			65.5	18.0-148	

L1346859-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346859-02 05/08/21 14:51 • (MS) R3652132-3 05/08/21 15:04 • (MSD) R3652132-4 05/08/21 15:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.8	ND	44.3	44.4	92.7	93.3	1	50.0-150			0.225	20
(S) o-Terphenyl					50.5	53.8		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652438-2 05/08/21 11:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	65.2			14.0-149
(S) 2-Fluorobiphenyl	79.1			34.0-125
(S) p-Terphenyl-d14	104			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3652438-1 05/08/21 11:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0698	87.3	50.0-126	
Acenaphthene	0.0800	0.0681	85.1	50.0-120	
Acenaphthylene	0.0800	0.0691	86.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0685	85.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0649	81.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0749	93.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0732	91.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0734	91.8	49.0-125	
Chrysene	0.0800	0.0728	91.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0716	89.5	47.0-125	
Fluoranthene	0.0800	0.0717	89.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3652438-1 05/08/21 11:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0718	89.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0695	86.9	46.0-125	
Naphthalene	0.0800	0.0643	80.4	50.0-120	
Phenanthrene	0.0800	0.0740	92.5	47.0-120	
Pyrene	0.0800	0.0750	93.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0660	82.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0636	79.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0686	85.8	50.0-120	
(S) Nitrobenzene-d5			81.4	14.0-149	
(S) 2-Fluorobiphenyl			78.2	34.0-125	
(S) p-Terphenyl-d14			93.0	23.0-120	

L1346847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346847-01 05/08/21 16:50 • (MS) R3652438-3 05/08/21 17:07 • (MSD) R3652438-4 05/08/21 17:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0776	0.130	0.157	0.142	34.8	15.5	1	10.0-145			10.0	30
Acenaphthene	0.0776	0.0388	0.0975	0.0838	75.6	58.0	1	14.0-127			15.1	27
Acenaphthylene	0.0776	0.0690	0.114	0.114	58.0	58.0	1	21.0-124			0.000	25
Benzo(a)anthracene	0.0776	0.598	0.493	0.400	0.000	0.000	1	10.0-139	V	V	20.8	30
Benzo(a)pyrene	0.0776	0.630	0.514	0.434	0.000	0.000	1	10.0-141	V	V	16.9	31
Benzo(b)fluoranthene	0.0776	0.950	0.731	0.682	0.000	0.000	1	10.0-140	V	V	6.94	36
Benzo(g,h,i)perylene	0.0776	0.440	0.387	0.344	0.000	0.000	1	10.0-140	V	V	11.8	33
Benzo(k)fluoranthene	0.0776	0.345	0.301	0.278	0.000	0.000	1	10.0-137	V	V	7.94	31
Chrysene	0.0776	0.707	0.586	0.491	0.000	0.000	1	10.0-145	V	V	17.6	30
Dibenz(a,h)anthracene	0.0776	0.105	0.139	0.131	43.8	33.5	1	10.0-132			5.93	31
Fluoranthene	0.0776	1.15	0.907	0.643	0.000	0.000	1	10.0-153	V	J3 V	34.1	33
Fluorene	0.0776	0.0373	0.0991	0.0921	79.6	70.6	1	11.0-130			7.32	29
Indeno(1,2,3-cd)pyrene	0.0776	0.462	0.400	0.350	0.000	0.000	1	10.0-137	V	V	13.3	32
Naphthalene	0.0776	0.0312	0.0866	0.0852	71.4	69.6	1	10.0-135			1.63	27
Phenanthrene	0.0776	0.545	0.494	0.335	0.000	0.000	1	10.0-144	V	J3 V	38.4	31
Pyrene	0.0776	1.04	0.859	0.607	0.000	0.000	1	10.0-148	V	V	34.4	35
1-Methylnaphthalene	0.0776	ND	0.0785	0.0801	75.9	78.0	1	10.0-142			2.02	28
2-Methylnaphthalene	0.0776	0.0214	0.0787	0.0787	73.8	73.8	1	10.0-137			0.000	28
2-Chloronaphthalene	0.0776	ND	0.0640	0.0649	82.5	83.6	1	29.0-120			1.40	24
(S) Nitrobenzene-d5					75.5	80.8		14.0-149				
(S) 2-Fluorobiphenyl					74.8	78.2		34.0-125				
(S) p-Terphenyl-d14					89.1	91.1		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

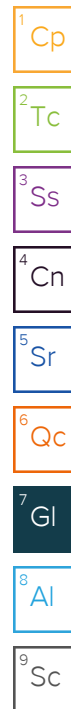
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.







May 11, 2021

## Entrada Consulting Group

Sample Delivery Group: L1346868  
Samples Received: 05/01/2021  
Project Number: 621-054 BAKER CANYON  
Description: Baker Canyon

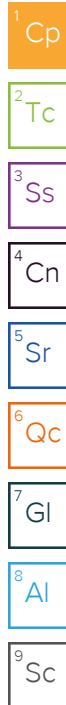
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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# SAMPLE SUMMARY

## SB1-BKGND-1 L1346868-01 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 08:30	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:35	05/08/21 20:35	EL	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:21	KMG	Mt. Juliet, TN

## SB1-BKGND-1 L1346868-02 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 08:30	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:24	KMG	Mt. Juliet, TN

## SB1-BKGND-1 L1346868-03 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 08:30	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:27	KMG	Mt. Juliet, TN

## SB1-BKGND-1 L1346868-04 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 08:30	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:36	KMG	Mt. Juliet, TN

## SB1-BKGND-2 L1346868-05 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 09:15	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:38	05/08/21 20:38	EL	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:39	KMG	Mt. Juliet, TN

## SB1-BKGND-2 L1346868-06 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 09:15	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:43	KMG	Mt. Juliet, TN

## SB1-BKGND-2 L1346868-07 Solid

				Collected by R. Johnson	Collected date/time 04/29/21 09:15	Received date/time 05/01/21 10:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:46	KMG	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# SAMPLE SUMMARY

## SB1-BKGND-2 L1346868-08 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 09:15

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664544	1	05/06/21 06:43	05/07/21 20:49	KMG	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## SB1-BKGND-3 L1346868-09 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 10:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663243	1	05/08/21 20:40	05/08/21 20:40	EL	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1664540	1	05/06/21 06:46	05/07/21 18:03	KMG	Mt. Juliet, TN

## SB1-BKGND-3 L1346868-10 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 10:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664540	1	05/06/21 06:46	05/07/21 19:10	KMG	Mt. Juliet, TN

## SB1-BKGND-3 L1346868-11 Solid

Collected by  
R. Johnson

Collected date/time  
04/29/21 10:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664540	1	05/06/21 06:46	05/07/21 19:13	KMG	Mt. Juliet, TN

## SB1-BKGND-3 L1346868-12 Solid

Collected by  
R. Johnson

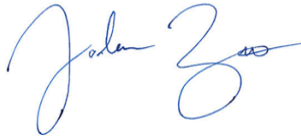
Collected date/time  
04/29/21 10:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1664540	1	05/06/21 06:46	05/07/21 19:16	KMG	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.38		1	05/08/2021 20:35	WG1663243

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346868-01 WG1666894: 8.46 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
	401		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Arsenic	12.4		2.00	1	05/07/2021 20:21	<a href="#">WG1664544</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	<u>Qualifier</u>	RDL mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	12.9		2.00	1	05/07/2021 20:24	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.5		2.00	1	05/07/2021 20:27	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	16.4		2.00	1	05/07/2021 20:36	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.47		1	05/08/2021 20:38	WG1663243

<sup>1</sup> Cp<sup>2</sup> Tc

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.60	<u>T8</u>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

<sup>3</sup> Ss<sup>4</sup> Cn

## Sample Narrative:

L1346868-05 WG1666894: 8.6 at 21C

<sup>5</sup> Sr

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	645		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

<sup>6</sup> Qc<sup>7</sup> Gl

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Arsenic	6.55		2.00	1	05/07/2021 20:39	<a href="#">WG1664544</a>

<sup>8</sup> Al<sup>9</sup> Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	<u>Qualifier</u>	RDL mg/kg	Dilution	Analysis date / time	<u>Batch</u>
Arsenic	6.25		2.00	1	05/07/2021 20:43	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Arsenic	9.28		2.00	1	05/07/2021 20:46	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.25		2.00	1	05/07/2021 20:49	<a href="#">WG1664544</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.31		1	05/08/2021 20:40	WG1663243

<sup>1</sup> Cp<sup>2</sup> Tc

## Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.58	<u>T8</u>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

<sup>3</sup> Ss<sup>4</sup> Cn

## Sample Narrative:

L1346868-09 WG1666894: 8.58 at 21.1C

<sup>5</sup> Sr

## Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
	819		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

<sup>6</sup> Qc<sup>7</sup> Gl

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg			
Arsenic	7.72		2.00	1	05/07/2021 18:03	<a href="#">WG1664540</a>

<sup>8</sup> Al<sup>9</sup> Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.4		2.00	1	05/07/2021 19:10	<a href="#">WG1664540</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	13.4		2.00	1	05/07/2021 19:13	<a href="#">WG1664540</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.62		2.00	1	05/07/2021 19:16	<a href="#">WG1664540</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 09:10 • (DUP) R3652053-2 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.12	8.13	1	0.123		1

Sample Narrative:

OS: 8.12 at 21.3C

DUP: 8.13 at 21.3C



L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 09:10 • (DUP) R3652053-3 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.50	1	0.235		1

Sample Narrative:

OS: 8.52 at 21.4C

DUP: 8.5 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3652053-1 05/09/21 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 20.4C

Method Blank (MB)

(MB) R3652040-1 05/09/21 07:34

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 07:34 • (DUP) R3652040-3 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	246	245	1	0.448		20

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 07:34 • (DUP) R3652040-4 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	239	240	1	0.460		20

Laboratory Control Sample (LCS)

(LCS) R3652040-2 05/09/21 07:34

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	268	99.9	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3651942-1 05/07/21 17:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.518	2.00

Laboratory Control Sample (LCS)

(LCS) R3651942-2 05/07/21 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	95.8	95.8	80.0-120	

L1346868-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346868-09 05/07/21 18:03 • (MS) R3651942-5 05/07/21 18:12 • (MSD) R3651942-6 05/07/21 18:15

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	7.72	99.2	99.1	91.5	91.4	1	75.0-125			0.0670	20

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3651900-1 05/07/21 19:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.518	2.00

Laboratory Control Sample (LCS)

(LCS) R3651900-2 05/07/21 20:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	93.0	93.0	80.0-120	

L1346891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346891-01 05/07/21 20:05 • (MS) R3651900-5 05/07/21 20:14 • (MSD) R3651900-6 05/07/21 20:17

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	4.58	104	87.9	99.7	83.3	1	75.0-125			17.0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

T8	Sample(s) received past/too close to holding time expiration.
----	---

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

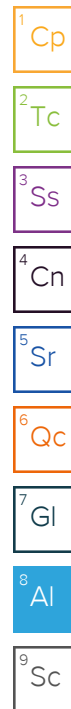
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group						Billing Information:						Analysis / Container / Preservative						Chain of Custody																																															
240 Mesa Avenue Grand Junction, CO 81501						Stuart Hall 240 Mesa Ave. Grand Junction, CO 81501						Pres Chk						Page ____ of ____																																															
Report to: Stuart Hall						Email To: shall@entradainc.com;						12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859						Pace Analytical® National Center for Testing & Innovation																																															
Project Description: Baker Canyon						City/State Collected: DeBogus CO						Please Circle: PT MT CT ET						SDG # L1346868 C095																																															
Phone: 970-640-0568						Client Project # 621-054 Baker Canyon						Lab Project # ENTCONGJCO-915						Acctnum: ENTCONGJCO																																															
Collected by (print): R. Johnson						Site/Facility ID #						P.O. #						Template: T180603																																															
Collected by (signature): [Signature]						Rush? (Lab MUST Be Notified) Same Day Five Day Next Day 5 Day (Rad Only) Two Day 10 Day (Rad Only) Three Day						Quote # Date Results Needed						Prelogin: P822819 PM: 824 - Chris Ward																																															
Immediately Packed on Ice N Y						No. of Cntrs						Arsonic						PB:																																															
Sample ID						Comp/Grab						Matrix *						Depth						Date						Time						Remarks						Sample # (lab only)																							
SB1-BK6ND-1						625						SS						85-105						4/29/21						0830						1						-01/02/03/04																							
SB1-BK6ND-2						1						1						23.5-25.5						1						0915						2						05/06/07/08																							
SB1-BK6ND-3						1						1						44.5-50.5						1						1030						2						09/10/11/12																							
* Matrix:						Remarks: Please analyze Arsonic 4 times per sample.						pH						Temp						Sample Receipt Checklist																																									
SS - Soil AIR - Air F - Filter						GW - Groundwater B - Bioassay						WW - WasteWater						DW - Drinking Water						OT - Other						COC Seal Present/Intact: Y N						COC Signed/Accurate: Y N						Bottles arrive intact: Y N						Correct bottles used: Y N						Sufficient volume sent: Y N						If Applicable					
Samples returned via:						Tracking #						Flow						Other						VOA Zero Headspace: Y N						Preservation Correct/Checked: Y N						RAD Screen <0.5 mR/hr: Y N																													
Relinquished by: (Signature)						Date:						Time:						Received by: (Signature)						Trip Blank Received: Yes/No						HCL/MeOH						TBR						Bottles Received: 5						If preservation required by Login: Date/Time																	
Relinquished by: (Signature)						Date:						Time:						Received by: (Signature)						Temp: 3.7-1=3.6						Date:						Time:						Hold:						Condition: NCF 100																	
Relinquished by: (Signature)						Date:						Time:						Received by: (Signature)						Date:						Time:						Hold:						Condition:																							



**Entrada Consulting Group**

Sample Delivery Group: L1346885  
Samples Received: 05/01/2021  
Project Number: 021-054  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

## SB4-SS1 L1346885-01 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 07:55

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:31	05/07/21 19:31	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 13:31	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:14	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:35	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666997	25	05/04/21 19:32	05/10/21 05:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	8	05/04/21 19:32	05/06/21 06:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 17:04	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 12:21	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## SB4-SS2 L1346885-02 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 08:10

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:34	05/07/21 19:34	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 13:46	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:17	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:38	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 02:23	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 01:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/09/21 21:00	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 12:41	AAT	Mt. Juliet, TN

## SB4-SS3 L1346885-03 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 08:20

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:36	05/07/21 19:36	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 13:51	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:20	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:41	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:11	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 02:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 01:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/09/21 20:19	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 13:01	AAT	Mt. Juliet, TN

## SB4-SS4 L1346885-04 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 08:40

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:39	05/07/21 19:39	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 13:57	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:29	EL	Mt. Juliet, TN

# SAMPLE SUMMARY

## SB4-SS4 L1346885-04 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 08:40

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:43	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:21	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 03:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 01:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/09/21 19:25	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 13:20	AAT	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## SB4-SS5 L1346885-05 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 08:50

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:42	05/07/21 19:42	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:02	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:32	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:46	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:24	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 03:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 02:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/09/21 18:17	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 13:40	AAT	Mt. Juliet, TN

## SB4-SS6 L1346885-06 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 09:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:44	05/07/21 19:44	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:07	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:35	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:49	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 03:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 02:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 18:12	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 11:01	AAT	Mt. Juliet, TN

## SB4-SS7 L1346885-07 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 09:15

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:47	05/07/21 19:47	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:12	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 15:59	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:52	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 18:49	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 19:32	05/09/21 04:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 19:32	05/06/21 02:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 18:25	CAG	Mt. Juliet, TN

# SAMPLE SUMMARY

SB4-SS7 L1346885-07 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 09:15

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 14:20	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc


<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.93		1	05/07/2021 19:31	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 13:31	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-01 WG1666894: 8.35 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	358		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	262		0.500	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Copper	16.9		2.00	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Lead	8.53		0.500	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Nickel	16.9		2.00	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:14	<a href="#">WG1665508</a>
Zinc	52.0		5.00	1	05/08/2021 16:14	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.273		0.200	1	05/07/2021 20:35	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.56		1.00	5	05/08/2021 19:05	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	59.1		2.50	25	05/10/2021 05:49	<a href="#">WG1666997</a>
(S) a,a,a-Trifluorotoluene(FID)	97.2		77.0-120		05/10/2021 05:49	<a href="#">WG1666997</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0293		0.00800	8	05/06/2021 06:25	<a href="#">WG1665053</a>
Toluene	1.04		0.0400	8	05/06/2021 06:25	<a href="#">WG1665053</a>
Ethylbenzene	0.0255		0.0200	8	05/06/2021 06:25	<a href="#">WG1665053</a>
Xylenes, Total	0.111		0.0520	8	05/06/2021 06:25	<a href="#">WG1665053</a>
Naphthalene	ND		0.100	8	05/06/2021 06:25	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.0400	8	05/06/2021 06:25	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.0400	8	05/06/2021 06:25	<a href="#">WG1665053</a>
(S) Toluene-d8	105		75.0-131		05/06/2021 06:25	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	95.4		67.0-138		05/06/2021 06:25	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	96.8		70.0-130		05/06/2021 06:25	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.8		4.00	1	05/08/2021 17:04	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	103		4.00	1	05/08/2021 17:04	<a href="#">WG1666662</a>
(S) o-Terphenyl	71.1		18.0-148		05/08/2021 17:04	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 12:21	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:21	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:21	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 12:21	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	69.3		23.0-120		05/08/2021 12:21	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	45.7		14.0-149		05/08/2021 12:21	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	57.1		34.0-125		05/08/2021 12:21	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.64		1	05/07/2021 19:34	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 13:46	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.58	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-02 WG1666894: 8.58 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	282		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	182		0.500	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Copper	18.7		2.00	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Lead	10.8		0.500	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Nickel	17.3		2.00	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:17	<a href="#">WG1665508</a>
Zinc	55.4		5.00	1	05/08/2021 16:17	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

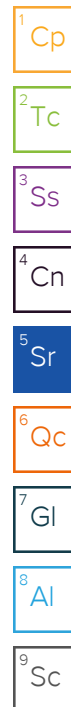
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.308		0.200	1	05/07/2021 20:38	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.58		1.00	5	05/08/2021 19:08	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.17		0.100	1	05/09/2021 02:23	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	95.1		77.0-120		05/09/2021 02:23	<a href="#">WG1666995</a>





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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00540		0.00100	1	05/06/2021 01:03	<a href="#">WG1665053</a>
Toluene	0.00585		0.00500	1	05/06/2021 01:03	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 01:03	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 01:03	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 01:03	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:03	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:03	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 01:03	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	95.4		67.0-138		05/06/2021 01:03	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	83.5		70.0-130		05/06/2021 01:03	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	29.7		4.00	1	05/09/2021 21:00	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	114		4.00	1	05/09/2021 21:00	<a href="#">WG1666662</a>
(S) o-Terphenyl	76.7		18.0-148		05/09/2021 21:00	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 12:41	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:41	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 12:41	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 12:41	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	65.0		23.0-120		05/08/2021 12:41	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	45.2		14.0-149		05/08/2021 12:41	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	53.2		34.0-125		05/08/2021 12:41	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.69		1	05/07/2021 19:36	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 13:51	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.52	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-03 WG1666894: 8.52 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	239		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	132		0.500	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Copper	16.5		2.00	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Lead	9.61		0.500	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Nickel	15.2		2.00	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:20	<a href="#">WG1665508</a>
Zinc	52.9		5.00	1	05/08/2021 16:20	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

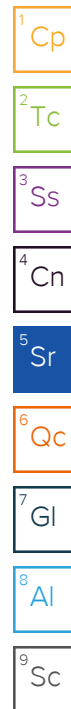
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.313		0.200	1	05/07/2021 20:41	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.62		1.00	5	05/08/2021 19:11	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.89		0.100	1	05/09/2021 02:47	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	91.8		77.0-120		05/09/2021 02:47	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00220		0.00100	1	05/06/2021 01:22	<a href="#">WG1665053</a>
Toluene	ND		0.00500	1	05/06/2021 01:22	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 01:22	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 01:22	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 01:22	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:22	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:22	<a href="#">WG1665053</a>
(S) Toluene-d8	102		75.0-131		05/06/2021 01:22	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	94.4		67.0-138		05/06/2021 01:22	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	85.0		70.0-130		05/06/2021 01:22	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.9		4.00	1	05/09/2021 20:19	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	59.4		4.00	1	05/09/2021 20:19	<a href="#">WG1666662</a>
(S) o-Terphenyl	72.9		18.0-148		05/09/2021 20:19	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 13:01	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:01	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:01	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:01	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	55.7		23.0-120		05/08/2021 13:01	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	38.1		14.0-149		05/08/2021 13:01	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	46.0		34.0-125		05/08/2021 13:01	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.39		1	05/07/2021 19:39	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 13:57	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.30	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-04 WG1666894: 8.3 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	449		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	191		0.500	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Copper	19.1		2.00	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Lead	9.61		0.500	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Nickel	14.2		2.00	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:29	<a href="#">WG1665508</a>
Zinc	50.6		5.00	1	05/08/2021 16:29	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

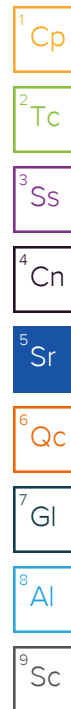
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.251		0.200	1	05/07/2021 20:43	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.98		1.00	5	05/08/2021 19:21	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.683		0.100	1	05/09/2021 03:11	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8		77.0-120		05/09/2021 03:11	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00411		0.00100	1	05/06/2021 01:41	<a href="#">WG1665053</a>
Toluene	0.0155		0.00500	1	05/06/2021 01:41	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 01:41	<a href="#">WG1665053</a>
Xylenes, Total	0.0197		0.00650	1	05/06/2021 01:41	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 01:41	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:41	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 01:41	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 01:41	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	95.0		67.0-138		05/06/2021 01:41	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	85.2		70.0-130		05/06/2021 01:41	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.04		4.00	1	05/09/2021 19:25	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	28.6		4.00	1	05/09/2021 19:25	<a href="#">WG1666662</a>
(S) o-Terphenyl	70.9		18.0-148		05/09/2021 19:25	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 13:20	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:20	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:20	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:20	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	69.4		23.0-120		05/08/2021 13:20	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	52.3		14.0-149		05/08/2021 13:20	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	59.9		34.0-125		05/08/2021 13:20	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.64		1	05/07/2021 19:42	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:02	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.88	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-05 WG1666894: 8.88 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	495		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	139		0.500	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Copper	19.2		2.00	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Lead	10.1		0.500	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Nickel	17.9		2.00	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:32	<a href="#">WG1665508</a>
Zinc	59.8		5.00	1	05/08/2021 16:32	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

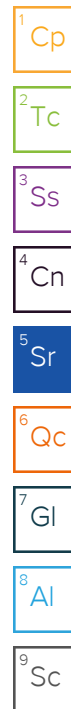
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.390		0.200	1	05/07/2021 20:46	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.69		1.00	5	05/08/2021 19:24	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.697		0.100	1	05/09/2021 03:35	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8		77.0-120		05/09/2021 03:35	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/06/2021 02:00	<a href="#">WG1665053</a>
Toluene	ND		0.00500	1	05/06/2021 02:00	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 02:00	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 02:00	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 02:00	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:00	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:00	<a href="#">WG1665053</a>
(S) Toluene-d8	103		75.0-131		05/06/2021 02:00	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	90.2		67.0-138		05/06/2021 02:00	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	84.1		70.0-130		05/06/2021 02:00	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/09/2021 18:17	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	4.66		4.00	1	05/09/2021 18:17	<a href="#">WG1666662</a>
(S) o-Terphenyl	80.8		18.0-148		05/09/2021 18:17	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 13:40	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:40	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 13:40	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 13:40	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	83.4		23.0-120		05/08/2021 13:40	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	56.1		14.0-149		05/08/2021 13:40	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	68.5		34.0-125		05/08/2021 13:40	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.64		1	05/07/2021 19:44	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:07	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.97	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-06 WG1666894: 8.97 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	459		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	161		0.500	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Copper	17.7		2.00	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Lead	9.66		0.500	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Nickel	16.6		2.00	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:35	<a href="#">WG1665508</a>
Zinc	55.4		5.00	1	05/08/2021 16:35	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

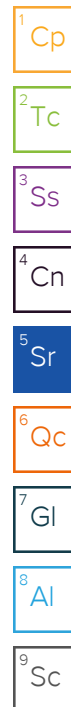
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.359		0.200	1	05/07/2021 20:49	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.14		1.00	5	05/08/2021 19:28	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.573		0.100	1	05/09/2021 03:58	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	99.9		77.0-120		05/09/2021 03:58	<a href="#">WG1666995</a>





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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/06/2021 02:19	<a href="#">WG1665053</a>
Toluene	ND		0.00500	1	05/06/2021 02:19	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 02:19	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 02:19	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 02:19	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:19	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:19	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 02:19	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	90.4		67.0-138		05/06/2021 02:19	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	84.4		70.0-130		05/06/2021 02:19	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 18:12	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	8.41		4.00	1	05/08/2021 18:12	<a href="#">WG1666662</a>
(S) o-Terphenyl	62.1		18.0-148		05/08/2021 18:12	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Naphthalene	ND	J3	0.0200	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 11:01	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 11:01	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND	J3	0.0200	1	05/08/2021 11:01	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 11:01	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	72.5		23.0-120		05/08/2021 11:01	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	48.7		14.0-149		05/08/2021 11:01	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	61.4		34.0-125		05/08/2021 11:01	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.36		1	05/07/2021 19:47	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:12	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.84	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346885-07 WG1666894: 8.84 at 21.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	686		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	202	<a href="#">J6</a>	0.500	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Copper	17.8		2.00	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Lead	10.5		0.500	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Nickel	16.7		2.00	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Selenium	2.02		2.00	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 15:59	<a href="#">WG1665508</a>
Zinc	58.7		5.00	1	05/08/2021 15:59	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

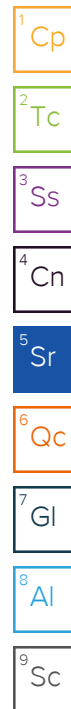
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.410		0.200	1	05/07/2021 20:52	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.75	<a href="#">O1</a>	1.00	5	05/08/2021 18:49	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.549		0.100	1	05/09/2021 04:22	<a href="#">WG1666995</a>
(S) a,a,a-Trifluorotoluene(FID)	99.3		77.0-120		05/09/2021 04:22	<a href="#">WG1666995</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/06/2021 02:38	<a href="#">WG1665053</a>
Toluene	ND		0.00500	1	05/06/2021 02:38	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 02:38	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 02:38	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 02:38	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:38	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:38	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 02:38	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	93.2		67.0-138		05/06/2021 02:38	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	86.8		70.0-130		05/06/2021 02:38	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.11		4.00	1	05/08/2021 18:25	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	25.8		4.00	1	05/08/2021 18:25	<a href="#">WG1666662</a>
(S) o-Terphenyl	75.1		18.0-148		05/08/2021 18:25	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 14:20	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:20	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:20	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:20	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	70.8		23.0-120		05/08/2021 14:20	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	50.1		14.0-149		05/08/2021 14:20	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	59.0		34.0-125		05/08/2021 14:20	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3653932-1 05/12/21 12:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1348314-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1348314-03 05/12/21 13:10 • (DUP) R3653932-3 05/12/21 13:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	22.9	P1	20

L1346887-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1346887-02 05/12/21 14:23 • (DUP) R3653932-4 05/12/21 14:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653932-2 05/12/21 12:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.95	99.5	80.0-120	

L1346887-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346887-03 05/12/21 15:04 • (MS) R3653932-5 05/12/21 15:09 • (MSD) R3653932-6 05/12/21 15:21

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	12.6	12.8	63.0	64.1	1	75.0-125	J6	J6	1.72	20

L1346887-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346887-03 05/12/21 15:04 • (MS) R3653932-7 05/12/21 15:28

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	665	ND	565	85.0	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 09:10 • (DUP) R3652053-2 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.12	8.13	1	0.123		1

Sample Narrative:

OS: 8.12 at 21.3C

DUP: 8.13 at 21.3C

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 09:10 • (DUP) R3652053-3 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.50	1	0.235		1

Sample Narrative:

OS: 8.52 at 21.4C

DUP: 8.5 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3652053-1 05/09/21 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 20.4C



Method Blank (MB)

(MB) R3652040-1 05/09/21 07:34

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 07:34 • (DUP) R3652040-3 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	246	245	1	0.448		20

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 07:34 • (DUP) R3652040-4 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	239	240	1	0.460		20

Laboratory Control Sample (LCS)

(LCS) R3652040-2 05/09/21 07:34

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	268	99.9	85.0-115	

Method Blank (MB)

(MB) R3652245-1 05/08/21 15:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3652245-2 05/08/21 15:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	97.5	97.5	80.0-120	
Cadmium	100	93.9	93.9	80.0-120	
Copper	100	95.9	95.9	80.0-120	
Lead	100	95.6	95.6	80.0-120	
Nickel	100	96.9	96.9	80.0-120	
Selenium	100	95.4	95.4	80.0-120	
Silver	20.0	17.3	86.4	80.0-120	
Zinc	100	94.5	94.5	80.0-120	

L1346885-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-07 05/08/21 15:59 • (MS) R3652245-5 05/08/21 16:08 • (MSD) R3652245-6 05/08/21 16:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	202	261	250	59.4	47.9	1	75.0-125	J6	J6	4.50	20
Cadmium	100	ND	90.1	88.1	89.6	87.6	1	75.0-125			2.24	20
Copper	100	17.8	108	106	90.0	88.3	1	75.0-125			1.56	20
Lead	100	10.5	104	102	93.9	91.6	1	75.0-125			2.20	20
Nickel	100	16.7	113	111	96.7	94.8	1	75.0-125			1.75	20
Selenium	100	2.02	91.6	89.4	89.6	87.4	1	75.0-125			2.49	20
Silver	20.0	ND	17.0	16.6	84.9	82.8	1	75.0-125			2.52	20
Zinc	100	58.7	138	137	79.6	77.9	1	75.0-125			1.22	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3652273-1 05/07/21 20:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652273-2 05/07/21 20:30 • (LCSD) R3652273-3 05/07/21 20:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.966	0.970	96.6	97.0	80.0-120			0.404	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3652016-1 05/08/21 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3652016-2 05/08/21 18:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	93.8	93.8	80.0-120	

L1346885-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-07 05/08/21 18:49 • (MS) R3652016-5 05/08/21 18:58 • (MSD) R3652016-6 05/08/21 19:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	7.75	92.3	89.5	84.5	81.7	5	75.0-125			3.11	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652584-2 05/08/21 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0530	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652584-1 05/08/21 20:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.61	120	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			117	77.0-120	

L1346698-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346698-07 05/08/21 21:37 • (MS) R3652584-3 05/09/21 05:34 • (MSD) R3652584-4 05/09/21 05:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	1.65	2.01	28.6	35.1	1	10.0-151			19.7	28
(S) a,a,a-Trifluorotoluene(FID)					98.3	101		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652452-2 05/10/21 02:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652452-1 05/10/21 02:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.70	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3652153-3 05/06/21 00:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	93.9			67.0-138
(S) 1,2-Dichloroethane-d4	85.1			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652153-1 05/05/21 23:28 • (LCSD) R3652153-2 05/05/21 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.117	0.113	93.6	90.4	70.0-123			3.48	20
Ethylbenzene	0.125	0.110	0.113	88.0	90.4	74.0-126			2.69	20
Naphthalene	0.125	0.117	0.120	93.6	96.0	59.0-130			2.53	20
Toluene	0.125	0.116	0.111	92.8	88.8	75.0-121			4.41	20
1,2,4-Trimethylbenzene	0.125	0.119	0.120	95.2	96.0	70.0-126			0.837	20
1,3,5-Trimethylbenzene	0.125	0.112	0.113	89.6	90.4	73.0-127			0.889	20
Xylenes, Total	0.375	0.340	0.332	90.7	88.5	72.0-127			2.38	20
(S) Toluene-d8				98.8	99.7	75.0-131				
(S) 4-Bromofluorobenzene				95.9	95.7	67.0-138				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

L1346898-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346898-06 05/06/21 06:06 • (MS) R3652153-4 05/06/21 07:22 • (MSD) R3652153-5 05/06/21 07:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.128	ND	0.0713	0.0411	72.0	41.5	1	10.0-149	J3		53.7	37
Ethylbenzene	0.128	ND	0.0739	0.0431	74.6	43.5	1	10.0-160	J3		52.6	38
Naphthalene	0.128	ND	0.0775	0.0665	78.3	67.2	1	10.0-160			15.3	36
Toluene	0.128	0.0224	0.0996	0.0650	78.0	43.0	1	10.0-156	J3		42.0	38
1,2,4-Trimethylbenzene	0.128	ND	0.0830	0.0500	83.8	50.5	1	10.0-160	J3		49.6	36
1,3,5-Trimethylbenzene	0.128	ND	0.0788	0.0462	79.6	46.7	1	10.0-160	J3		52.2	38
Xylenes, Total	0.385	ND	0.215	0.142	72.4	47.8	1	10.0-160	J3		40.9	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1346898-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346898-06 05/06/21 06:06 • (MS) R3652153-4 05/06/21 07:22 • (MSD) R3652153-5 05/06/21 07:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					105	104		75.0-131				
(S) 4-Bromofluorobenzene					93.5	94.5		67.0-138				
(S) 1,2-Dichloroethane-d4					86.3	89.3		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652086-1 05/08/21 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.287	⬇	0.274	4.00
(S) o-Terphenyl	66.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3652086-2 05/08/21 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.7	75.4	50.0-150	
(S) o-Terphenyl			69.5	18.0-148	

L1349408-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1349408-01 05/08/21 15:02 • (MS) R3652086-3 05/08/21 15:16 • (MSD) R3652086-4 05/08/21 15:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	ND	32.4	31.0	58.9	56.1	1	50.0-150			4.42	20
(S) o-Terphenyl					58.1	56.2		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652370-2 05/08/21 10:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	62.8			14.0-149
(S) 2-Fluorobiphenyl	77.3			34.0-125
(S) p-Terphenyl-d14	97.0			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3652370-1 05/08/21 10:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0626	78.3	50.0-126	
Acenaphthene	0.0800	0.0686	85.8	50.0-120	
Acenaphthylene	0.0800	0.0661	82.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0626	78.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0554	69.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0717	89.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0743	92.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0698	87.3	49.0-125	
Chrysene	0.0800	0.0734	91.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0787	98.4	47.0-125	
Fluoranthene	0.0800	0.0713	89.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3652370-1 05/08/21 10:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0741	92.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0659	82.4	46.0-125	
Naphthalene	0.0800	0.0658	82.3	50.0-120	
Phenanthrene	0.0800	0.0687	85.9	47.0-120	
Pyrene	0.0800	0.0695	86.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0741	92.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0667	83.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0665	83.1	50.0-120	
(S) Nitrobenzene-d5			64.6	14.0-149	
(S) 2-Fluorobiphenyl			80.5	34.0-125	
(S) p-Terphenyl-d14			91.6	23.0-120	

L1346885-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-06 05/08/21 11:01 • (MS) R3652370-3 05/08/21 11:21 • (MSD) R3652370-4 05/08/21 11:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0764	ND	0.0369	0.0365	48.3	48.0	1	10.0-145			1.09	30
Acenaphthene	0.0764	ND	0.0416	0.0396	54.5	52.1	1	14.0-127			4.93	27
Acenaphthylene	0.0764	ND	0.0374	0.0376	49.0	49.5	1	21.0-124			0.533	25
Benzo(a)anthracene	0.0764	ND	0.0391	0.0388	51.2	51.1	1	10.0-139			0.770	30
Benzo(a)pyrene	0.0764	ND	0.0445	0.0437	58.2	57.5	1	10.0-141			1.81	31
Benzo(b)fluoranthene	0.0764	ND	0.0444	0.0441	58.1	58.0	1	10.0-140			0.678	36
Benzo(g,h,i)perylene	0.0764	ND	0.0488	0.0495	63.9	65.1	1	10.0-140			1.42	33
Benzo(k)fluoranthene	0.0764	ND	0.0497	0.0480	65.1	63.2	1	10.0-137			3.48	31
Chrysene	0.0764	ND	0.0517	0.0504	67.7	66.3	1	10.0-145			2.55	30
Dibenz(a,h)anthracene	0.0764	ND	0.0502	0.0544	65.7	71.6	1	10.0-132			8.03	31
Fluoranthene	0.0764	ND	0.0411	0.0426	53.8	56.1	1	10.0-153			3.58	33
Fluorene	0.0764	ND	0.0438	0.0420	57.3	55.3	1	11.0-130			4.20	29
Indeno(1,2,3-cd)pyrene	0.0764	ND	0.0432	0.0424	56.5	55.8	1	10.0-137			1.87	32
Naphthalene	0.0764	ND	0.101	0.0421	132	55.4	1	10.0-135	J3		82.3	27
Phenanthrene	0.0764	ND	0.0414	0.0409	54.2	53.8	1	10.0-144			1.22	31
Pyrene	0.0764	ND	0.0427	0.0430	55.9	56.6	1	10.0-148			0.700	35
1-Methylnaphthalene	0.0764	ND	0.0542	0.0451	70.9	59.3	1	10.0-142			18.3	28
2-Methylnaphthalene	0.0764	ND	0.0613	0.0421	80.2	55.4	1	10.0-137	J3		37.1	28
2-Chloronaphthalene	0.0764	ND	0.0394	0.0384	51.6	50.5	1	29.0-120			2.57	24
(S) Nitrobenzene-d5					57.9	51.9		14.0-149				
(S) 2-Fluorobiphenyl					71.9	64.9		34.0-125				
(S) p-Terphenyl-d14					80.4	74.2		23.0-120				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

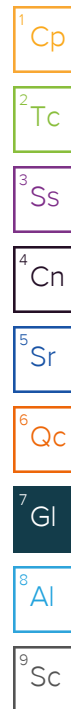
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group

240 Mesa Avenue

Grand Junction, CO 81501

Billing Information:

Stuart Hall

240 Mesa Ave.

Grand Junction, CO 81501

Report to:

Stuart Hall

Project Description:

Baker Canyon Spill

City/State

Collected: DeBeque CO

Phone: 970-640-0568

Client Project #

021-054

Collected by (print):

R. Johnson

Collected by (signature):

Immediately

Packed on Ice N Y

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

No. of Cntrs

SB4-SS1

Grab

SS

8-10'

4/30/21

0755

2

SB4-SS2

15-17'

0810

2

SB4-SS3

20-22'

0820

2

SB4-SS4

25-27'

0840

2

SB4-SS5

30-32'

0850

2

SB4-SS6

35-37'

0900

2

SB4-SS7

40-42'

0915

2

Pres Chk

Analysis / Container / Preservative

Table915 GRO/DRO/ORO 4ozClr-NoPres

Table915 Metals 4ozClr-NoPres

Table915 PAHs 4ozClr-NoPres

Table915 VOCs 4ozClr-NoPres

Table915 pH SPCONSAR 4ozClr-NoPres

Chain of Custody

Page 1 of 1

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859

QR Code

SDG #

61346885

Table #

F083

Acctnum: ENTCONGJCO

Template: T180603

Prelogin: P822819

PM: 824 - Chris Ward

PB:

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

\* Matrix:

SS - Soil

AIR - Air

F - Filter

GW - Groundwater

B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

1676 2750 4818

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 17.2 C

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Flow

Temp

Other

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N

COC Signed/Accurate: X Y N

Bottles arrive intact: X Y N

Correct bottles used: X Y N

Sufficient volume sent: Y Y N

If Applicable

VOA Zero Headspace: Y Y N

Preservation Correct/Checked: Y Y N

RAD Screen <0.5 mR/hr: Y Y N

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

**Entrada Consulting Group**

Sample Delivery Group: L1346887  
Samples Received: 05/01/2021  
Project Number: 021-054  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc



# SAMPLE SUMMARY

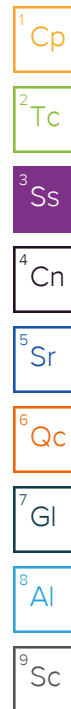
## SB5-SS1 L1346887-01 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 10:35

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:50	05/07/21 19:50	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:17	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666894	1	05/09/21 02:54	05/09/21 09:10	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667101	1	05/09/21 02:55	05/09/21 07:34	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:38	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 20:59	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:31	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667924	25	05/04/21 20:12	05/10/21 18:46	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 20:12	05/06/21 02:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1667305	10	05/04/21 20:12	05/10/21 01:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 18:39	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 14:00	AAT	Mt. Juliet, TN



## SB5-SS2 L1346887-02 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 10:55

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 19:52	05/07/21 19:52	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:23	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:41	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:02	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666997	25	05/04/21 20:12	05/10/21 06:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	8	05/04/21 20:12	05/06/21 06:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 18:52	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 14:40	AAT	Mt. Juliet, TN

## SB5-SS3 L1346887-03 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 11:05

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 20:00	05/07/21 20:00	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 15:04	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:44	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:05	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1666995	1	05/04/21 20:12	05/09/21 05:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1667305	1	05/04/21 20:12	05/10/21 00:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/09/21 20:05	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 15:00	AAT	Mt. Juliet, TN

## SB5-SS4 L1346887-04 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 11:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 20:03	05/07/21 20:03	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:33	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN

# SAMPLE SUMMARY

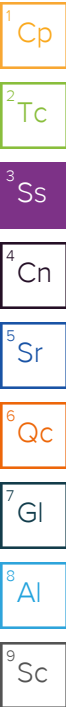
## SB5-SS4 L1346887-04 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 11:30

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:47	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:07	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:40	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667699	250	05/04/21 20:12	05/10/21 21:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	8	05/04/21 20:12	05/06/21 07:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666662	1	05/07/21 22:49	05/08/21 19:19	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 15:20	AAT	Mt. Juliet, TN



## SB5-SS5 L1346887-05 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 11:45

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 20:06	05/07/21 20:06	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:49	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:50	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:10	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:44	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667699	1	05/04/21 20:12	05/10/21 19:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 20:12	05/06/21 03:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666702	1	05/08/21 00:09	05/08/21 23:19	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 15:40	AAT	Mt. Juliet, TN

## SB5-SS6 L1346887-06 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 11:50

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 20:09	05/07/21 20:09	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:54	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:53	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:13	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:47	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1668016	25	05/04/21 20:12	05/11/21 02:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 20:12	05/06/21 03:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666702	1	05/08/21 00:09	05/08/21 23:32	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 15:59	AAT	Mt. Juliet, TN

## SB5-SS7 L1346887-07 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 12:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1663244	1	05/07/21 20:11	05/07/21 20:11	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1668256	1	05/11/21 11:30	05/12/21 14:59	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1666895	1	05/09/21 02:55	05/09/21 09:06	ARD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1667102	1	05/09/21 02:57	05/09/21 07:49	ARD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1665508	1	05/07/21 22:36	05/08/21 16:56	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1663269	1	05/05/21 12:58	05/07/21 21:16	RDS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1665512	5	05/07/21 22:33	05/08/21 19:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1667699	1	05/04/21 20:12	05/10/21 20:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1665053	1	05/04/21 20:12	05/06/21 04:12	DWR	Mt. Juliet, TN

# SAMPLE SUMMARY

SB5-SS7 L1346887-07 Solid

Collected by  
R Johnson

Collected date/time  
04/30/21 12:00

Received date/time  
05/01/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1666702	1	05/08/21 00:09	05/09/21 15:05	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1666671	1	05/07/21 22:01	05/08/21 16:19	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.51		1	05/07/2021 19:50	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:17	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.34	<a href="#">T8</a>	1	05/09/2021 09:10	<a href="#">WG1666894</a>

## Sample Narrative:

L1346887-01 WG1666894: 8.34 at 21.6C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	291		10.0	1	05/09/2021 07:34	<a href="#">WG1667101</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	236		0.500	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Copper	16.6		2.00	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Lead	8.64		0.500	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Nickel	14.6		2.00	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:38	<a href="#">WG1665508</a>
Zinc	45.6		5.00	1	05/08/2021 16:38	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

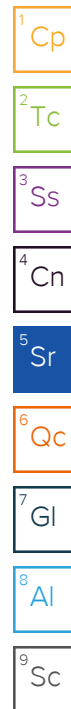
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.324		0.200	1	05/07/2021 20:59	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.64		1.00	5	05/08/2021 19:31	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	223		2.50	25	05/10/2021 18:46	<a href="#">WG1667924</a>
(S) a,a,a-Trifluorotoluene(FID)	88.0		77.0-120		05/10/2021 18:46	<a href="#">WG1667924</a>



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

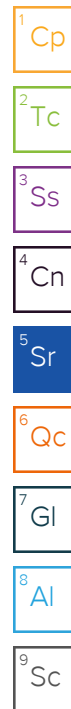
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.116		0.00100	1	05/06/2021 02:57	<a href="#">WG1665053</a>
Toluene	17.1		0.0500	10	05/10/2021 01:12	<a href="#">WG1667305</a>
Ethylbenzene	0.176		0.00250	1	05/06/2021 02:57	<a href="#">WG1665053</a>
Xylenes, Total	2.03		0.00650	1	05/06/2021 02:57	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 02:57	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:57	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 02:57	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 02:57	<a href="#">WG1665053</a>
(S) Toluene-d8	101		75.0-131		05/10/2021 01:12	<a href="#">WG1667305</a>
(S) 4-Bromofluorobenzene	94.4		67.0-138		05/06/2021 02:57	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	96.1		67.0-138		05/10/2021 01:12	<a href="#">WG1667305</a>
(S) 1,2-Dichloroethane-d4	83.5		70.0-130		05/06/2021 02:57	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	101		70.0-130		05/10/2021 01:12	<a href="#">WG1667305</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	19.3		4.00	1	05/08/2021 18:39	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	83.0		4.00	1	05/08/2021 18:39	<a href="#">WG1666662</a>
(S) o-Terphenyl	78.2		18.0-148		05/08/2021 18:39	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 14:00	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:00	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:00	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:00	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	70.5		23.0-120		05/08/2021 14:00	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	48.0		14.0-149		05/08/2021 14:00	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	58.0		34.0-125		05/08/2021 14:00	<a href="#">WG1666671</a>



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.42		1	05/07/2021 19:52	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:23	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.00	<a href="#">T8</a>	1	05/09/2021 09:06	<a href="#">WG1666895</a>

## Sample Narrative:

L1346887-02 WG1666895: 8 at 22C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1650		10.0	1	05/09/2021 07:49	<a href="#">WG1667102</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	240		0.500	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Copper	18.0		2.00	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Lead	9.23		0.500	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Nickel	17.1		2.00	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:41	<a href="#">WG1665508</a>
Zinc	55.3		5.00	1	05/08/2021 16:41	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

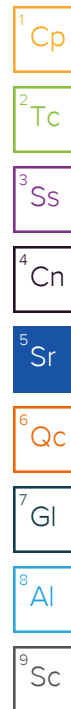
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.384		0.200	1	05/07/2021 21:02	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.05		1.00	5	05/08/2021 19:34	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	112		2.50	25	05/10/2021 06:11	<a href="#">WG1666997</a>
(S) a,a,a-Trifluorotoluene(FID)	88.7		77.0-120		05/10/2021 06:11	<a href="#">WG1666997</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.197		0.00800	8	05/06/2021 06:44	<a href="#">WG1665053</a>
Toluene	0.161		0.0400	8	05/06/2021 06:44	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.0200	8	05/06/2021 06:44	<a href="#">WG1665053</a>
Xylenes, Total	0.103		0.0520	8	05/06/2021 06:44	<a href="#">WG1665053</a>
Naphthalene	ND		0.100	8	05/06/2021 06:44	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.0400	8	05/06/2021 06:44	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.0400	8	05/06/2021 06:44	<a href="#">WG1665053</a>
(S) Toluene-d8	103		75.0-131		05/06/2021 06:44	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	93.6		67.0-138		05/06/2021 06:44	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	96.4		70.0-130		05/06/2021 06:44	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	35.5		4.00	1	05/08/2021 18:52	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	98.0		4.00	1	05/08/2021 18:52	<a href="#">WG1666662</a>
(S) o-Terphenyl	60.5		18.0-148		05/08/2021 18:52	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 14:40	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:40	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 14:40	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 14:40	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	51.7		23.0-120		05/08/2021 14:40	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	37.3		14.0-149		05/08/2021 14:40	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	42.9		34.0-125		05/08/2021 14:40	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.76		1	05/07/2021 20:00	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND	J6	1.00	1	05/12/2021 15:04	WG1668256

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.49	T8	1	05/09/2021 09:06	WG1666895

## Sample Narrative:

L1346887-03 WG1666895: 8.49 at 22C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	359		10.0	1	05/09/2021 07:49	WG1667102

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	138		0.500	1	05/08/2021 16:44	WG1665508
Cadmium	ND		0.500	1	05/08/2021 16:44	WG1665508
Copper	16.9		2.00	1	05/08/2021 16:44	WG1665508
Lead	9.38		0.500	1	05/08/2021 16:44	WG1665508
Nickel	15.4		2.00	1	05/08/2021 16:44	WG1665508
Selenium	ND		2.00	1	05/08/2021 16:44	WG1665508
Silver	ND		1.00	1	05/08/2021 16:44	WG1665508
Zinc	54.0		5.00	1	05/08/2021 16:44	WG1665508

## Metals (ICP) by Method 6010B-NE493 Ch 2

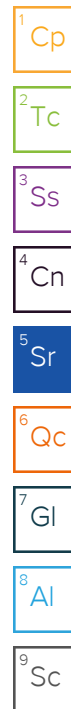
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.353		0.200	1	05/07/2021 21:05	WG1663269

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.50		1.00	5	05/08/2021 19:37	WG1665512

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.99		0.100	1	05/09/2021 05:10	WG1666995
(S) a,a,a-Trifluorotoluene(FID)	94.9		77.0-120		05/09/2021 05:10	WG1666995



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00478		0.00100	1	05/10/2021 00:53	<a href="#">WG1667305</a>
Toluene	0.0165		0.00500	1	05/10/2021 00:53	<a href="#">WG1667305</a>
Ethylbenzene	ND		0.00250	1	05/10/2021 00:53	<a href="#">WG1667305</a>
Xylenes, Total	0.0117		0.00650	1	05/10/2021 00:53	<a href="#">WG1667305</a>
Naphthalene	ND		0.0125	1	05/10/2021 00:53	<a href="#">WG1667305</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/10/2021 00:53	<a href="#">WG1667305</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/10/2021 00:53	<a href="#">WG1667305</a>
(S) Toluene-d8	106		75.0-131		05/10/2021 00:53	<a href="#">WG1667305</a>
(S) 4-Bromofluorobenzene	94.9		67.0-138		05/10/2021 00:53	<a href="#">WG1667305</a>
(S) 1,2-Dichloroethane-d4	100		70.0-130		05/10/2021 00:53	<a href="#">WG1667305</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	14.0		4.00	1	05/09/2021 20:05	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	58.3		4.00	1	05/09/2021 20:05	<a href="#">WG1666662</a>
(S) o-Terphenyl	74.8		18.0-148		05/09/2021 20:05	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 15:00	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:00	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:00	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:00	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	56.7		23.0-120		05/08/2021 15:00	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	37.7		14.0-149		05/08/2021 15:00	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	47.1		34.0-125		05/08/2021 15:00	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.68		1	05/07/2021 20:03	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:33	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.40	<a href="#">T8</a>	1	05/09/2021 09:06	<a href="#">WG1666895</a>

## Sample Narrative:

L1346887-04 WG1666895: 8.4 at 21.9C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	389		10.0	1	05/09/2021 07:49	<a href="#">WG1667102</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	129		0.500	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Copper	16.7		2.00	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Lead	10.5		0.500	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Nickel	14.8		2.00	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:47	<a href="#">WG1665508</a>
Zinc	55.1		5.00	1	05/08/2021 16:47	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.223		0.200	1	05/07/2021 21:07	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.89		1.00	5	05/08/2021 19:40	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	451		25.0	250	05/10/2021 21:19	<a href="#">WG1667699</a>
(S) a,a,a-Trifluorotoluene(FID)	97.5		77.0-120		05/10/2021 21:19	<a href="#">WG1667699</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.865		0.00800	8	05/06/2021 07:03	<a href="#">WG1665053</a>
Toluene	13.1		0.0400	8	05/06/2021 07:03	<a href="#">WG1665053</a>
Ethylbenzene	1.17		0.0200	8	05/06/2021 07:03	<a href="#">WG1665053</a>
Xylenes, Total	18.3		0.0520	8	05/06/2021 07:03	<a href="#">WG1665053</a>
Naphthalene	0.110		0.100	8	05/06/2021 07:03	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	1.55		0.0400	8	05/06/2021 07:03	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	1.23		0.0400	8	05/06/2021 07:03	<a href="#">WG1665053</a>
(S) Toluene-d8	103		75.0-131		05/06/2021 07:03	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	96.3		67.0-138		05/06/2021 07:03	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	98.1		70.0-130		05/06/2021 07:03	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	19.5		4.00	1	05/08/2021 19:19	<a href="#">WG1666662</a>
C28-C36 Motor Oil Range	49.7		4.00	1	05/08/2021 19:19	<a href="#">WG1666662</a>
(S) o-Terphenyl	67.8		18.0-148		05/08/2021 19:19	<a href="#">WG1666662</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Naphthalene	0.0585		0.0200	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 15:20	<a href="#">WG1666671</a>
1-Methylnaphthalene	0.0245		0.0200	1	05/08/2021 15:20	<a href="#">WG1666671</a>
2-Methylnaphthalene	0.0592		0.0200	1	05/08/2021 15:20	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:20	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	64.5		23.0-120		05/08/2021 15:20	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	53.4		14.0-149		05/08/2021 15:20	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	54.7		34.0-125		05/08/2021 15:20	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.14		1	05/07/2021 20:06	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:49	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.55	<a href="#">T8</a>	1	05/09/2021 09:06	<a href="#">WG1666895</a>

## Sample Narrative:

L1346887-05 WG1666895: 8.55 at 21.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	444		10.0	1	05/09/2021 07:49	<a href="#">WG1667102</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	164		0.500	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Copper	18.8		2.00	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Lead	9.91		0.500	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Nickel	16.0		2.00	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:50	<a href="#">WG1665508</a>
Zinc	55.9		5.00	1	05/08/2021 16:50	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

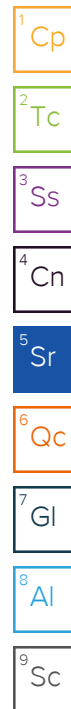
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.345		0.200	1	05/07/2021 21:10	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.59		1.00	5	05/08/2021 19:44	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.886		0.100	1	05/10/2021 19:52	<a href="#">WG1667699</a>
(S) a,a,a-Trifluorotoluene(FID)	92.4		77.0-120		05/10/2021 19:52	<a href="#">WG1667699</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00302		0.00100	1	05/06/2021 03:34	<a href="#">WG1665053</a>
Toluene	0.0398		0.00500	1	05/06/2021 03:34	<a href="#">WG1665053</a>
Ethylbenzene	0.00359		0.00250	1	05/06/2021 03:34	<a href="#">WG1665053</a>
Xylenes, Total	0.0569		0.00650	1	05/06/2021 03:34	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 03:34	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	0.00686		0.00500	1	05/06/2021 03:34	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	0.00537		0.00500	1	05/06/2021 03:34	<a href="#">WG1665053</a>
(S) Toluene-d8	104		75.0-131		05/06/2021 03:34	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	95.3		67.0-138		05/06/2021 03:34	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	87.4		70.0-130		05/06/2021 03:34	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 23:19	<a href="#">WG1666702</a>
C28-C36 Motor Oil Range	ND		4.00	1	05/08/2021 23:19	<a href="#">WG1666702</a>
(S) o-Terphenyl	73.3		18.0-148		05/08/2021 23:19	<a href="#">WG1666702</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 15:40	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:40	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:40	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:40	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	77.9		23.0-120		05/08/2021 15:40	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	49.8		14.0-149		05/08/2021 15:40	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	62.4		34.0-125		05/08/2021 15:40	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.89		1	05/07/2021 20:09	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:54	<a href="#">WG1668256</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	9.06	<a href="#">T8</a>	1	05/09/2021 09:06	<a href="#">WG1666895</a>

## Sample Narrative:

L1346887-06 WG1666895: 9.06 at 22.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	619		10.0	1	05/09/2021 07:49	<a href="#">WG1667102</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	195		0.500	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Copper	18.1		2.00	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Lead	8.34		0.500	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Nickel	16.4		2.00	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:53	<a href="#">WG1665508</a>
Zinc	54.9		5.00	1	05/08/2021 16:53	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

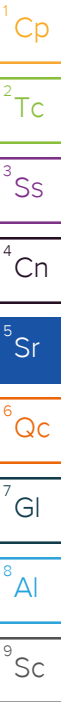
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.324		0.200	1	05/07/2021 21:13	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.02		1.00	5	05/08/2021 19:47	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		2.50	25	05/11/2021 02:51	<a href="#">WG1668016</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4		77.0-120		05/11/2021 02:51	<a href="#">WG1668016</a>



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00123		0.00100	1	05/06/2021 03:53	<a href="#">WG1665053</a>
Toluene	0.00863		0.00500	1	05/06/2021 03:53	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 03:53	<a href="#">WG1665053</a>
Xylenes, Total	0.00948		0.00650	1	05/06/2021 03:53	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 03:53	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 03:53	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 03:53	<a href="#">WG1665053</a>
(S) Toluene-d8	103		75.0-131		05/06/2021 03:53	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	94.8		67.0-138		05/06/2021 03:53	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	86.6		70.0-130		05/06/2021 03:53	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/08/2021 23:32	<a href="#">WG1666702</a>
C28-C36 Motor Oil Range	11.3	<a href="#">B</a>	4.00	1	05/08/2021 23:32	<a href="#">WG1666702</a>
(S) o-Terphenyl	60.0		18.0-148		05/08/2021 23:32	<a href="#">WG1666702</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 15:59	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:59	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 15:59	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 15:59	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	69.8		23.0-120		05/08/2021 15:59	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	47.7		14.0-149		05/08/2021 15:59	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	57.5		34.0-125		05/08/2021 15:59	<a href="#">WG1666671</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.44		1	05/07/2021 20:11	WG1663244

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND		1.00	1	05/12/2021 14:59	<a href="#">WG1668256</a>

## Sample Narrative:

L1346887-07 WG1668256: Sample is a reducer.

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.93	<a href="#">T8</a>	1	05/09/2021 09:06	<a href="#">WG1666895</a>

## Sample Narrative:

L1346887-07 WG1666895: 8.93 at 21.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	712		10.0	1	05/09/2021 07:49	<a href="#">WG1667102</a>

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	195		0.500	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Cadmium	ND		0.500	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Copper	15.8		2.00	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Lead	9.24		0.500	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Nickel	16.2		2.00	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Selenium	ND		2.00	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Silver	ND		1.00	1	05/08/2021 16:56	<a href="#">WG1665508</a>
Zinc	55.6		5.00	1	05/08/2021 16:56	<a href="#">WG1665508</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

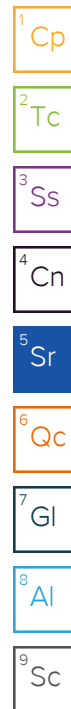
Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.333		0.200	1	05/07/2021 21:16	<a href="#">WG1663269</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.93		1.00	5	05/08/2021 19:50	<a href="#">WG1665512</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.348		0.100	1	05/10/2021 20:13	<a href="#">WG1667699</a>
(S) a,a,a-Trifluorotoluene(FID)	92.0		77.0-120		05/10/2021 20:13	<a href="#">WG1667699</a>



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

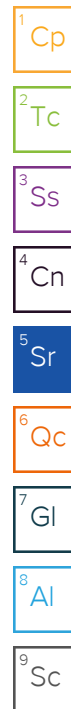
Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	05/06/2021 04:12	<a href="#">WG1665053</a>
Toluene	ND		0.00500	1	05/06/2021 04:12	<a href="#">WG1665053</a>
Ethylbenzene	ND		0.00250	1	05/06/2021 04:12	<a href="#">WG1665053</a>
Xylenes, Total	ND		0.00650	1	05/06/2021 04:12	<a href="#">WG1665053</a>
Naphthalene	ND		0.0125	1	05/06/2021 04:12	<a href="#">WG1665053</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	05/06/2021 04:12	<a href="#">WG1665053</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	05/06/2021 04:12	<a href="#">WG1665053</a>
(S) Toluene-d8	103		75.0-131		05/06/2021 04:12	<a href="#">WG1665053</a>
(S) 4-Bromofluorobenzene	95.4		67.0-138		05/06/2021 04:12	<a href="#">WG1665053</a>
(S) 1,2-Dichloroethane-d4	81.9		70.0-130		05/06/2021 04:12	<a href="#">WG1665053</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.00	1	05/09/2021 15:05	<a href="#">WG1666702</a>
C28-C36 Motor Oil Range	10.7	<a href="#">B</a>	4.00	1	05/09/2021 15:05	<a href="#">WG1666702</a>
(S) o-Terphenyl	56.3		18.0-148		05/09/2021 15:05	<a href="#">WG1666702</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Acenaphthene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Acenaphthylene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Benzo(a)anthracene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Benzo(a)pyrene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Benzo(b)fluoranthene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Benzo(g,h,i)perylene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Benzo(k)fluoranthene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Chrysene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Dibenz(a,h)anthracene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Fluoranthene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Fluorene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Naphthalene	ND		0.0200	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Phenanthrene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
Pyrene	ND		0.00600	1	05/08/2021 16:19	<a href="#">WG1666671</a>
1-Methylnaphthalene	ND		0.0200	1	05/08/2021 16:19	<a href="#">WG1666671</a>
2-Methylnaphthalene	ND		0.0200	1	05/08/2021 16:19	<a href="#">WG1666671</a>
2-Chloronaphthalene	ND		0.0200	1	05/08/2021 16:19	<a href="#">WG1666671</a>
(S) p-Terphenyl-d14	52.3		23.0-120		05/08/2021 16:19	<a href="#">WG1666671</a>
(S) Nitrobenzene-d5	36.2		14.0-149		05/08/2021 16:19	<a href="#">WG1666671</a>
(S) 2-Fluorobiphenyl	45.8		34.0-125		05/08/2021 16:19	<a href="#">WG1666671</a>



Method Blank (MB)

(MB) R3653932-1 05/12/21 12:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1346887-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1346887-02 05/12/21 14:23 • (DUP) R3653932-4 05/12/21 14:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3653932-2 05/12/21 12:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.95	99.5	80.0-120	

L1346887-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346887-03 05/12/21 15:04 • (MS) R3653932-5 05/12/21 15:09 • (MSD) R3653932-6 05/12/21 15:21

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	ND	12.6	12.8	63.0	64.1	1	75.0-125	J6	J6	1.72	20

L1346887-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1346887-03 05/12/21 15:04 • (MS) R3653932-7 05/12/21 15:28

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	665	ND	565	85.0	50	75.0-125	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 09:10 • (DUP) R3652053-2 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.12	8.13	1	0.123		1

Sample Narrative:

OS: 8.12 at 21.3C

DUP: 8.13 at 21.3C

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 09:10 • (DUP) R3652053-3 05/09/21 09:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.52	8.50	1	0.235		1

Sample Narrative:

OS: 8.52 at 21.4C

DUP: 8.5 at 21.4C

Laboratory Control Sample (LCS)

(LCS) R3652053-1 05/09/21 09:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.04 at 20.4C



L1346887-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1346887-04 05/09/21 09:06 • (DUP) R3652057-2 05/09/21 09:06

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.40	8.39	1	0.119		1

Sample Narrative:

OS: 8.4 at 21.9C

DUP: 8.39 at 21.9C

L1349376-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349376-03 05/09/21 09:06 • (DUP) R3652057-3 05/09/21 09:06

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.31	8.31	1	0.000		1

Sample Narrative:

OS: 8.31 at 21.4C

DUP: 8.31 at 21.5C

Laboratory Control Sample (LCS)

(LCS) R3652057-1 05/09/21 09:06

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.1	101	99.0-101	

Sample Narrative:

LCS: 10.06 at 20.6C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652040-1 05/09/21 07:34

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1346835-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346835-03 05/09/21 07:34 • (DUP) R3652040-3 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	246	245	1	0.448		20

L1346885-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1346885-03 05/09/21 07:34 • (DUP) R3652040-4 05/09/21 07:34

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	239	240	1	0.460		20

Laboratory Control Sample (LCS)

(LCS) R3652040-2 05/09/21 07:34

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	268	99.9	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3652039-1 05/09/21 07:49

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

L1346887-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1346887-04 05/09/21 07:49 • (DUP) R3652039-3 05/09/21 07:49

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	389	386	1	0.774		20

L1349376-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1349376-03 05/09/21 07:49 • (DUP) R3652039-4 05/09/21 07:49

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1360	1360	1	0.589		20

Laboratory Control Sample (LCS)

(LCS) R3652039-2 05/09/21 07:49

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	270	101	85.0-115	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652245-1 05/08/21 15:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

1  
Cp

2  
Tc

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Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Laboratory Control Sample (LCS)

(LCS) R3652245-2 05/08/21 15:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	97.5	97.5	80.0-120	
Cadmium	100	93.9	93.9	80.0-120	
Copper	100	95.9	95.9	80.0-120	
Lead	100	95.6	95.6	80.0-120	
Nickel	100	96.9	96.9	80.0-120	
Selenium	100	95.4	95.4	80.0-120	
Silver	20.0	17.3	86.4	80.0-120	
Zinc	100	94.5	94.5	80.0-120	

L1346885-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-07 05/08/21 15:59 • (MS) R3652245-5 05/08/21 16:08 • (MSD) R3652245-6 05/08/21 16:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	202	261	250	59.4	47.9	1	75.0-125	J6	J6	4.50	20
Cadmium	100	ND	90.1	88.1	89.6	87.6	1	75.0-125			2.24	20
Copper	100	17.8	108	106	90.0	88.3	1	75.0-125			1.56	20
Lead	100	10.5	104	102	93.9	91.6	1	75.0-125			2.20	20
Nickel	100	16.7	113	111	96.7	94.8	1	75.0-125			1.75	20
Selenium	100	2.02	91.6	89.4	89.6	87.4	1	75.0-125			2.49	20
Silver	20.0	ND	17.0	16.6	84.9	82.8	1	75.0-125			2.52	20
Zinc	100	58.7	138	137	79.6	77.9	1	75.0-125			1.22	20

Method Blank (MB)

(MB) R3652273-1 05/07/21 20:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652273-2 05/07/21 20:30 • (LCSD) R3652273-3 05/07/21 20:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.966	0.970	96.6	97.0	80.0-120			0.404	20

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Method Blank (MB)

(MB) R3652016-1 05/08/21 18:42

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3652016-2 05/08/21 18:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	93.8	93.8	80.0-120	

L1346885-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-07 05/08/21 18:49 • (MS) R3652016-5 05/08/21 18:58 • (MSD) R3652016-6 05/08/21 19:02

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	7.75	92.3	89.5	84.5	81.7	5	75.0-125			3.11	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652584-2 05/08/21 21:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0530	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652584-1 05/08/21 20:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.61	120	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			117	77.0-120	

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Method Blank (MB)

(MB) R3652452-2 05/10/21 02:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652452-1 05/10/21 02:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.70	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

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Method Blank (MB)

(MB) R3652678-2 05/10/21 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652678-1 05/10/21 16:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652681-2 05/10/21 17:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652681-1 05/10/21 16:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

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Method Blank (MB)

(MB) R3652775-2 05/11/21 02:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3652775-1 05/11/21 01:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.32	96.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			113	77.0-120	

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Cn

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Method Blank (MB)

(MB) R3652153-3 05/06/21 00:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	93.9			67.0-138
(S) 1,2-Dichloroethane-d4	85.1			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652153-1 05/05/21 23:28 • (LCSD) R3652153-2 05/05/21 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.117	0.113	93.6	90.4	70.0-123			3.48	20
Ethylbenzene	0.125	0.110	0.113	88.0	90.4	74.0-126			2.69	20
Naphthalene	0.125	0.117	0.120	93.6	96.0	59.0-130			2.53	20
Toluene	0.125	0.116	0.111	92.8	88.8	75.0-121			4.41	20
1,2,4-Trimethylbenzene	0.125	0.119	0.120	95.2	96.0	70.0-126			0.837	20
1,3,5-Trimethylbenzene	0.125	0.112	0.113	89.6	90.4	73.0-127			0.889	20
Xylenes, Total	0.375	0.340	0.332	90.7	88.5	72.0-127			2.38	20
(S) Toluene-d8				98.8	99.7	75.0-131				
(S) 4-Bromofluorobenzene				95.9	95.7	67.0-138				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

1Cp

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8Al

9Sc

Method Blank (MB)

(MB) R3652606-3 05/09/21 23:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	0.00130	U	0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	90.2			67.0-138
(S) 1,2-Dichloroethane-d4	76.9			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3652606-1 05/09/21 22:02 • (LCSD) R3652606-2 05/09/21 22:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.130	0.115	104	92.0	70.0-123			12.2	20
Ethylbenzene	0.125	0.127	0.116	102	92.8	74.0-126			9.05	20
Naphthalene	0.125	0.100	0.106	80.0	84.8	59.0-130			5.83	20
Toluene	0.125	0.129	0.120	103	96.0	75.0-121			7.23	20
1,2,4-Trimethylbenzene	0.125	0.129	0.122	103	97.6	70.0-126			5.58	20
1,3,5-Trimethylbenzene	0.125	0.124	0.114	99.2	91.2	73.0-127			8.40	20
Xylenes, Total	0.375	0.394	0.345	105	92.0	72.0-127			13.3	20
(S) Toluene-d8				102	101	75.0-131				
(S) 4-Bromofluorobenzene				96.5	93.1	67.0-138				
(S) 1,2-Dichloroethane-d4				104	100	70.0-130				

1Cp

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Method Blank (MB)

(MB) R3652086-1 05/08/21 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.287	⬇	0.274	4.00
(S) o-Terphenyl	66.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3652086-2 05/08/21 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.7	75.4	50.0-150	
(S) o-Terphenyl			69.5	18.0-148	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652133-1 05/08/21 20:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	1.58	J	0.274	4.00
(S) o-Terphenyl	81.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3652133-2 05/08/21 20:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	49.2	98.4	50.0-150	
(S) o-Terphenyl			66.2	18.0-148	

L1346866-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346866-12 05/09/21 00:51 • (MS) R3652133-3 05/09/21 01:04 • (MSD) R3652133-4 05/09/21 01:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.9	1240	1650	1280	838	82.3	5	50.0-150	E V	J3	25.3	20
(S) o-Terphenyl					146	121		18.0-148				

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Method Blank (MB)

(MB) R3652370-2 05/08/21 10:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	62.8			14.0-149
(S) 2-Fluorobiphenyl	77.3			34.0-125
(S) p-Terphenyl-d14	97.0			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3652370-1 05/08/21 10:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0626	78.3	50.0-126	
Acenaphthene	0.0800	0.0686	85.8	50.0-120	
Acenaphthylene	0.0800	0.0661	82.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0626	78.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0554	69.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0717	89.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0743	92.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0698	87.3	49.0-125	
Chrysene	0.0800	0.0734	91.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0787	98.4	47.0-125	
Fluoranthene	0.0800	0.0713	89.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3652370-1 05/08/21 10:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0741	92.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0659	82.4	46.0-125	
Naphthalene	0.0800	0.0658	82.3	50.0-120	
Phenanthrene	0.0800	0.0687	85.9	47.0-120	
Pyrene	0.0800	0.0695	86.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0741	92.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0667	83.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0665	83.1	50.0-120	
(S) Nitrobenzene-d5			64.6	14.0-149	
(S) 2-Fluorobiphenyl			80.5	34.0-125	
(S) p-Terphenyl-d14			91.6	23.0-120	

L1346885-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1346885-06 05/08/21 11:01 • (MS) R3652370-3 05/08/21 11:21 • (MSD) R3652370-4 05/08/21 11:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0764	ND	0.0369	0.0365	48.3	48.0	1	10.0-145			1.09	30
Acenaphthene	0.0764	ND	0.0416	0.0396	54.5	52.1	1	14.0-127			4.93	27
Acenaphthylene	0.0764	ND	0.0374	0.0376	49.0	49.5	1	21.0-124			0.533	25
Benzo(a)anthracene	0.0764	ND	0.0391	0.0388	51.2	51.1	1	10.0-139			0.770	30
Benzo(a)pyrene	0.0764	ND	0.0445	0.0437	58.2	57.5	1	10.0-141			1.81	31
Benzo(b)fluoranthene	0.0764	ND	0.0444	0.0441	58.1	58.0	1	10.0-140			0.678	36
Benzo(g,h,i)perylene	0.0764	ND	0.0488	0.0495	63.9	65.1	1	10.0-140			1.42	33
Benzo(k)fluoranthene	0.0764	ND	0.0497	0.0480	65.1	63.2	1	10.0-137			3.48	31
Chrysene	0.0764	ND	0.0517	0.0504	67.7	66.3	1	10.0-145			2.55	30
Dibenz(a,h)anthracene	0.0764	ND	0.0502	0.0544	65.7	71.6	1	10.0-132			8.03	31
Fluoranthene	0.0764	ND	0.0411	0.0426	53.8	56.1	1	10.0-153			3.58	33
Fluorene	0.0764	ND	0.0438	0.0420	57.3	55.3	1	11.0-130			4.20	29
Indeno(1,2,3-cd)pyrene	0.0764	ND	0.0432	0.0424	56.5	55.8	1	10.0-137			1.87	32
Naphthalene	0.0764	ND	0.101	0.0421	132	55.4	1	10.0-135	J3		82.3	27
Phenanthrene	0.0764	ND	0.0414	0.0409	54.2	53.8	1	10.0-144			1.22	31
Pyrene	0.0764	ND	0.0427	0.0430	55.9	56.6	1	10.0-148			0.700	35
1-Methylnaphthalene	0.0764	ND	0.0542	0.0451	70.9	59.3	1	10.0-142			18.3	28
2-Methylnaphthalene	0.0764	ND	0.0613	0.0421	80.2	55.4	1	10.0-137	J3		37.1	28
2-Chloronaphthalene	0.0764	ND	0.0394	0.0384	51.6	50.5	1	29.0-120			2.57	24
(S) Nitrobenzene-d5					57.9	51.9		14.0-149				
(S) 2-Fluorobiphenyl					71.9	64.9		34.0-125				
(S) p-Terphenyl-d14					80.4	74.2		23.0-120				

1Cp

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# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

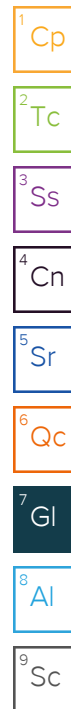
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





**Entrada Consulting Group**

Sample Delivery Group: L1399015  
Samples Received: 09/03/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

## 20210902-BAKERCANYON-MW6 (5-7) L1399015-01 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 08:45

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:32	09/10/21 18:32	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736603	1	09/08/21 08:00	09/09/21 17:15	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:25	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:02	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 11:53	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737427	1	09/04/21 18:56	09/10/21 12:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 21:48	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 20:05	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1736875	1	09/09/21 14:06	09/10/21 02:41	AAT	Mt. Juliet, TN



## 20210902-BAKERCANYON-MW6 (10-12) L1399015-02 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 09:30

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:35	09/10/21 18:35	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736603	1	09/08/21 08:00	09/09/21 17:20	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:28	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:05	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 11:57	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736018	1	09/04/21 18:56	09/08/21 02:28	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 22:07	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	10	09/08/21 14:50	09/09/21 20:59	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1736875	1	09/09/21 14:06	09/10/21 04:01	AAT	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW6 (15-17) L1399015-03 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 10:00

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:38	09/10/21 18:38	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736603	1	09/08/21 08:00	09/09/21 17:35	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:31	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:08	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:00	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736018	1	09/04/21 18:56	09/08/21 02:52	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 22:26	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 20:18	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1736875	1	09/09/21 14:06	09/10/21 03:01	AAT	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW6 (20-22) L1399015-04 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 10:30

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:40	09/10/21 18:40	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 18:53	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:39	CCE	Mt. Juliet, TN



# SAMPLE SUMMARY

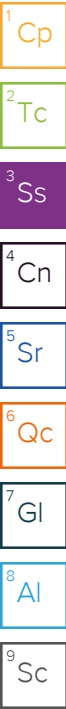
## 20210902-BAKERCANYON-MW6 (20-22) L1399015-04 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 10:30

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:11	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 15:16	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1736018	1	09/04/21 18:56	09/08/21 03:16	MGF	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 22:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 19:24	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1736875	1	09/09/21 14:06	09/10/21 03:21	AAT	Mt. Juliet, TN



## 20210902-BAKERCANYON-MW6 (25-27) L1399015-05 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 11:00

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:43	09/10/21 18:43	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 19:19	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:42	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:14	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 15:20	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737432	1	09/04/21 18:56	09/10/21 13:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 23:05	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 18:30	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 16:50	AMG	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW6 (30-32) L1399015-06 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 11:45

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:46	09/10/21 18:46	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 19:29	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:45	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:17	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:18	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1738721	1	09/04/21 18:56	09/13/21 17:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 23:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 18:44	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 17:10	AMG	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW7 (5-7) L1399015-07 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 13:45

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:49	09/10/21 18:49	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 19:45	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:48	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:20	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:22	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/10/21 22:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/06/21 23:43	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 18:57	DMG	Mt. Juliet, TN

# SAMPLE SUMMARY

## 20210902-BAKERCANYON-MW7 (5-7) L1399015-07 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 13:45

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 17:30	AMG	Mt. Juliet, TN



## 20210902-BAKERCANYON-MW7 (10-12) L1399015-08 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 14:00

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:51	09/10/21 18:51	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 19:50	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:51	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:29	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:25	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/10/21 22:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/07/21 00:02	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 20:32	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 20:11	AMG	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW7 (15-17) L1399015-09 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 14:25

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 18:54	09/10/21 18:54	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 19:55	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:54	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:32	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:28	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/10/21 23:03	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/07/21 00:21	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 19:38	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 17:50	AMG	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW7 (20-22) L1399015-10 Solid

Collected by  
R. Johnson

Collected date/time  
09/02/21 14:45

Received date/time  
09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 19:02	09/10/21 19:02	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 20:00	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:57	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:35	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:31	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/10/21 23:27	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/07/21 00:40	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 19:51	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 19:51	AMG	Mt. Juliet, TN

# SAMPLE SUMMARY

## 20210902-BAKERCANYON-MW7 (25-27) L1399015-11 Solid

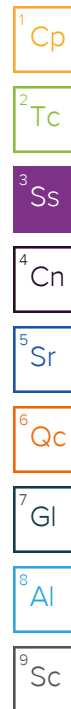
Collected by R. Johnson Collected date/time 09/02/21 15:00 Received date/time 09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 19:04	09/10/21 19:04	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 20:11	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 21:59	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:38	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:35	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/10/21 23:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/07/21 00:59	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 17:36	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 18:10	AMG	Mt. Juliet, TN

## 20210902-BAKERCANYON-MW7 (30-32) L1399015-12 Solid

Collected by R. Johnson Collected date/time 09/02/21 15:35 Received date/time 09/03/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1735056	1	09/10/21 19:07	09/10/21 19:07	KMG	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1736615	1	09/08/21 08:32	09/09/21 20:16	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1737193	1	09/09/21 13:00	09/09/21 15:00	BMD	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737155	1	09/09/21 11:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1735465	1	09/07/21 06:39	09/09/21 22:02	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1735054	1	09/08/21 10:44	09/10/21 13:40	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1735464	5	09/07/21 06:41	09/09/21 12:38	JDG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1737359	1	09/04/21 18:56	09/11/21 00:15	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1735645	1	09/04/21 18:56	09/07/21 01:18	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1736869	1	09/08/21 14:50	09/09/21 18:16	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1737592	1	09/11/21 09:17	09/11/21 18:31	AMG	Mt. Juliet, TN



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.55		1	09/10/2021 18:32	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 17:15	<a href="#">WG1736603</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-01 WG1737193: 7.94 at 20.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	750		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-01 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	239		0.0852	0.500	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Cadmium	0.632		0.0471	0.500	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Copper	25.4		0.400	2.00	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Lead	11.8		0.208	0.500	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Nickel	19.8		0.132	2.00	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Selenium	1.31	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:25	<a href="#">WG1735465</a>
Zinc	68.1		0.832	5.00	1	09/09/2021 21:25	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

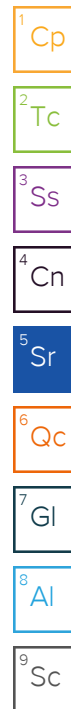
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.503		0.0167	0.200	1	09/10/2021 13:02	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.81		0.100	1.00	5	09/09/2021 11:53	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.645		0.0217	0.100	1	09/10/2021 12:53	<a href="#">WG1737427</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	92.2			77.0-120		09/10/2021 12:53	<a href="#">WG1737427</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 21:48	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 21:48	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 21:48	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 21:48	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 21:48	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 21:48	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 21:48	<a href="#">WG1735645</a>
(S) Toluene-d8	101			75.0-131		09/06/2021 21:48	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	98.9			67.0-138		09/06/2021 21:48	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		09/06/2021 21:48	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	40.6		1.61	4.00	1	09/09/2021 20:05	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	127		0.274	4.00	1	09/09/2021 20:05	<a href="#">WG1736869</a>
(S) o-Terphenyl	52.6			18.0-148		09/09/2021 20:05	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Acenaphthene	U		0.00209	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Acenaphthylene	U		0.00216	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Chrysene	U		0.00232	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Fluoranthene	U		0.00227	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Fluorene	U		0.00205	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Naphthalene	U		0.00408	0.0200	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Phenanthrene	U		0.00231	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
Pyrene	U		0.00200	0.00600	1	09/10/2021 02:41	<a href="#">WG1736875</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/10/2021 02:41	<a href="#">WG1736875</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/10/2021 02:41	<a href="#">WG1736875</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/10/2021 02:41	<a href="#">WG1736875</a>
(S) p-Terphenyl-d14	85.7			23.0-120		09/10/2021 02:41	<a href="#">WG1736875</a>
(S) Nitrobenzene-d5	77.5			14.0-149		09/10/2021 02:41	<a href="#">WG1736875</a>
(S) 2-Fluorobiphenyl	73.1			34.0-125		09/10/2021 02:41	<a href="#">WG1736875</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.39		1	09/10/2021 18:35	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 17:20	<a href="#">WG1736603</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.22	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-02 WG1737193: 8.22 at 20.6C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	579		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-02 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	272		0.0852	0.500	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Cadmium	0.602		0.0471	0.500	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Copper	24.9		0.400	2.00	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Lead	15.4		0.208	0.500	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Nickel	18.4		0.132	2.00	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Selenium	2.09		0.764	2.00	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:28	<a href="#">WG1735465</a>
Zinc	44.1		0.832	5.00	1	09/09/2021 21:28	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

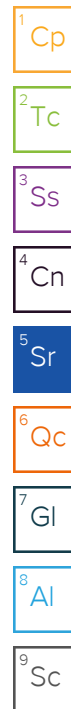
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.322		0.0167	0.200	1	09/10/2021 13:05	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.7		0.100	1.00	5	09/09/2021 11:57	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.253		0.0217	0.100	1	09/08/2021 02:28	<a href="#">WG1736018</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.7			77.0-120		09/08/2021 02:28	<a href="#">WG1736018</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 22:07	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 22:07	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 22:07	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 22:07	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 22:07	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 22:07	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 22:07	<a href="#">WG1735645</a>
(S) Toluene-d8	100			75.0-131		09/06/2021 22:07	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	97.8			67.0-138		09/06/2021 22:07	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		09/06/2021 22:07	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	155		16.1	40.0	10	09/09/2021 20:59	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	582		2.74	40.0	10	09/09/2021 20:59	<a href="#">WG1736869</a>
(S) o-Terphenyl	107			18.0-148		09/09/2021 20:59	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Acenaphthene	U		0.00209	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Acenaphthylene	U		0.00216	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Chrysene	U		0.00232	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Fluoranthene	U		0.00227	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Fluorene	U		0.00205	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Naphthalene	U		0.00408	0.0200	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Phenanthrene	U		0.00231	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
Pyrene	U		0.00200	0.00600	1	09/10/2021 04:01	<a href="#">WG1736875</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/10/2021 04:01	<a href="#">WG1736875</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/10/2021 04:01	<a href="#">WG1736875</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/10/2021 04:01	<a href="#">WG1736875</a>
(S) p-Terphenyl-d14	101			23.0-120		09/10/2021 04:01	<a href="#">WG1736875</a>
(S) Nitrobenzene-d5	87.1			14.0-149		09/10/2021 04:01	<a href="#">WG1736875</a>
(S) 2-Fluorobiphenyl	83.0			34.0-125		09/10/2021 04:01	<a href="#">WG1736875</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.02		1	09/10/2021 18:38	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 17:35	<a href="#">WG1736603</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-03 WG1737193: 8.05 at 20.9C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	718		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-03 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	184		0.0852	0.500	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Cadmium	0.630		0.0471	0.500	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Copper	21.4		0.400	2.00	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Lead	11.3		0.208	0.500	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Nickel	19.0		0.132	2.00	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Selenium	U		0.764	2.00	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:31	<a href="#">WG1735465</a>
Zinc	55.2		0.832	5.00	1	09/09/2021 21:31	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.320		0.0167	0.200	1	09/10/2021 13:08	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.60		0.100	1.00	5	09/09/2021 12:00	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.618		0.0217	0.100	1	09/08/2021 02:52	<a href="#">WG1736018</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		09/08/2021 02:52	<a href="#">WG1736018</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 22:26	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 22:26	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 22:26	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 22:26	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 22:26	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 22:26	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 22:26	<a href="#">WG1735645</a>
(S) Toluene-d8	104			75.0-131		09/06/2021 22:26	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	99.5			67.0-138		09/06/2021 22:26	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		09/06/2021 22:26	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	35.7		1.61	4.00	1	09/09/2021 20:18	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	105		0.274	4.00	1	09/09/2021 20:18	<a href="#">WG1736869</a>
(S) o-Terphenyl	49.5			18.0-148		09/09/2021 20:18	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Acenaphthene	U		0.00209	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Acenaphthylene	U		0.00216	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Chrysene	U		0.00232	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Fluoranthene	U		0.00227	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Fluorene	U		0.00205	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Naphthalene	U		0.00408	0.0200	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Phenanthrene	U		0.00231	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
Pyrene	U		0.00200	0.00600	1	09/10/2021 03:01	<a href="#">WG1736875</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/10/2021 03:01	<a href="#">WG1736875</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/10/2021 03:01	<a href="#">WG1736875</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/10/2021 03:01	<a href="#">WG1736875</a>
(S) p-Terphenyl-d14	85.2			23.0-120		09/10/2021 03:01	<a href="#">WG1736875</a>
(S) Nitrobenzene-d5	79.5			14.0-149		09/10/2021 03:01	<a href="#">WG1736875</a>
(S) 2-Fluorobiphenyl	71.2			34.0-125		09/10/2021 03:01	<a href="#">WG1736875</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.86		1	09/10/2021 18:40	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U	<a href="#">J6</a>	0.255	1.00	1	09/09/2021 18:53	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-04 WG1737193: 8.29 at 20.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	483		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-04 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	195		0.0852	0.500	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Cadmium	0.587		0.0471	0.500	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Copper	20.6		0.400	2.00	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Lead	11.2		0.208	0.500	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Nickel	17.7		0.132	2.00	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Selenium	1.53	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:39	<a href="#">WG1735465</a>
Zinc	52.6		0.832	5.00	1	09/09/2021 21:39	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.260		0.0167	0.200	1	09/10/2021 13:11	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	30.4		0.100	1.00	5	09/09/2021 15:16	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.415		0.0217	0.100	1	09/08/2021 03:16	<a href="#">WG1736018</a>
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		09/08/2021 03:16	<a href="#">WG1736018</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 22:46	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 22:46	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 22:46	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 22:46	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 22:46	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 22:46	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 22:46	<a href="#">WG1735645</a>
(S) Toluene-d8	101			75.0-131		09/06/2021 22:46	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/06/2021 22:46	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		09/06/2021 22:46	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	12.9		1.61	4.00	1	09/09/2021 19:24	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	43.2		0.274	4.00	1	09/09/2021 19:24	<a href="#">WG1736869</a>
(S) o-Terphenyl	33.7			18.0-148		09/09/2021 19:24	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Acenaphthene	U		0.00209	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Acenaphthylene	U		0.00216	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Chrysene	U		0.00232	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Fluoranthene	U		0.00227	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Fluorene	U		0.00205	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Naphthalene	U		0.00408	0.0200	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Phenanthrene	U		0.00231	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
Pyrene	U		0.00200	0.00600	1	09/10/2021 03:21	<a href="#">WG1736875</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/10/2021 03:21	<a href="#">WG1736875</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/10/2021 03:21	<a href="#">WG1736875</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/10/2021 03:21	<a href="#">WG1736875</a>
(S) p-Terphenyl-d14	65.5			23.0-120		09/10/2021 03:21	<a href="#">WG1736875</a>
(S) Nitrobenzene-d5	68.5			14.0-149		09/10/2021 03:21	<a href="#">WG1736875</a>
(S) 2-Fluorobiphenyl	59.6			34.0-125		09/10/2021 03:21	<a href="#">WG1736875</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.42		1	09/10/2021 18:43	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 19:19	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.36	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-05 WG1737193: 8.36 at 20.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	628		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-05 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	178		0.0852	0.500	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Cadmium	0.648		0.0471	0.500	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Copper	19.4		0.400	2.00	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Lead	10.3		0.208	0.500	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Nickel	16.2		0.132	2.00	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Selenium	2.32		0.764	2.00	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:42	<a href="#">WG1735465</a>
Zinc	54.5		0.832	5.00	1	09/09/2021 21:42	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.255		0.0167	0.200	1	09/10/2021 13:14	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	20.4		0.100	1.00	5	09/09/2021 15:20	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.629		0.0217	0.100	1	09/10/2021 13:15	<a href="#">WG1737432</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	101			77.0-120		09/10/2021 13:15	<a href="#">WG1737432</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 23:05	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 23:05	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 23:05	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 23:05	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 23:05	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 23:05	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 23:05	<a href="#">WG1735645</a>
(S) Toluene-d8	100			75.0-131		09/06/2021 23:05	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	98.8			67.0-138		09/06/2021 23:05	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		09/06/2021 23:05	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.83		1.61	4.00	1	09/09/2021 18:30	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	35.5		0.274	4.00	1	09/09/2021 18:30	<a href="#">WG1736869</a>
(S) o-Terphenyl	47.2			18.0-148		09/09/2021 18:30	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 16:50	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 16:50	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 16:50	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 16:50	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	85.0			23.0-120		09/11/2021 16:50	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	81.1			14.0-149		09/11/2021 16:50	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	71.8			34.0-125		09/11/2021 16:50	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.96		1	09/10/2021 18:46	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 19:29	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.31	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-06 WG1737193: 8.31 at 20.4C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	587		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-06 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	154		0.0852	0.500	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Cadmium	0.539		0.0471	0.500	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Copper	17.5		0.400	2.00	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Lead	11.5		0.208	0.500	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Nickel	16.4		0.132	2.00	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Selenium	0.922	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:45	<a href="#">WG1735465</a>
Zinc	52.6		0.832	5.00	1	09/09/2021 21:45	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.387		0.0167	0.200	1	09/10/2021 13:17	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.70		0.100	1.00	5	09/09/2021 12:18	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.462		0.0217	0.100	1	09/13/2021 17:18	<a href="#">WG1738721</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.3			77.0-120		09/13/2021 17:18	<a href="#">WG1738721</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 23:24	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 23:24	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 23:24	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 23:24	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 23:24	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 23:24	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 23:24	<a href="#">WG1735645</a>
(S) Toluene-d8	100			75.0-131		09/06/2021 23:24	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	97.1			67.0-138		09/06/2021 23:24	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		09/06/2021 23:24	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.23		1.61	4.00	1	09/09/2021 18:44	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	23.1		0.274	4.00	1	09/09/2021 18:44	<a href="#">WG1736869</a>
(S) o-Terphenyl	51.2			18.0-148		09/09/2021 18:44	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 17:10	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 17:10	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 17:10	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 17:10	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	80.5			23.0-120		09/11/2021 17:10	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	75.8			14.0-149		09/11/2021 17:10	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	69.2			34.0-125		09/11/2021 17:10	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.20		1	09/10/2021 18:49	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 19:45	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.92	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-07 WG1737193: 7.92 at 20.6C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	3880		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-07 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	145		0.0852	0.500	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Cadmium	0.653		0.0471	0.500	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Copper	20.2		0.400	2.00	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Lead	11.5		0.208	0.500	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Nickel	17.3		0.132	2.00	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Selenium	1.11	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:48	<a href="#">WG1735465</a>
Zinc	77.3		0.832	5.00	1	09/09/2021 21:48	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.672		0.0167	0.200	1	09/10/2021 13:20	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.09		0.100	1.00	5	09/09/2021 12:22	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.701		0.0217	0.100	1	09/10/2021 22:16	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.4			77.0-120		09/10/2021 22:16	<a href="#">WG1737359</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/06/2021 23:43	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/06/2021 23:43	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/06/2021 23:43	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/06/2021 23:43	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/06/2021 23:43	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/06/2021 23:43	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/06/2021 23:43	<a href="#">WG1735645</a>
(S) Toluene-d8	103			75.0-131		09/06/2021 23:43	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	97.2			67.0-138		09/06/2021 23:43	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		09/06/2021 23:43	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.35		1.61	4.00	1	09/09/2021 18:57	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	32.1		0.274	4.00	1	09/09/2021 18:57	<a href="#">WG1736869</a>
(S) o-Terphenyl	42.7			18.0-148		09/09/2021 18:57	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 17:30	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 17:30	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 17:30	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 17:30	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	69.1			23.0-120		09/11/2021 17:30	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	80.5			14.0-149		09/11/2021 17:30	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	65.2			34.0-125		09/11/2021 17:30	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.06		1	09/10/2021 18:51	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 19:50	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.85	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-08 WG1737193: 7.85 at 20.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2330		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-08 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	259		0.0852	0.500	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Cadmium	0.581		0.0471	0.500	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Copper	16.8		0.400	2.00	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Lead	9.69		0.208	0.500	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Nickel	16.2		0.132	2.00	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Selenium	2.61		0.764	2.00	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:51	<a href="#">WG1735465</a>
Zinc	47.9		0.832	5.00	1	09/09/2021 21:51	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.347		0.0167	0.200	1	09/10/2021 13:29	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.52		0.100	1.00	5	09/09/2021 12:25	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.394		0.0217	0.100	1	09/10/2021 22:40	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	89.6			77.0-120		09/10/2021 22:40	<a href="#">WG1737359</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/07/2021 00:02	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/07/2021 00:02	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/07/2021 00:02	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/07/2021 00:02	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/07/2021 00:02	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/07/2021 00:02	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/07/2021 00:02	<a href="#">WG1735645</a>
(S) Toluene-d8	102			75.0-131		09/07/2021 00:02	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/07/2021 00:02	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	88.2			70.0-130		09/07/2021 00:02	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	59.0		1.61	4.00	1	09/09/2021 20:32	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	146		0.274	4.00	1	09/09/2021 20:32	<a href="#">WG1736869</a>
(S) o-Terphenyl	50.6			18.0-148		09/09/2021 20:32	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Phenanthrene	0.00396	U	0.00231	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 20:11	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 20:11	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 20:11	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 20:11	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	115			23.0-120		09/11/2021 20:11	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	106			14.0-149		09/11/2021 20:11	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	94.7			34.0-125		09/11/2021 20:11	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.97		1	09/10/2021 18:54	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 19:55	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.93	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-09 WG1737193: 7.93 at 20.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1110		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-09 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	137		0.0852	0.500	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Cadmium	0.578		0.0471	0.500	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Copper	21.1		0.400	2.00	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Lead	10.8		0.208	0.500	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Nickel	19.1		0.132	2.00	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Selenium	1.89	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:54	<a href="#">WG1735465</a>
Zinc	54.8		0.832	5.00	1	09/09/2021 21:54	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.382		0.0167	0.200	1	09/10/2021 13:32	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.52		0.100	1.00	5	09/09/2021 12:28	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.373		0.0217	0.100	1	09/10/2021 23:03	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	91.9			77.0-120		09/10/2021 23:03	<a href="#">WG1737359</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/07/2021 00:21	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/07/2021 00:21	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/07/2021 00:21	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/07/2021 00:21	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/07/2021 00:21	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/07/2021 00:21	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/07/2021 00:21	<a href="#">WG1735645</a>
(S) Toluene-d8	99.6			75.0-131		09/07/2021 00:21	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/07/2021 00:21	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	91.0			70.0-130		09/07/2021 00:21	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	13.3		1.61	4.00	1	09/09/2021 19:38	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	37.8		0.274	4.00	1	09/09/2021 19:38	<a href="#">WG1736869</a>
(S) o-Terphenyl	37.4			18.0-148		09/09/2021 19:38	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 17:50	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 17:50	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 17:50	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 17:50	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	94.4			23.0-120		09/11/2021 17:50	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	83.0			14.0-149		09/11/2021 17:50	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	77.5			34.0-125		09/11/2021 17:50	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.87		1	09/10/2021 19:02	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 20:00	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-10 WG1737193: 8.29 at 20.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	575		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-10 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	222		0.0852	0.500	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Cadmium	0.551		0.0471	0.500	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Copper	18.4		0.400	2.00	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Lead	9.46		0.208	0.500	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Nickel	17.4		0.132	2.00	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Selenium	2.16		0.764	2.00	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:57	<a href="#">WG1735465</a>
Zinc	52.3		0.832	5.00	1	09/09/2021 21:57	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.206		0.0167	0.200	1	09/10/2021 13:35	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.77		0.100	1.00	5	09/09/2021 12:31	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.344		0.0217	0.100	1	09/10/2021 23:27	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.4			77.0-120		09/10/2021 23:27	<a href="#">WG1737359</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/07/2021 00:40	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/07/2021 00:40	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/07/2021 00:40	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/07/2021 00:40	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/07/2021 00:40	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/07/2021 00:40	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/07/2021 00:40	<a href="#">WG1735645</a>
(S) Toluene-d8	102			75.0-131		09/07/2021 00:40	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	97.6			67.0-138		09/07/2021 00:40	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		09/07/2021 00:40	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	14.4		1.61	4.00	1	09/09/2021 19:51	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	73.3		0.274	4.00	1	09/09/2021 19:51	<a href="#">WG1736869</a>
(S) o-Terphenyl	50.9			18.0-148		09/09/2021 19:51	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 19:51	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 19:51	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 19:51	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 19:51	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	91.4			23.0-120		09/11/2021 19:51	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	75.6			14.0-149		09/11/2021 19:51	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	73.0			34.0-125		09/11/2021 19:51	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.83		1	09/10/2021 19:04	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 20:11	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.38	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-11 WG1737193: 8.38 at 20.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	653		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-11 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	137		0.0852	0.500	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Cadmium	0.513		0.0471	0.500	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Copper	20.6		0.400	2.00	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Lead	8.82		0.208	0.500	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Nickel	16.0		0.132	2.00	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Selenium	1.80	<a href="#">J</a>	0.764	2.00	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 21:59	<a href="#">WG1735465</a>
Zinc	51.5		0.832	5.00	1	09/09/2021 21:59	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.246		0.0167	0.200	1	09/10/2021 13:38	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.47		0.100	1.00	5	09/09/2021 12:35	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.332		0.0217	0.100	1	09/10/2021 23:51	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	90.1			77.0-120		09/10/2021 23:51	<a href="#">WG1737359</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/07/2021 00:59	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/07/2021 00:59	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/07/2021 00:59	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/07/2021 00:59	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/07/2021 00:59	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/07/2021 00:59	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/07/2021 00:59	<a href="#">WG1735645</a>
(S) Toluene-d8	101			75.0-131		09/07/2021 00:59	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/07/2021 00:59	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		09/07/2021 00:59	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.14	J	1.61	4.00	1	09/09/2021 17:36	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	8.21		0.274	4.00	1	09/09/2021 17:36	<a href="#">WG1736869</a>
(S) o-Terphenyl	58.3			18.0-148		09/09/2021 17:36	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 18:10	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 18:10	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 18:10	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 18:10	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	82.6			23.0-120		09/11/2021 18:10	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	77.3			14.0-149		09/11/2021 18:10	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	68.3			34.0-125		09/11/2021 18:10	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.27		1	09/10/2021 19:07	WG1735056

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/09/2021 20:16	<a href="#">WG1736615</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	<a href="#">T8</a>	1	09/09/2021 15:00	<a href="#">WG1737193</a>

## Sample Narrative:

L1399015-12 WG1737193: 8.33 at 20.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	2280		10.0	1	09/09/2021 16:00	<a href="#">WG1737155</a>

## Sample Narrative:

L1399015-12 WG1737155: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	377		0.0852	0.500	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Cadmium	0.578		0.0471	0.500	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Copper	16.7		0.400	2.00	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Lead	8.95		0.208	0.500	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Nickel	15.6		0.132	2.00	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Selenium	1.38	<a href="#">J</a>	0.764	2.00	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Silver	U		0.127	1.00	1	09/09/2021 22:02	<a href="#">WG1735465</a>
Zinc	49.4		0.832	5.00	1	09/09/2021 22:02	<a href="#">WG1735465</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.246		0.0167	0.200	1	09/10/2021 13:40	<a href="#">WG1735054</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.74		0.100	1.00	5	09/09/2021 12:38	<a href="#">WG1735464</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.388		0.0217	0.100	1	09/11/2021 00:15	<a href="#">WG1737359</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	88.8			77.0-120		09/11/2021 00:15	<a href="#">WG1737359</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/07/2021 01:18	<a href="#">WG1735645</a>
Toluene	U		0.00130	0.00500	1	09/07/2021 01:18	<a href="#">WG1735645</a>
Ethylbenzene	U		0.000737	0.00250	1	09/07/2021 01:18	<a href="#">WG1735645</a>
Xylenes, Total	U		0.000880	0.00650	1	09/07/2021 01:18	<a href="#">WG1735645</a>
Naphthalene	U		0.00488	0.0125	1	09/07/2021 01:18	<a href="#">WG1735645</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/07/2021 01:18	<a href="#">WG1735645</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/07/2021 01:18	<a href="#">WG1735645</a>
(S) Toluene-d8	101			75.0-131		09/07/2021 01:18	<a href="#">WG1735645</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/07/2021 01:18	<a href="#">WG1735645</a>
(S) 1,2-Dichloroethane-d4	94.0			70.0-130		09/07/2021 01:18	<a href="#">WG1735645</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.60		1.61	4.00	1	09/09/2021 18:16	<a href="#">WG1736869</a>
C28-C36 Motor Oil Range	17.0		0.274	4.00	1	09/09/2021 18:16	<a href="#">WG1736869</a>
(S) o-Terphenyl	52.8			18.0-148		09/09/2021 18:16	<a href="#">WG1736869</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Acenaphthene	U		0.00209	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Acenaphthylene	U		0.00216	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Chrysene	U		0.00232	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Fluoranthene	U		0.00227	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Fluorene	U		0.00205	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Naphthalene	U		0.00408	0.0200	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Phenanthrene	U		0.00231	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
Pyrene	U		0.00200	0.00600	1	09/11/2021 18:31	<a href="#">WG1737592</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/11/2021 18:31	<a href="#">WG1737592</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/11/2021 18:31	<a href="#">WG1737592</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/11/2021 18:31	<a href="#">WG1737592</a>
(S) p-Terphenyl-d14	97.7			23.0-120		09/11/2021 18:31	<a href="#">WG1737592</a>
(S) Nitrobenzene-d5	85.6			14.0-149		09/11/2021 18:31	<a href="#">WG1737592</a>
(S) 2-Fluorobiphenyl	81.8			34.0-125		09/11/2021 18:31	<a href="#">WG1737592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3702552-1 09/09/21 15:31

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1398561-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1398561-01 09/09/21 15:41 • (DUP) R3702552-3 09/09/21 15:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1399514-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1399514-03 09/09/21 17:51 • (DUP) R3702552-8 09/09/21 17:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	0.468	0.465	1	0.746	⬇	20

Laboratory Control Sample (LCS)

(LCS) R3702552-2 09/09/21 15:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.34	93.4	80.0-120	

L1398972-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1398972-08 09/09/21 16:12 • (MS) R3702552-4 09/09/21 16:18 • (MSD) R3702552-5 09/09/21 16:33

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	1.02	19.1	19.6	90.6	93.1	1	75.0-125			2.55	20

L1398972-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1398972-08 09/09/21 16:12 • (MS) R3702552-6 09/09/21 16:38

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	651	1.02	624	95.8	50	75.0-125	



Method Blank (MB)

(MB) R3702553-1 09/09/21 18:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1399015-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1399015-05 09/09/21 19:19 • (DUP) R3702553-7 09/09/21 19:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1399015-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1399015-10 09/09/21 20:00 • (DUP) R3702553-8 09/09/21 20:05

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3702553-2 09/09/21 18:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1399015-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399015-04 09/09/21 18:53 • (MS) R3702553-3 09/09/21 18:58 • (MSD) R3702553-4 09/09/21 19:03

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	14.0	13.8	70.0	69.2	1	75.0-125	J6	J6	1.06	20

L1399015-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1399015-04 09/09/21 18:53 • (MS) R3702553-5 09/09/21 19:08

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	637	U	614	96.4	50	75.0-125	

L1399131-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1399131-03 09/09/21 15:00 • (DUP) R3702412-3 09/09/21 15:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.46	8.50	1	0.472		1

Sample Narrative:

OS: 8.46 at 21.1C

DUP: 8.5 at 21C

Laboratory Control Sample (LCS)

(LCS) R3702412-1 09/09/21 15:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.03 at 20.9C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3702370-1 09/09/21 16:00

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1399015-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1399015-03 09/09/21 16:00 • (DUP) R3702370-3 09/09/21 16:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	718	699	1	2.68		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1399015-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1399015-08 09/09/21 16:00 • (DUP) R3702370-4 09/09/21 16:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	2330	2350	1	0.856		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3702370-2 09/09/21 16:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	899	888	98.8	85.0-115	

Sample Narrative:

LCS: at 25C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3702802-1 09/09/21 21:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3702802-2 09/09/21 21:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	97.2	97.2	80.0-120	
Cadmium	100	94.4	94.4	80.0-120	
Copper	100	101	101	80.0-120	
Lead	100	96.4	96.4	80.0-120	
Nickel	100	98.3	98.3	80.0-120	
Selenium	100	96.9	96.9	80.0-120	
Silver	20.0	17.0	84.8	80.0-120	
Zinc	100	92.6	92.6	80.0-120	

L1399074-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399074-01 09/09/21 21:12 • (MS) R3702802-5 09/09/21 21:19 • (MSD) R3702802-6 09/09/21 21:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	10600	11500	10600	853	0.000	1	75.0-125	E V	E V	8.09	20
Cadmium	100	U	98.3	95.0	98.3	95.0	1	75.0-125			3.50	20
Copper	100	23.3	133	128	110	104	1	75.0-125			4.20	20
Lead	100	6.78	109	106	102	99.5	1	75.0-125			2.12	20
Nickel	100	8.43	113	111	105	103	1	75.0-125			2.12	20
Selenium	100	0.999	101	98.5	100	97.5	1	75.0-125			2.55	20
Silver	20.0	U	17.7	17.2	88.6	86.0	1	75.0-125			2.97	20
Zinc	100	30.2	121	118	91.0	88.2	1	75.0-125			2.39	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3703025-1 09/10/21 12:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703025-2 09/10/21 12:56 • (LCSD) R3703025-3 09/10/21 12:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	0.922	1.06	92.2	106	80.0-120			14.0	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3702197-1 09/09/21 11:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3702197-2 09/09/21 11:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	92.3	92.3	80.0-120	

L1399074-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399074-01 09/09/21 11:37 • (MS) R3702197-5 09/09/21 11:47 • (MSD) R3702197-6 09/09/21 11:50

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.85	96.2	96.9	92.3	93.0	5	75.0-125			0.707	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3702094-2 09/07/21 17:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3702094-1 09/07/21 16:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.67	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3703132-2 09/10/21 16:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3703132-1 09/10/21 15:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.28	77.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3702871-2 09/10/21 04:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3702871-1 09/10/21 03:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.02	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			103	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3702872-2 09/10/21 04:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3702872-1 09/10/21 03:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.02	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			103	77.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3704130-2 09/13/21 10:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0224	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3704130-1 09/13/21 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.65	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3702145-3 09/06/21 18:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	98.1			67.0-138
(S) 1,2-Dichloroethane-d4	88.8			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3702145-1 09/06/21 17:22 • (LCSD) R3702145-2 09/06/21 17:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.125	0.124	100	99.2	70.0-123			0.803	20
Ethylbenzene	0.125	0.117	0.124	93.6	99.2	74.0-126			5.81	20
Naphthalene	0.125	0.110	0.116	88.0	92.8	59.0-130			5.31	20
Toluene	0.125	0.119	0.119	95.2	95.2	75.0-121			0.000	20
1,2,4-Trimethylbenzene	0.125	0.115	0.118	92.0	94.4	70.0-126			2.58	20
1,3,5-Trimethylbenzene	0.125	0.118	0.123	94.4	98.4	73.0-127			4.15	20
Xylenes, Total	0.375	0.346	0.348	92.3	92.8	72.0-127			0.576	20
(S) Toluene-d8				100	102	75.0-131				
(S) 4-Bromofluorobenzene				96.9	95.6	67.0-138				
(S) 1,2-Dichloroethane-d4				90.7	93.1	70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3702853-1 09/09/21 16:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.343	⬇	0.274	4.00
(S) o-Terphenyl	59.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3702853-2 09/09/21 16:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.4	80.8	50.0-150	
(S) o-Terphenyl			74.8	18.0-148	

L1399015-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399015-11 09/09/21 17:36 • (MS) R3702853-3 09/09/21 17:49 • (MSD) R3702853-4 09/09/21 18:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.0	2.14	32.2	36.9	62.6	72.0	1	50.0-150			13.6	20
(S) o-Terphenyl					54.1	56.1		18.0-148				

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3702783-2 09/09/21 21:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	75.9			14.0-149
(S) 2-Fluorobiphenyl	76.4			34.0-125
(S) p-Terphenyl-d14	99.2			23.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3702783-1 09/09/21 21:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0665	83.1	50.0-126	
Acenaphthene	0.0800	0.0724	90.5	50.0-120	
Acenaphthylene	0.0800	0.0708	88.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0641	80.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0630	78.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0784	98.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0756	94.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0781	97.6	49.0-125	
Chrysene	0.0800	0.0716	89.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0742	92.8	47.0-125	
Fluoranthene	0.0800	0.0691	86.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3702783-1 09/09/21 21:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0690	86.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0699	87.4	46.0-125	
Naphthalene	0.0800	0.0691	86.4	50.0-120	
Phenanthrene	0.0800	0.0714	89.3	47.0-120	
Pyrene	0.0800	0.0728	91.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0689	86.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0674	84.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0714	89.3	50.0-120	
(S) Nitrobenzene-d5			94.4	14.0-149	
(S) 2-Fluorobiphenyl			91.2	34.0-125	
(S) p-Terphenyl-d14			107	23.0-120	

L1398421-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1398421-03 09/09/21 21:40 • (MS) R3702783-3 09/09/21 22:01 • (MSD) R3702783-4 09/09/21 22:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	U	0.0516	0.0583	64.5	72.9	1	10.0-145			12.2	30
Acenaphthene	0.0800	0.107	0.118	0.137	13.8	37.5	1	14.0-127	J6		14.9	27
Acenaphthylene	0.0800	U	0.0896	0.103	112	129	1	21.0-124		J5	13.9	25
Benzo(a)anthracene	0.0800	0.00884	0.0659	0.0758	71.3	83.7	1	10.0-139			14.0	30
Benzo(a)pyrene	0.0800	0.00545	0.0659	0.0744	75.6	86.2	1	10.0-141			12.1	31
Benzo(b)fluoranthene	0.0800	0.00861	0.0739	0.0830	81.6	93.0	1	10.0-140			11.6	36
Benzo(g,h,i)perylene	0.0800	0.00527	0.0705	0.0782	81.5	91.2	1	10.0-140			10.4	33
Benzo(k)fluoranthene	0.0800	0.00294	0.0720	0.0796	86.3	95.8	1	10.0-137			10.0	31
Chrysene	0.0800	0.00473	0.0676	0.0767	78.6	90.0	1	10.0-145			12.6	30
Dibenz(a,h)anthracene	0.0800	U	0.0667	0.0745	83.4	93.1	1	10.0-132			11.0	31
Fluoranthene	0.0800	0.0432	0.0833	0.103	50.1	74.8	1	10.0-153			21.1	33
Fluorene	0.0800	0.114	0.119	0.140	6.25	32.5	1	11.0-130	J6		16.2	29
Indeno(1,2,3-cd)pyrene	0.0800	0.00475	0.0660	0.0742	76.6	86.8	1	10.0-137			11.7	32
Naphthalene	0.0800	0.0690	0.0856	0.125	20.8	70.0	1	10.0-135		J3	37.4	27
Phenanthrene	0.0800	0.115	0.132	0.163	21.2	60.0	1	10.0-144			21.0	31
Pyrene	0.0800	0.258	0.193	0.254	0.000	0.000	1	10.0-148	J6	J6	27.3	35
1-Methylnaphthalene	0.0800	0.362	0.220	0.354	0.000	0.000	1	10.0-142	V	J3 V	46.7	28
2-Methylnaphthalene	0.0800	U	0.0662	0.0910	82.8	114	1	10.0-137		J3	31.6	28
2-Chloronaphthalene	0.0800	U	0.0567	0.0611	70.9	76.4	1	29.0-120			7.47	24
(S) Nitrobenzene-d5					52.2	65.3		14.0-149				
(S) 2-Fluorobiphenyl					90.3	103		34.0-125				
(S) p-Terphenyl-d14					93.3	108		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3703449-2 09/11/21 16:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	87.4			14.0-149
(S) 2-Fluorobiphenyl	84.1			34.0-125
(S) p-Terphenyl-d14	106			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3703449-1 09/11/21 16:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0661	82.6	50.0-126	
Acenaphthene	0.0800	0.0715	89.4	50.0-120	
Acenaphthylene	0.0800	0.0709	88.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0666	83.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0642	80.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0783	97.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0751	93.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0761	95.1	49.0-125	
Chrysene	0.0800	0.0714	89.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0729	91.1	47.0-125	
Fluoranthene	0.0800	0.0676	84.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3703449-1 09/11/21 16:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0675	84.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0720	90.0	46.0-125	
Naphthalene	0.0800	0.0682	85.3	50.0-120	
Phenanthrene	0.0800	0.0705	88.1	47.0-120	
Pyrene	0.0800	0.0764	95.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0681	85.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0665	83.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0701	87.6	50.0-120	
(S) Nitrobenzene-d5			101	14.0-149	
(S) 2-Fluorobiphenyl			95.7	34.0-125	
(S) p-Terphenyl-d14			117	23.0-120	

L1399201-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1399201-06 09/11/21 18:51 • (MS) R3703449-3 09/11/21 19:11 • (MSD) R3703449-4 09/11/21 19:31

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0760	U	0.0601	0.0635	79.1	81.0	1	10.0-145			5.50	30
Acenaphthene	0.0760	U	0.0644	0.0685	84.7	87.4	1	14.0-127			6.17	27
Acenaphthylene	0.0760	U	0.0624	0.0671	82.1	85.6	1	21.0-124			7.26	25
Benzo(a)anthracene	0.0760	U	0.0604	0.0621	79.5	79.2	1	10.0-139			2.78	30
Benzo(a)pyrene	0.0760	U	0.0630	0.0650	82.9	82.9	1	10.0-141			3.12	31
Benzo(b)fluoranthene	0.0760	U	0.0707	0.0717	93.0	91.5	1	10.0-140			1.40	36
Benzo(g,h,i)perylene	0.0760	U	0.0683	0.0687	89.9	87.6	1	10.0-140			0.584	33
Benzo(k)fluoranthene	0.0760	U	0.0681	0.0699	89.6	89.2	1	10.0-137			2.61	31
Chrysene	0.0760	U	0.0653	0.0680	85.9	86.7	1	10.0-145			4.05	30
Dibenz(a,h)anthracene	0.0760	U	0.0665	0.0682	87.5	87.0	1	10.0-132			2.52	31
Fluoranthene	0.0760	U	0.0618	0.0660	81.3	84.2	1	10.0-153			6.57	33
Fluorene	0.0760	U	0.0613	0.0655	80.7	83.5	1	11.0-130			6.62	29
Indeno(1,2,3-cd)pyrene	0.0760	U	0.0642	0.0652	84.5	83.2	1	10.0-137			1.55	32
Naphthalene	0.0760	U	0.0636	0.0937	83.7	120	1	10.0-135	J3		38.3	27
Phenanthrene	0.0760	U	0.0632	0.0687	83.2	87.6	1	10.0-144			8.34	31
Pyrene	0.0760	U	0.0705	0.0728	92.8	92.9	1	10.0-148			3.21	35
1-Methylnaphthalene	0.0760	U	0.0633	0.0897	83.3	114	1	10.0-142	J3		34.5	28
2-Methylnaphthalene	0.0760	U	0.0616	0.114	81.1	145	1	10.0-137	J3 J5		59.7	28
2-Chloronaphthalene	0.0760	U	0.0627	0.0665	82.4	84.8	1	29.0-120			5.88	24
(S) Nitrobenzene-d5					98.9	104		14.0-149				
(S) 2-Fluorobiphenyl					91.4	91.6		34.0-125				
(S) p-Terphenyl-d14					111	111		23.0-120				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

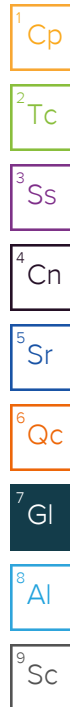
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

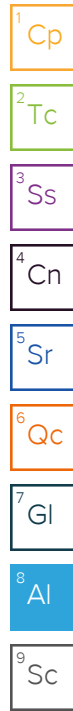
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		



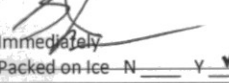
<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





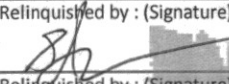

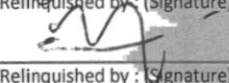
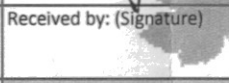
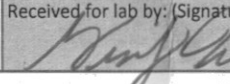
Company Name/Address: <b>Entrada Consulting Group</b> 330 Grand Ave Grand Junction, CO 81501				Billing Information: <b>Stuart Hall</b> 330 Grand Ave Grand Junction, CO 81501				Analysis / Container / Preservative						Chain of Custody Page <u>1</u> of <u>2</u>  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Report to: <b>Stuart Hall</b>				Email To: <b>shall@entradainc.com</b>											
Project Description: <b>Baker Canyon Spill</b>				City/State Collected: <b>De Beque, CO</b>											
Phone: <b>970-640-0568</b> Fax:		Client Project #		Lab Project #											
Collected by (print): <b>R. Jensen</b>		Site/Facility ID #		P.O. #											
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day .....200% <input type="checkbox"/> Next Day .....100% <input type="checkbox"/> Two Day .....50% <input type="checkbox"/> Three Day .....25%		Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs									
Immediately Packed on Ice <input type="checkbox"/> N <input checked="" type="checkbox"/> Y															

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Table 915 GRO/DRO/ORO	Table 915 Metals	Table 915 PAH's	Table 915 VOC's	Table 915 pH, SPCON, SAR	Table 915 Boron							
20210902-Baker Canyon-MW6 (5-7)	Grab	SS	5-7	9/2/21	0845	3													
20210902-Baker Canyon-MW6 (10-12)			10-12		0930	3													-01
20210902-Baker Canyon-MW6 (15-17)			15-17		1000	3													-02
20210902-Baker Canyon-MW6 (20-22)			20-22		1030	3													-03
20210902-Baker Canyon-MW6 (25-27)			25-27		1100	3													-04
20210902-Baker Canyon-MW6 (30-32)			30-32		1145	3													-05
20210902-Baker Canyon-MW7 (5-7)			5-7		1345	3													-06
20210902-Baker Canyon-MW7 (10-12)			10-12		1400	3													-07
20210902-Baker Canyon-MW7 (15-17)			15-17		1425	3													-08
20210902-Baker Canyon-MW7 (20-22)			20-22		1445	3													-09
																			-10

\* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) 		Date: <b>9/2/21</b>	Time: <b>1715</b>	Received by: (Signature) 		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Hold #	
Relinquished by: (Signature) 		Date: <b>9/2/21</b>	Time: <b>1800</b>	Received by: (Signature) 		Temp: <b>40.4</b> °C Bottles Received: <b>36</b>		Condition: (lab use only)	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: <b>9/3/21</b> Time: <b>9:30</b>		COC Seal Intact: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA pH Checked: NCF:	

501012323054/501012323065

50101232 3054 / 50101232 3045

## Entrada Consulting Group

Sample Delivery Group: L1400478  
Samples Received: 09/08/2021  
Project Number:  
Description: Baker Canyon Spill  
  
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:

*Chris Ward*

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

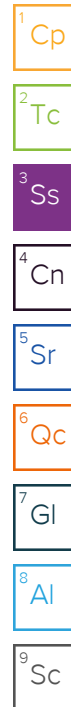


# SAMPLE SUMMARY

## 20210903-BAKERCANYON-MW8 (5-7) L1400478-01 Solid

Collected by R. Johnson Collected date/time 09/03/21 08:00 Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:44	09/13/21 19:44	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 17:46	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 16:37	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:03	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 17:29	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 16:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 10:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 17:33	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738622	1	09/12/21 06:02	09/13/21 03:23	AAT	Mt. Juliet, TN



## 20210903-BAKERCANYON-MW8 (10-12) L1400478-02 Solid

Collected by R. Johnson Collected date/time 09/03/21 08:20 Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:47	09/13/21 19:47	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 17:51	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 16:51	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:06	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 17:47	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 17:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 10:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 17:46	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 19:41	AAT	Mt. Juliet, TN

## 20210903-BAKERCANYON-MW8 (15-17) L1400478-03 Solid

Collected by R. Johnson Collected date/time 09/03/21 08:50 Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:49	09/13/21 19:49	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 18:07	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 16:54	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:09	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 17:50	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 17:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 11:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 17:59	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 19:58	AAT	Mt. Juliet, TN

## 20210903-BAKERCANYON-MW8 (20-22) L1400478-04 Solid

Collected by R. Johnson Collected date/time 09/03/21 09:15 Received date/time 09/08/21 09:15

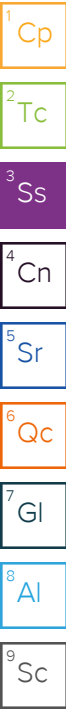
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:52	09/13/21 19:52	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 18:33	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 16:57	EL	Mt. Juliet, TN

# SAMPLE SUMMARY

## 20210903-BAKERCANYON-MW8 (20-22) L1400478-04 Solid

Collected by R. Johnson  
Collected date/time 09/03/21 09:15  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:11	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 17:53	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 18:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 11:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 18:13	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 20:15	AAT	Mt. Juliet, TN



## 20210903-BAKERCANYON-MW8 (25-27) L1400478-05 Solid

Collected by R. Johnson  
Collected date/time 09/03/21 09:40  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:55	09/13/21 19:55	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 18:43	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 17:05	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:14	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 18:05	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 18:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 11:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 18:26	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 20:33	AAT	Mt. Juliet, TN

## 20210903-BAKERCANYON-MW8 (30-32) L1400478-06 Solid

Collected by R. Johnson  
Collected date/time 09/03/21 10:00  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 19:58	09/13/21 19:58	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 18:48	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 17:08	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:17	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 18:08	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 18:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 11:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 18:39	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 20:50	AAT	Mt. Juliet, TN

## 20210903-BAKERCANYON-MW9 (10-12) L1400478-07 Solid

Collected by R. Johnson  
Collected date/time 09/03/21 12:35  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 20:00	09/13/21 20:00	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 18:53	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 17:11	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:19	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 18:12	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 19:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 12:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 21:04	TJD	Mt. Juliet, TN

# SAMPLE SUMMARY

20210903-BAKERCANYON-MW9 (10-12) L1400478-07 Solid

Collected by  
R. Johnson

Collected date/time  
09/03/21 12:35

Received date/time  
09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 21:07	AAT	Mt. Juliet, TN

20210903-BAKERCANYON-MW9 (15-17) L1400478-08 Solid

Collected by  
R. Johnson

Collected date/time  
09/03/21 13:10

Received date/time  
09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1737266	1	09/13/21 20:03	09/13/21 20:03	EL	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1739053	1	09/13/21 00:46	09/13/21 19:09	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1738412	1	09/10/21 16:31	09/10/21 20:10	WOS	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1737347	1	09/09/21 12:00	09/09/21 16:00	BMD	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1737261	1	09/09/21 08:15	09/11/21 17:14	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1737268	1	09/11/21 13:14	09/14/21 12:27	KMG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1737263	5	09/09/21 08:16	09/09/21 18:15	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1739578	1	09/09/21 08:44	09/14/21 19:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738094	1	09/09/21 08:44	09/10/21 15:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1739357	1	09/14/21 05:58	09/14/21 21:17	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1738621	1	09/12/21 05:45	09/12/21 23:44	AAT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager





## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.904		1	09/13/2021 19:44	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 17:46	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-01 WG1738412: 8.12 at 21.5C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	559		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-01 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	159	<a href="#">O1</a>	0.0852	0.500	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Cadmium	0.650		0.0471	0.500	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Copper	20.4		0.400	2.00	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Lead	11.0		0.208	0.500	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Nickel	17.1		0.132	2.00	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Selenium	1.53	<a href="#">J</a>	0.764	2.00	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 16:37	<a href="#">WG1737261</a>
Zinc	59.5	<a href="#">O1</a>	0.832	5.00	1	09/11/2021 16:37	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	1.10		0.0167	0.200	1	09/14/2021 12:03	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.29		0.100	1.00	5	09/09/2021 17:29	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.245		0.0217	0.100	1	09/14/2021 16:58	<a href="#">WG1739578</a>
(S) a,a,a-Trifluorotoluene(FID)	71.0	<a href="#">J2</a>		77.0-120		09/14/2021 16:58	<a href="#">WG1739578</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 10:23	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 10:23	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 10:23	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 10:23	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 10:23	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 10:23	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 10:23	<a href="#">WG1738094</a>
(S) Toluene-d8	110			75.0-131		09/10/2021 10:23	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/10/2021 10:23	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		09/10/2021 10:23	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	09/14/2021 17:33	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	0.595	J	0.274	4.00	1	09/14/2021 17:33	<a href="#">WG1739357</a>
(S) o-Terphenyl	64.7			18.0-148		09/14/2021 17:33	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Acenaphthene	U		0.00209	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Acenaphthylene	U		0.00216	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Chrysene	U		0.00232	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Fluoranthene	U		0.00227	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Fluorene	U		0.00205	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Naphthalene	U		0.00408	0.0200	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Phenanthrene	U		0.00231	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
Pyrene	U		0.00200	0.00600	1	09/13/2021 03:23	<a href="#">WG1738622</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/13/2021 03:23	<a href="#">WG1738622</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/13/2021 03:23	<a href="#">WG1738622</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/13/2021 03:23	<a href="#">WG1738622</a>
(S) p-Terphenyl-d14	76.8			23.0-120		09/13/2021 03:23	<a href="#">WG1738622</a>
(S) Nitrobenzene-d5	65.7			14.0-149		09/13/2021 03:23	<a href="#">WG1738622</a>
(S) 2-Fluorobiphenyl	69.0			34.0-125		09/13/2021 03:23	<a href="#">WG1738622</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.780		1	09/13/2021 19:47	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 17:51	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.18	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-02 WG1738412: 8.18 at 21.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	791		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-02 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	181		0.0852	0.500	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Cadmium	0.623		0.0471	0.500	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Copper	17.5		0.400	2.00	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Lead	10.0		0.208	0.500	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Nickel	18.5		0.132	2.00	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Selenium	2.01		0.764	2.00	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 16:51	<a href="#">WG1737261</a>
Zinc	57.6		0.832	5.00	1	09/11/2021 16:51	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

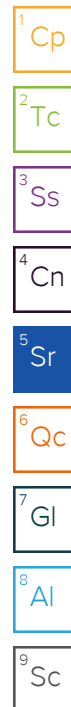
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.339		0.0167	0.200	1	09/14/2021 12:06	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.71		0.100	1.00	5	09/09/2021 17:47	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.214		0.0217	0.100	1	09/14/2021 17:21	<a href="#">WG1739578</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	80.2			77.0-120		09/14/2021 17:21	<a href="#">WG1739578</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 10:42	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 10:42	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 10:42	<a href="#">WG1738094</a>
Xylenes, Total	0.000925	<u>J</u>	0.000880	0.00650	1	09/10/2021 10:42	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 10:42	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 10:42	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 10:42	<a href="#">WG1738094</a>
(S) Toluene-d8	112			75.0-131		09/10/2021 10:42	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/10/2021 10:42	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		09/10/2021 10:42	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.33	<u>J</u>	1.61	4.00	1	09/14/2021 17:46	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	1.03	<u>J</u>	0.274	4.00	1	09/14/2021 17:46	<a href="#">WG1739357</a>
(S) o-Terphenyl	70.5			18.0-148		09/14/2021 17:46	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 19:41	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 19:41	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 19:41	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 19:41	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	84.1			23.0-120		09/12/2021 19:41	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	88.4			14.0-149		09/12/2021 19:41	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	71.7			34.0-125		09/12/2021 19:41	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.41		1	09/13/2021 19:49	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U	J6	0.255	1.00	1	09/13/2021 18:07	WG1739053

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	T8	1	09/10/2021 20:10	WG1738412

## Sample Narrative:

L1400478-03 WG1738412: 8.03 at 21C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	1280		10.0	1	09/09/2021 16:00	WG1737347

## Sample Narrative:

L1400478-03 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	245		0.0852	0.500	1	09/11/2021 16:54	WG1737261
Cadmium	0.558		0.0471	0.500	1	09/11/2021 16:54	WG1737261
Copper	18.8		0.400	2.00	1	09/11/2021 16:54	WG1737261
Lead	15.7		0.208	0.500	1	09/11/2021 16:54	WG1737261
Nickel	18.3		0.132	2.00	1	09/11/2021 16:54	WG1737261
Selenium	1.64	J	0.764	2.00	1	09/11/2021 16:54	WG1737261
Silver	U		0.127	1.00	1	09/11/2021 16:54	WG1737261
Zinc	54.3		0.832	5.00	1	09/11/2021 16:54	WG1737261

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.505		0.0167	0.200	1	09/14/2021 12:09	WG1737268

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	12.6		0.100	1.00	5	09/09/2021 17:50	WG1737263

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.186		0.0217	0.100	1	09/14/2021 17:43	WG1739578
(S) a,a,a-Trifluorotoluene(FID)	83.6			77.0-120		09/14/2021 17:43	WG1739578

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 11:01	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 11:01	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 11:01	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 11:01	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 11:01	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 11:01	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 11:01	<a href="#">WG1738094</a>
(S) Toluene-d8	113			75.0-131		09/10/2021 11:01	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/10/2021 11:01	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		09/10/2021 11:01	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.89	<u>J</u>	1.61	4.00	1	09/14/2021 17:59	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	U		0.274	4.00	1	09/14/2021 17:59	<a href="#">WG1739357</a>
(S) o-Terphenyl	57.1			18.0-148		09/14/2021 17:59	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 19:58	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 19:58	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 19:58	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 19:58	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	81.6			23.0-120		09/12/2021 19:58	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	82.1			14.0-149		09/12/2021 19:58	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	68.6			34.0-125		09/12/2021 19:58	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.62		1	09/13/2021 19:52	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 18:33	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.26	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-04 WG1738412: 8.26 at 21.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	754		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-04 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	163		0.0852	0.500	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Cadmium	0.709		0.0471	0.500	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Copper	16.4		0.400	2.00	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Lead	10.0		0.208	0.500	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Nickel	16.8		0.132	2.00	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Selenium	1.59	<a href="#">J</a>	0.764	2.00	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 16:57	<a href="#">WG1737261</a>
Zinc	55.2		0.832	5.00	1	09/11/2021 16:57	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.279		0.0167	0.200	1	09/14/2021 12:11	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	9.86		0.100	1.00	5	09/09/2021 17:53	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.274		0.0217	0.100	1	09/14/2021 18:04	<a href="#">WG1739578</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	81.0			77.0-120		09/14/2021 18:04	<a href="#">WG1739578</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 11:20	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 11:20	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 11:20	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 11:20	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 11:20	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 11:20	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 11:20	<a href="#">WG1738094</a>
(S) Toluene-d8	112			75.0-131		09/10/2021 11:20	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/10/2021 11:20	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		09/10/2021 11:20	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.66	<u>U</u>	1.61	4.00	1	09/14/2021 18:13	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	0.859	<u>U</u>	0.274	4.00	1	09/14/2021 18:13	<a href="#">WG1739357</a>
(S) o-Terphenyl	60.1			18.0-148		09/14/2021 18:13	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 20:15	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 20:15	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 20:15	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 20:15	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	78.2			23.0-120		09/12/2021 20:15	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	82.3			14.0-149		09/12/2021 20:15	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	68.5			34.0-125		09/12/2021 20:15	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.21		1	09/13/2021 19:55	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 18:43	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.55	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-05 WG1738412: 8.55 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	578		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-05 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	172		0.0852	0.500	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Cadmium	0.509		0.0471	0.500	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Copper	17.7		0.400	2.00	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Lead	9.65		0.208	0.500	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Nickel	15.2		0.132	2.00	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Selenium	1.06	<a href="#">J</a>	0.764	2.00	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 17:05	<a href="#">WG1737261</a>
Zinc	55.5		0.832	5.00	1	09/11/2021 17:05	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.253		0.0167	0.200	1	09/14/2021 12:14	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.79		0.100	1.00	5	09/09/2021 18:05	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.300		0.0217	0.100	1	09/14/2021 18:27	<a href="#">WG1739578</a>
(S) a,a,a-Trifluorotoluene(FID)	79.9			77.0-120		09/14/2021 18:27	<a href="#">WG1739578</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 11:39	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 11:39	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 11:39	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 11:39	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 11:39	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 11:39	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 11:39	<a href="#">WG1738094</a>
(S) Toluene-d8	112			75.0-131		09/10/2021 11:39	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	104			67.0-138		09/10/2021 11:39	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		09/10/2021 11:39	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.16	<u>U</u>	1.61	4.00	1	09/14/2021 18:26	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	0.965	<u>U</u>	0.274	4.00	1	09/14/2021 18:26	<a href="#">WG1739357</a>
(S) o-Terphenyl	71.2			18.0-148		09/14/2021 18:26	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 20:33	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 20:33	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 20:33	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 20:33	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	76.7			23.0-120		09/12/2021 20:33	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	76.7			14.0-149		09/12/2021 20:33	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	63.7			34.0-125		09/12/2021 20:33	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.43		1	09/13/2021 19:58	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 18:48	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.60	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-06 WG1738412: 8.6 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	577		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-06 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	148		0.0852	0.500	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Cadmium	0.467	<a href="#">J</a>	0.0471	0.500	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Copper	16.9		0.400	2.00	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Lead	8.81		0.208	0.500	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Nickel	14.5		0.132	2.00	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Selenium	2.68		0.764	2.00	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 17:08	<a href="#">WG1737261</a>
Zinc	52.1		0.832	5.00	1	09/11/2021 17:08	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.237		0.0167	0.200	1	09/14/2021 12:17	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.39		0.100	1.00	5	09/09/2021 18:08	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.721		0.0217	0.100	1	09/14/2021 18:49	<a href="#">WG1739578</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	91.4			77.0-120		09/14/2021 18:49	<a href="#">WG1739578</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 11:57	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 11:57	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 11:57	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 11:57	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 11:57	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 11:57	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 11:57	<a href="#">WG1738094</a>
(S) Toluene-d8	110			75.0-131		09/10/2021 11:57	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/10/2021 11:57	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		09/10/2021 11:57	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	09/14/2021 18:39	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	U		0.274	4.00	1	09/14/2021 18:39	<a href="#">WG1739357</a>
(S) o-Terphenyl	65.3			18.0-148		09/14/2021 18:39	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 20:50	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 20:50	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 20:50	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 20:50	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	88.6			23.0-120		09/12/2021 20:50	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	88.9			14.0-149		09/12/2021 20:50	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	74.2			34.0-125		09/12/2021 20:50	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.80		1	09/13/2021 20:00	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 18:53	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.51	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-07 WG1738412: 8.51 at 21.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	266		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-07 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	269		0.0852	0.500	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Cadmium	0.582		0.0471	0.500	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Copper	18.2		0.400	2.00	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Lead	12.0		0.208	0.500	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Nickel	16.8		0.132	2.00	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Selenium	1.58	<a href="#">J</a>	0.764	2.00	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 17:11	<a href="#">WG1737261</a>
Zinc	47.0		0.832	5.00	1	09/11/2021 17:11	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.284		0.0167	0.200	1	09/14/2021 12:19	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	10.7		0.100	1.00	5	09/09/2021 18:12	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.310		0.0217	0.100	1	09/14/2021 19:11	<a href="#">WG1739578</a>
(S) a,a,a-Trifluorotoluene(FID)	79.4			77.0-120		09/14/2021 19:11	<a href="#">WG1739578</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 12:16	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 12:16	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 12:16	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 12:16	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 12:16	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 12:16	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 12:16	<a href="#">WG1738094</a>
(S) Toluene-d8	113			75.0-131		09/10/2021 12:16	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/10/2021 12:16	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		09/10/2021 12:16	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.62	U	1.61	4.00	1	09/14/2021 21:04	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	1.78	U	0.274	4.00	1	09/14/2021 21:04	<a href="#">WG1739357</a>
(S) o-Terphenyl	60.3			18.0-148		09/14/2021 21:04	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 21:07	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 21:07	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 21:07	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 21:07	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	69.7			23.0-120		09/12/2021 21:07	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	69.7			14.0-149		09/12/2021 21:07	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	58.5			34.0-125		09/12/2021 21:07	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.74		1	09/13/2021 20:03	WG1737266

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	09/13/2021 19:09	<a href="#">WG1739053</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	<a href="#">T8</a>	1	09/10/2021 20:10	<a href="#">WG1738412</a>

## Sample Narrative:

L1400478-08 WG1738412: 8.33 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	363		10.0	1	09/09/2021 16:00	<a href="#">WG1737347</a>

## Sample Narrative:

L1400478-08 WG1737347: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	183		0.0852	0.500	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Cadmium	0.640		0.0471	0.500	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Copper	18.6		0.400	2.00	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Lead	9.84		0.208	0.500	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Nickel	18.0		0.132	2.00	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Selenium	1.91	<a href="#">J</a>	0.764	2.00	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Silver	U		0.127	1.00	1	09/11/2021 17:14	<a href="#">WG1737261</a>
Zinc	58.8		0.832	5.00	1	09/11/2021 17:14	<a href="#">WG1737261</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

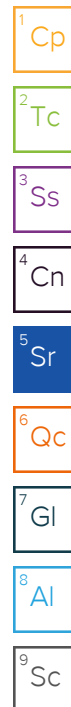
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.423		0.0167	0.200	1	09/14/2021 12:27	<a href="#">WG1737268</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.86		0.100	1.00	5	09/09/2021 18:15	<a href="#">WG1737263</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.384		0.0217	0.100	1	09/14/2021 19:33	<a href="#">WG1739578</a>
(S) a,a,a-Trifluorotoluene(FID)	76.1	<a href="#">J2</a>		77.0-120		09/14/2021 19:33	<a href="#">WG1739578</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	09/10/2021 15:42	<a href="#">WG1738094</a>
Toluene	U		0.00130	0.00500	1	09/10/2021 15:42	<a href="#">WG1738094</a>
Ethylbenzene	U		0.000737	0.00250	1	09/10/2021 15:42	<a href="#">WG1738094</a>
Xylenes, Total	U		0.000880	0.00650	1	09/10/2021 15:42	<a href="#">WG1738094</a>
Naphthalene	U		0.00488	0.0125	1	09/10/2021 15:42	<a href="#">WG1738094</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	09/10/2021 15:42	<a href="#">WG1738094</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	09/10/2021 15:42	<a href="#">WG1738094</a>
(S) Toluene-d8	112			75.0-131		09/10/2021 15:42	<a href="#">WG1738094</a>
(S) 4-Bromofluorobenzene	104			67.0-138		09/10/2021 15:42	<a href="#">WG1738094</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		09/10/2021 15:42	<a href="#">WG1738094</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.93		1.61	4.00	1	09/14/2021 21:17	<a href="#">WG1739357</a>
C28-C36 Motor Oil Range	11.8		0.274	4.00	1	09/14/2021 21:17	<a href="#">WG1739357</a>
(S) o-Terphenyl	56.2			18.0-148		09/14/2021 21:17	<a href="#">WG1739357</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Acenaphthene	U		0.00209	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Acenaphthylene	U		0.00216	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Chrysene	U		0.00232	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Fluoranthene	U		0.00227	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Fluorene	U		0.00205	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Naphthalene	U		0.00408	0.0200	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Phenanthrene	U		0.00231	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
Pyrene	U		0.00200	0.00600	1	09/12/2021 23:44	<a href="#">WG1738621</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	09/12/2021 23:44	<a href="#">WG1738621</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	09/12/2021 23:44	<a href="#">WG1738621</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	09/12/2021 23:44	<a href="#">WG1738621</a>
(S) p-Terphenyl-d14	80.3			23.0-120		09/12/2021 23:44	<a href="#">WG1738621</a>
(S) Nitrobenzene-d5	82.4			14.0-149		09/12/2021 23:44	<a href="#">WG1738621</a>
(S) 2-Fluorobiphenyl	67.8			34.0-125		09/12/2021 23:44	<a href="#">WG1738621</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3704153-1 09/13/21 16:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexavalent Chromium	U		0.255	1.00

L1400478-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1400478-04 09/13/21 18:33 • (DUP) R3704153-7 09/13/21 18:38

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium	U	U	1	0.000		20

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3704153-8 09/13/21 19:30

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Hexavalent Chromium		U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3704153-2 09/13/21 16:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Hexavalent Chromium	10.0	9.26	92.6	80.0-120	

L1400478-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400478-03 09/13/21 18:07 • (MS) R3704153-3 09/13/21 18:12 • (MSD) R3704153-4 09/13/21 18:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexavalent Chromium	20.0	U	13.7	13.9	68.7	69.7	1	75.0-125	J6	J6	1.50	20

L1400478-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1400478-03 09/13/21 18:07 • (MS) R3704153-5 09/13/21 18:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Hexavalent Chromium	638	U	620	97.2	50	75.0-125	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1400087-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1400087-04 09/10/21 20:10 • (DUP) R3703042-2 09/10/21 20:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	6.30	6.27	1	0.477		1

Sample Narrative:

OS: 6.3 at 22.5C

DUP: 6.27 at 21.7C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1400494-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1400494-04 09/10/21 20:10 • (DUP) R3703042-3 09/10/21 20:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	9.07	9.09	1	0.220		1

Sample Narrative:

OS: 9.07 at 21C

DUP: 9.09 at 21C

Laboratory Control Sample (LCS)

(LCS) R3703042-1 09/10/21 20:10

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 22.7C

Method Blank (MB)

(MB) R3702391-1 09/09/21 16:00

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1400478-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1400478-05 09/09/21 16:00 • (DUP) R3702391-3 09/09/21 16:00

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	578	552	1	4.60		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3702391-2 09/09/21 16:00

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	899	891	99.1	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3703269-1 09/11/21 16:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3703269-2 09/11/21 16:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	106	106	80.0-120	
Cadmium	100	99.8	99.8	80.0-120	
Copper	100	97.6	97.6	80.0-120	
Lead	100	100	100	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	99.6	99.6	80.0-120	
Silver	20.0	17.1	85.3	80.0-120	
Zinc	100	100	100	80.0-120	

L1400478-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400478-01 09/11/21 16:37 • (MS) R3703269-5 09/11/21 16:45 • (MSD) R3703269-6 09/11/21 16:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	159	254	253	94.6	93.7	1	75.0-125			0.381	20
Cadmium	100	0.650	95.2	99.0	94.5	98.4	1	75.0-125			3.95	20
Copper	100	20.4	114	113	93.9	92.9	1	75.0-125			0.915	20
Lead	100	11.0	111	114	100	103	1	75.0-125			2.54	20
Nickel	100	17.1	119	119	102	102	1	75.0-125			0.344	20
Selenium	100	1.53	95.8	99.7	94.3	98.2	1	75.0-125			4.00	20
Silver	20.0	U	16.7	17.3	83.7	86.7	1	75.0-125			3.50	20
Zinc	100	59.5	146	147	86.8	87.4	1	75.0-125			0.452	20

Method Blank (MB)

(MB) R3704171-1 09/14/21 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	0.0171	⬇	0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704171-2 09/14/21 11:58 • (LCSD) R3704171-3 09/14/21 12:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.01	1.03	101	103	80.0-120			1.83	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3702493-1 09/09/21 17:22

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3702493-2 09/09/21 17:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	95.4	95.4	80.0-120	

L1400478-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400478-01 09/09/21 17:29 • (MS) R3702493-5 09/09/21 17:40 • (MSD) R3702493-6 09/09/21 17:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	8.29	94.3	96.3	86.0	88.0	5	75.0-125			2.03	20

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3704685-2 09/14/21 12:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3704685-1 09/14/21 12:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.56	82.9	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			111	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3703743-3 09/10/21 08:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3703743-1 09/10/21 06:38 • (LCSD) R3703743-2 09/10/21 06:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.113	0.104	90.4	83.2	70.0-123			8.29	20
Ethylbenzene	0.125	0.124	0.117	99.2	93.6	74.0-126			5.81	20
Naphthalene	0.125	0.143	0.148	114	118	59.0-130			3.44	20
Toluene	0.125	0.125	0.113	100	90.4	75.0-121			10.1	20
1,2,4-Trimethylbenzene	0.125	0.126	0.119	101	95.2	70.0-126			5.71	20
1,3,5-Trimethylbenzene	0.125	0.131	0.121	105	96.8	73.0-127			7.94	20
Xylenes, Total	0.375	0.381	0.355	102	94.7	72.0-127			7.07	20
(S) Toluene-d8				107	109	75.0-131				
(S) 4-Bromofluorobenzene				105	107	67.0-138				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

L1400478-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400478-08 09/10/21 15:42 • (MS) R3703743-4 09/10/21 16:00 • (MSD) R3703743-5 09/10/21 16:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	U	0.0810	0.0899	64.8	71.9	1	10.0-149			10.4	37
Ethylbenzene	0.125	U	0.101	0.112	80.8	89.6	1	10.0-160			10.3	38
Naphthalene	0.125	U	0.129	0.125	103	100	1	10.0-160			3.15	36
Toluene	0.125	U	0.0948	0.109	75.8	87.2	1	10.0-156			13.9	38
1,2,4-Trimethylbenzene	0.125	U	0.107	0.118	85.6	94.4	1	10.0-160			9.78	36
1,3,5-Trimethylbenzene	0.125	U	0.109	0.123	87.2	98.4	1	10.0-160			12.1	38
Xylenes, Total	0.375	U	0.291	0.333	77.6	88.8	1	10.0-160			13.5	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1400478-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400478-08 09/10/21 15:42 • (MS) R3703743-4 09/10/21 16:00 • (MSD) R3703743-5 09/10/21 16:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					109	110		75.0-131				
(S) 4-Bromofluorobenzene					103	104		67.0-138				
(S) 1,2-Dichloroethane-d4					97.2	93.4		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3704355-1 09/14/21 16:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	70.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3704355-2 09/14/21 16:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.6	89.2	50.0-150	
(S) o-Terphenyl			79.4	18.0-148	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3703921-2 09/12/21 18:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	88.1			14.0-149
(S) 2-Fluorobiphenyl	75.5			34.0-125
(S) p-Terphenyl-d14	90.6			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3703921-1 09/12/21 18:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0647	80.9	50.0-126	
Acenaphthene	0.0800	0.0612	76.5	50.0-120	
Acenaphthylene	0.0800	0.0681	85.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0645	80.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0548	68.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0565	70.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0562	70.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0583	72.9	49.0-125	
Chrysene	0.0800	0.0618	77.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0570	71.3	47.0-125	
Fluoranthene	0.0800	0.0603	75.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3703921-1 09/12/21 18:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0593	74.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0592	74.0	46.0-125	
Naphthalene	0.0800	0.0603	75.4	50.0-120	
Phenanthrene	0.0800	0.0619	77.4	47.0-120	
Pyrene	0.0800	0.0631	78.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0571	71.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0549	68.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0584	73.0	50.0-120	
(S) Nitrobenzene-d5			90.6	14.0-149	
(S) 2-Fluorobiphenyl			74.3	34.0-125	
(S) p-Terphenyl-d14			87.1	23.0-120	

L1400554-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400554-04 09/12/21 18:49 • (MS) R3703921-3 09/12/21 19:06 • (MSD) R3703921-4 09/12/21 19:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0784	U	0.0496	0.0548	63.3	69.9	1	10.0-145			9.96	30
Acenaphthene	0.0784	U	0.0550	0.0606	70.2	77.3	1	14.0-127			9.69	27
Acenaphthylene	0.0784	U	0.0566	0.0618	72.2	78.8	1	21.0-124			8.78	25
Benzo(a)anthracene	0.0784	U	0.0540	0.0587	68.9	74.9	1	10.0-139			8.34	30
Benzo(a)pyrene	0.0784	U	0.0506	0.0543	64.5	69.3	1	10.0-141			7.05	31
Benzo(b)fluoranthene	0.0784	U	0.0476	0.0519	60.7	66.2	1	10.0-140			8.64	36
Benzo(g,h,i)perylene	0.0784	U	0.0474	0.0508	60.5	64.8	1	10.0-140			6.92	33
Benzo(k)fluoranthene	0.0784	U	0.0483	0.0522	61.6	66.6	1	10.0-137			7.76	31
Chrysene	0.0784	U	0.0523	0.0569	66.7	72.6	1	10.0-145			8.42	30
Dibenz(a,h)anthracene	0.0784	U	0.0463	0.0499	59.1	63.6	1	10.0-132			7.48	31
Fluoranthene	0.0784	0.00232	0.0510	0.0557	62.1	68.1	1	10.0-153			8.81	33
Fluorene	0.0784	U	0.0563	0.0620	71.8	79.1	1	11.0-130			9.64	29
Indeno(1,2,3-cd)pyrene	0.0784	U	0.0471	0.0510	60.1	65.1	1	10.0-137			7.95	32
Naphthalene	0.0784	0.00701	0.0589	0.0627	66.2	71.0	1	10.0-135			6.25	27
Phenanthrene	0.0784	U	0.0577	0.0631	73.6	80.5	1	10.0-144			8.94	31
Pyrene	0.0784	0.0195	0.0742	0.0811	69.8	78.6	1	10.0-148			8.89	35
1-Methylnaphthalene	0.0784	0.00943	0.0552	0.0583	58.4	62.3	1	10.0-142			5.46	28
2-Methylnaphthalene	0.0784	U	0.0446	0.0477	56.9	60.8	1	10.0-137			6.72	28
2-Chloronaphthalene	0.0784	U	0.0446	0.0501	56.9	63.9	1	29.0-120			11.6	24
(S) Nitrobenzene-d5					87.6	85.8		14.0-149				
(S) 2-Fluorobiphenyl					65.2	65.5		34.0-125				
(S) p-Terphenyl-d14					81.6	82.3		23.0-120				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Method Blank (MB)

(MB) R3703797-2 09/13/21 00:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	71.2			14.0-149
(S) 2-Fluorobiphenyl	76.1			34.0-125
(S) p-Terphenyl-d14	89.1			23.0-120

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3703797-1 09/13/21 00:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0632	79.0	50.0-126	
Acenaphthene	0.0800	0.0605	75.6	50.0-120	
Acenaphthylene	0.0800	0.0662	82.8	50.0-120	
Benzo(a)anthracene	0.0800	0.0632	79.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0548	68.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0521	65.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0538	67.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0554	69.3	49.0-125	
Chrysene	0.0800	0.0600	75.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0538	67.3	47.0-125	
Fluoranthene	0.0800	0.0637	79.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3703797-1 09/13/21 00:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0624	78.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0577	72.1	46.0-125	
Naphthalene	0.0800	0.0598	74.8	50.0-120	
Phenanthrene	0.0800	0.0605	75.6	47.0-120	
Pyrene	0.0800	0.0604	75.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0620	77.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0584	73.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0598	74.8	50.0-120	
(S) Nitrobenzene-d5			78.3	14.0-149	
(S) 2-Fluorobiphenyl			80.0	34.0-125	
(S) p-Terphenyl-d14			90.6	23.0-120	

L1400652-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400652-04 09/13/21 01:04 • (MS) R3703797-3 09/13/21 01:24 • (MSD) R3703797-4 09/13/21 01:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0792	U	0.0520	0.0464	65.7	60.7	1	10.0-145			11.4	30
Acenaphthene	0.0792	U	0.0498	0.0456	62.9	59.7	1	14.0-127			8.81	27
Acenaphthylene	0.0792	U	0.0546	0.0498	68.9	65.2	1	21.0-124			9.20	25
Benzo(a)anthracene	0.0792	U	0.0516	0.0455	65.2	59.6	1	10.0-139			12.6	30
Benzo(a)pyrene	0.0792	U	0.0476	0.0426	60.1	55.8	1	10.0-141			11.1	31
Benzo(b)fluoranthene	0.0792	U	0.0441	0.0396	55.7	51.8	1	10.0-140			10.8	36
Benzo(g,h,i)perylene	0.0792	U	0.0450	0.0408	56.8	53.4	1	10.0-140			9.79	33
Benzo(k)fluoranthene	0.0792	U	0.0457	0.0426	57.7	55.8	1	10.0-137			7.02	31
Chrysene	0.0792	U	0.0508	0.0457	64.1	59.8	1	10.0-145			10.6	30
Dibenz(a,h)anthracene	0.0792	U	0.0442	0.0396	55.8	51.8	1	10.0-132			11.0	31
Fluoranthene	0.0792	U	0.0522	0.0472	65.9	61.8	1	10.0-153			10.1	33
Fluorene	0.0792	U	0.0508	0.0461	64.1	60.3	1	11.0-130			9.70	29
Indeno(1,2,3-cd)pyrene	0.0792	U	0.0460	0.0410	58.1	53.7	1	10.0-137			11.5	32
Naphthalene	0.0792	U	0.0496	0.0459	62.6	60.1	1	10.0-135			7.75	27
Phenanthrene	0.0792	U	0.0497	0.0448	62.8	58.6	1	10.0-144			10.4	31
Pyrene	0.0792	U	0.0503	0.0461	63.5	60.3	1	10.0-148			8.71	35
1-Methylnaphthalene	0.0792	U	0.0511	0.0468	64.5	61.3	1	10.0-142			8.78	28
2-Methylnaphthalene	0.0792	U	0.0484	0.0439	61.1	57.5	1	10.0-137			9.75	28
2-Chloronaphthalene	0.0792	U	0.0496	0.0458	62.6	59.9	1	29.0-120			7.97	24
(S) Nitrobenzene-d5					63.7	56.3		14.0-149				
(S) 2-Fluorobiphenyl					67.4	61.9		34.0-125				
(S) p-Terphenyl-d14					75.7	70.0		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

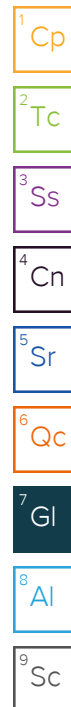
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

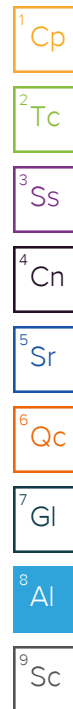
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.







**Entrada Consulting Group**

Sample Delivery Group: L1410191  
Samples Received: 09/28/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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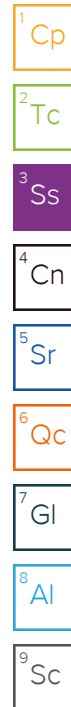
<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

## 20210927-BAKERCANYON-MW9 (20-22) L1410191-01 Solid

Collected by R. Johnson Collected date/time 09/27/21 08:55 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:45	10/07/21 00:45	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 17:10	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750570	1	10/03/21 16:17	10/03/21 19:43	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 11:30	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:45	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 00:51	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 08:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750333	1	09/30/21 17:46	10/02/21 07:24	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 16:30	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 14:04	AAT	Mt. Juliet, TN



## 20210927-BAKERCANYON-MW9 (25-27) L1410191-02 Solid

Collected by R. Johnson Collected date/time 09/27/21 09:15 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:48	10/07/21 00:48	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 17:15	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 11:46	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:48	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:08	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 08:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750333	1	09/30/21 17:46	10/02/21 07:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 15:23	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 14:24	AAT	Mt. Juliet, TN

## 20210927-BAKERCANYON-MW9 (30-32) L1410191-03 Solid

Collected by R. Johnson Collected date/time 09/27/21 09:45 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:50	10/07/21 00:50	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 17:41	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750570	1	10/03/21 16:17	10/03/21 19:43	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 11:49	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:50	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:11	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1.01	09/30/21 17:46	10/06/21 08:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750333	1	09/30/21 17:46	10/02/21 08:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 14:15	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 10:43	AAT	Mt. Juliet, TN

## 20210927-BAKERCANYON-MW9 (32-34) L1410191-04 Solid

Collected by R. Johnson Collected date/time 09/27/21 10:00 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:53	10/07/21 00:53	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 17:46	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 11:52	EL	Mt. Juliet, TN

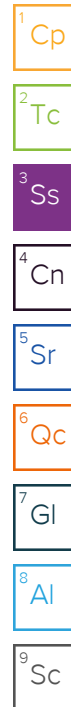


# SAMPLE SUMMARY

## 20210927-BAKERCANYON-MW9 (32-34) L1410191-04 Solid

Collected by R. Johnson Collected date/time 09/27/21 10:00 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:53	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:15	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 09:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750333	1	09/30/21 17:46	10/02/21 08:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 14:42	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 11:03	AAT	Mt. Juliet, TN



## 20210927-BAKERCANYON-MW10 (10-12) L1410191-05 Solid

Collected by R. Johnson Collected date/time 09/27/21 10:45 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:56	10/07/21 00:56	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 17:51	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:01	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:56	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:25	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 09:37	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	2	09/30/21 17:46	10/02/21 08:03	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 15:36	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 12:03	AAT	Mt. Juliet, TN

## 20210927-BAKERCANYON-MW10 (15-17) L1410191-06 Solid

Collected by R. Johnson Collected date/time 09/27/21 11:00 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 00:59	10/07/21 00:59	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751278	1	10/04/21 23:19	10/06/21 18:07	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:04	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 22:58	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:28	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 09:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	1	09/30/21 17:46	10/02/21 09:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 15:09	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 12:23	AAT	Mt. Juliet, TN

## 20210927-BAKERCANYON-MW10 (20-22) L1410191-07 Solid

Collected by R. Johnson Collected date/time 09/27/21 11:15 Received date/time 09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 01:01	10/07/21 01:01	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751280	1	10/06/21 17:00	10/08/21 18:21	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:07	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 23:01	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:32	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 10:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	1	09/30/21 17:46	10/02/21 10:11	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 16:17	JN	Mt. Juliet, TN

# SAMPLE SUMMARY

## 20210927-BAKERCANYON-MW10 (20-22) L1410191-07 Solid

Collected by  
R. Johnson

Collected date/time  
09/27/21 11:15

Received date/time  
09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 13:44	AAT	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## 20210927-BAKERCANYON-MW10 (25-27) L1410191-08 Solid

Collected by  
R. Johnson

Collected date/time  
09/27/21 11:30

Received date/time  
09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 01:04	10/07/21 01:04	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751280	1	10/06/21 17:00	10/08/21 18:34	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:10	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 23:09	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:35	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 10:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	1	09/30/21 17:46	10/02/21 10:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 14:01	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 12:43	AAT	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## 20210927-BAKERCANYON-MW10 (30-32) L1410191-09 Solid

Collected by  
R. Johnson

Collected date/time  
09/27/21 11:50

Received date/time  
09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 01:07	10/07/21 01:07	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751280	1	10/06/21 17:00	10/08/21 18:39	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:14	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 23:12	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:39	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 11:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	1	09/30/21 17:46	10/02/21 10:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 14:55	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 13:04	AAT	Mt. Juliet, TN

## 20210927-BAKERCANYON-MW10 (35-37) L1410191-10 Solid

Collected by  
R. Johnson

Collected date/time  
09/27/21 12:15

Received date/time  
09/28/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1749767	1	10/07/21 01:15	10/07/21 01:15	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1751280	1	10/06/21 17:00	10/08/21 18:44	GB	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1752176	1	10/06/21 14:00	10/06/21 16:00	AW	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1750673	1	10/03/21 15:44	10/03/21 19:12	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1750765	1	10/04/21 12:44	10/06/21 12:17	EL	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1749760	1	10/04/21 17:48	10/06/21 23:14	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1750766	5	10/04/21 12:40	10/05/21 01:42	LAT	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1751368	1	09/30/21 17:46	10/06/21 11:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1750409	1	09/30/21 17:46	10/02/21 11:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1752983	1	10/07/21 20:30	10/08/21 14:28	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1753809	1	10/09/21 14:44	10/10/21 13:24	AAT	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.67		1	10/07/2021 00:45	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 17:10	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.52	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-01 WG1752176: 8.52 at 21C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	372		10.0	1	10/03/2021 19:43	<a href="#">WG1750570</a>

## Sample Narrative:

L1410191-01 WG1750570: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	199	<a href="#">J6 O1</a>	0.0852	0.500	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Cadmium	0.584		0.0471	0.500	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Copper	21.3	<a href="#">O1</a>	0.400	2.00	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Lead	11.3	<a href="#">O1</a>	0.208	0.500	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Nickel	17.4	<a href="#">O1</a>	0.132	2.00	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 11:30	<a href="#">WG1750765</a>
Zinc	66.2	<a href="#">O1</a>	0.832	5.00	1	10/06/2021 11:30	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.441		0.0167	0.200	1	10/06/2021 22:45	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.31	<a href="#">O1</a>	0.100	1.00	5	10/05/2021 00:51	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.540		0.0217	0.100	1	10/06/2021 08:01	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.6			77.0-120		10/06/2021 08:01	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/02/2021 07:24	<a href="#">WG1750333</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 07:24	<a href="#">WG1750333</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 07:24	<a href="#">WG1750333</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 07:24	<a href="#">WG1750333</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 07:24	<a href="#">WG1750333</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 07:24	<a href="#">WG1750333</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 07:24	<a href="#">WG1750333</a>
(S) Toluene-d8	99.8			75.0-131		10/02/2021 07:24	<a href="#">WG1750333</a>
(S) 4-Bromofluorobenzene	99.4			67.0-138		10/02/2021 07:24	<a href="#">WG1750333</a>
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		10/02/2021 07:24	<a href="#">WG1750333</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	24.1		1.61	4.00	1	10/08/2021 16:30	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	70.7		0.274	4.00	1	10/08/2021 16:30	<a href="#">WG1752983</a>
(S) o-Terphenyl	45.4			18.0-148		10/08/2021 16:30	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	0.00190	U	0.00177	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 14:04	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 14:04	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 14:04	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 14:04	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	87.0			23.0-120		10/10/2021 14:04	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	60.8			14.0-149		10/10/2021 14:04	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	61.5			34.0-125		10/10/2021 14:04	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.29		1	10/07/2021 00:48	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 17:15	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.34	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-02 WG1752176: 8.34 at 21.3C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	433		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-02 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	164		0.0852	0.500	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Cadmium	0.491	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Copper	21.4		0.400	2.00	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Lead	9.88		0.208	0.500	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Nickel	16.4		0.132	2.00	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 11:46	<a href="#">WG1750765</a>
Zinc	66.5		0.832	5.00	1	10/06/2021 11:46	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.240		0.0167	0.200	1	10/06/2021 22:48	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.80		0.100	1.00	5	10/05/2021 01:08	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.04		0.0217	0.100	1	10/06/2021 08:31	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.9			77.0-120		10/06/2021 08:31	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.604		0.000467	0.00100	1	10/02/2021 07:43	<a href="#">WG1750333</a>
Toluene	0.00160	J	0.00130	0.00500	1	10/02/2021 07:43	<a href="#">WG1750333</a>
Ethylbenzene	0.0239		0.000737	0.00250	1	10/02/2021 07:43	<a href="#">WG1750333</a>
Xylenes, Total	0.162		0.000880	0.00650	1	10/02/2021 07:43	<a href="#">WG1750333</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 07:43	<a href="#">WG1750333</a>
1,2,4-Trimethylbenzene	0.0124		0.00158	0.00500	1	10/02/2021 07:43	<a href="#">WG1750333</a>
1,3,5-Trimethylbenzene	0.0119		0.00200	0.00500	1	10/02/2021 07:43	<a href="#">WG1750333</a>
(S) Toluene-d8	103			75.0-131		10/02/2021 07:43	<a href="#">WG1750333</a>
(S) 4-Bromofluorobenzene	96.0			67.0-138		10/02/2021 07:43	<a href="#">WG1750333</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		10/02/2021 07:43	<a href="#">WG1750333</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	14.5		1.61	4.00	1	10/08/2021 15:23	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	32.2		0.274	4.00	1	10/08/2021 15:23	<a href="#">WG1752983</a>
(S) o-Terphenyl	42.9			18.0-148		10/08/2021 15:23	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 14:24	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 14:24	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 14:24	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 14:24	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	107			23.0-120		10/10/2021 14:24	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	66.2			14.0-149		10/10/2021 14:24	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	71.6			34.0-125		10/10/2021 14:24	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.22		1	10/07/2021 00:50	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 17:41	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.91	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-03 WG1752176: 8.91 at 21.2C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	398		10.0	1	10/03/2021 19:43	<a href="#">WG1750570</a>

## Sample Narrative:

L1410191-03 WG1750570: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	118		0.0852	0.500	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Cadmium	0.432	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Copper	15.8		0.400	2.00	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Lead	11.2		0.208	0.500	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Nickel	13.8		0.132	2.00	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 11:49	<a href="#">WG1750765</a>
Zinc	53.6		0.832	5.00	1	10/06/2021 11:49	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.293		0.0167	0.200	1	10/06/2021 22:50	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.85		0.100	1.00	5	10/05/2021 01:11	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.810		0.0219	0.101	1.01	10/06/2021 08:53	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	97.3			77.0-120		10/06/2021 08:53	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00143		0.000467	0.00100	1	10/02/2021 08:02	<a href="#">WG1750333</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 08:02	<a href="#">WG1750333</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 08:02	<a href="#">WG1750333</a>
Xylenes, Total	0.00200	J	0.000880	0.00650	1	10/02/2021 08:02	<a href="#">WG1750333</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 08:02	<a href="#">WG1750333</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 08:02	<a href="#">WG1750333</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 08:02	<a href="#">WG1750333</a>
(S) Toluene-d8	103			75.0-131		10/02/2021 08:02	<a href="#">WG1750333</a>
(S) 4-Bromofluorobenzene	98.2			67.0-138		10/02/2021 08:02	<a href="#">WG1750333</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		10/02/2021 08:02	<a href="#">WG1750333</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.75	J	1.61	4.00	1	10/08/2021 14:15	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	9.10		0.274	4.00	1	10/08/2021 14:15	<a href="#">WG1752983</a>
(S) o-Terphenyl	63.0			18.0-148		10/08/2021 14:15	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 10:43	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 10:43	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 10:43	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 10:43	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	101			23.0-120		10/10/2021 10:43	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	56.6			14.0-149		10/10/2021 10:43	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	64.4			34.0-125		10/10/2021 10:43	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.15		1	10/07/2021 00:53	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 17:46	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.64	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-04 WG1752176: 8.64 at 21.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	558		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-04 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	147		0.0852	0.500	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Cadmium	0.387	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Copper	17.7		0.400	2.00	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Lead	9.01		0.208	0.500	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Nickel	14.5		0.132	2.00	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 11:52	<a href="#">WG1750765</a>
Zinc	50.6		0.832	5.00	1	10/06/2021 11:52	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.279		0.0167	0.200	1	10/06/2021 22:53	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.60		0.100	1.00	5	10/05/2021 01:15	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.58		0.0217	0.100	1	10/06/2021 09:15	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.4			77.0-120		10/06/2021 09:15	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.0426		0.000467	0.00100	1	10/02/2021 08:22	<a href="#">WG1750333</a>
Toluene	0.00396	J	0.00130	0.00500	1	10/02/2021 08:22	<a href="#">WG1750333</a>
Ethylbenzene	0.00827		0.000737	0.00250	1	10/02/2021 08:22	<a href="#">WG1750333</a>
Xylenes, Total	0.0965		0.000880	0.00650	1	10/02/2021 08:22	<a href="#">WG1750333</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 08:22	<a href="#">WG1750333</a>
1,2,4-Trimethylbenzene	0.0121		0.00158	0.00500	1	10/02/2021 08:22	<a href="#">WG1750333</a>
1,3,5-Trimethylbenzene	0.0118		0.00200	0.00500	1	10/02/2021 08:22	<a href="#">WG1750333</a>
(S) Toluene-d8	104			75.0-131		10/02/2021 08:22	<a href="#">WG1750333</a>
(S) 4-Bromofluorobenzene	94.3			67.0-138		10/02/2021 08:22	<a href="#">WG1750333</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		10/02/2021 08:22	<a href="#">WG1750333</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.41		1.61	4.00	1	10/08/2021 14:42	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	13.2		0.274	4.00	1	10/08/2021 14:42	<a href="#">WG1752983</a>
(S) o-Terphenyl	53.3			18.0-148		10/08/2021 14:42	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 11:03	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 11:03	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 11:03	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 11:03	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	91.1			23.0-120		10/10/2021 11:03	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	49.2			14.0-149		10/10/2021 11:03	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	56.9			34.0-125		10/10/2021 11:03	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.36		1	10/07/2021 00:56	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 17:51	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.56	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-05 WG1752176: 8.56 at 21C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	390		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-05 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	353		0.0852	0.500	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Cadmium	0.653		0.0471	0.500	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Copper	15.5		0.400	2.00	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Lead	7.02		0.208	0.500	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Nickel	14.0		0.132	2.00	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:01	<a href="#">WG1750765</a>
Zinc	47.4		0.832	5.00	1	10/06/2021 12:01	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

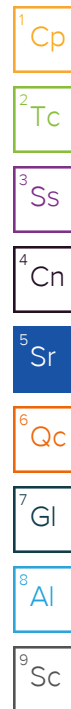
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.334		0.0167	0.200	1	10/06/2021 22:56	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.67		0.100	1.00	5	10/05/2021 01:25	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.888		0.0217	0.100	1	10/06/2021 09:37	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.3			77.0-120		10/06/2021 09:37	<a href="#">WG1751368</a>





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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000934	0.00200	2	10/02/2021 08:03	<a href="#">WG1750409</a>
Toluene	U		0.00260	0.0100	2	10/02/2021 08:03	<a href="#">WG1750409</a>
Ethylbenzene	U		0.00147	0.00500	2	10/02/2021 08:03	<a href="#">WG1750409</a>
Xylenes, Total	U		0.00176	0.0130	2	10/02/2021 08:03	<a href="#">WG1750409</a>
Naphthalene	U		0.00976	0.0250	2	10/02/2021 08:03	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00316	0.0100	2	10/02/2021 08:03	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00400	0.0100	2	10/02/2021 08:03	<a href="#">WG1750409</a>
(S) Toluene-d8	104			75.0-131		10/02/2021 08:03	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	92.9			67.0-138		10/02/2021 08:03	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		10/02/2021 08:03	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.50		1.61	4.00	1	10/08/2021 15:36	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	32.6		0.274	4.00	1	10/08/2021 15:36	<a href="#">WG1752983</a>
(S) o-Terphenyl	49.2			18.0-148		10/08/2021 15:36	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 12:03	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 12:03	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 12:03	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 12:03	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	90.8			23.0-120		10/10/2021 12:03	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	51.4			14.0-149		10/10/2021 12:03	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	65.1			34.0-125		10/10/2021 12:03	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.53		1	10/07/2021 00:59	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/06/2021 18:07	<a href="#">WG1751278</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.49	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-06 WG1752176: 8.49 at 20.7C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	294		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-06 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	258		0.0852	0.500	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Cadmium	0.452	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Copper	17.2		0.400	2.00	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Lead	8.88		0.208	0.500	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Nickel	16.0		0.132	2.00	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:04	<a href="#">WG1750765</a>
Zinc	51.4		0.832	5.00	1	10/06/2021 12:04	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.261		0.0167	0.200	1	10/06/2021 22:58	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	11.9		0.100	1.00	5	10/05/2021 01:28	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.324	<a href="#">B</a>	0.0217	0.100	1	10/06/2021 09:59	<a href="#">WG1751368</a>
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		10/06/2021 09:59	<a href="#">WG1751368</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00103		0.000467	0.00100	1	10/02/2021 09:51	<a href="#">WG1750409</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 09:51	<a href="#">WG1750409</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 09:51	<a href="#">WG1750409</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 09:51	<a href="#">WG1750409</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 09:51	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 09:51	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 09:51	<a href="#">WG1750409</a>
(S) Toluene-d8	105			75.0-131		10/02/2021 09:51	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	99.1			67.0-138		10/02/2021 09:51	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	96.3			70.0-130		10/02/2021 09:51	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.37		1.61	4.00	1	10/08/2021 15:09	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	31.3		0.274	4.00	1	10/08/2021 15:09	<a href="#">WG1752983</a>
(S) o-Terphenyl	53.0			18.0-148		10/08/2021 15:09	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 12:23	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 12:23	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 12:23	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 12:23	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	96.9			23.0-120		10/10/2021 12:23	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	50.3			14.0-149		10/10/2021 12:23	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	65.0			34.0-125		10/10/2021 12:23	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.50		1	10/07/2021 01:01	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/08/2021 18:21	<a href="#">WG1751280</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.59	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-07 WG1752176: 8.59 at 20.7C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	312		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-07 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	199		0.0852	0.500	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Cadmium	0.557		0.0471	0.500	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Copper	22.3		0.400	2.00	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Lead	10.7		0.208	0.500	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Nickel	18.2		0.132	2.00	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Selenium	0.883	<a href="#">J</a>	0.764	2.00	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:07	<a href="#">WG1750765</a>
Zinc	63.3		0.832	5.00	1	10/06/2021 12:07	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.260		0.0167	0.200	1	10/06/2021 23:01	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.64		0.100	1.00	5	10/05/2021 01:32	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.619		0.0217	0.100	1	10/06/2021 10:21	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.3			77.0-120		10/06/2021 10:21	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/02/2021 10:11	<a href="#">WG1750409</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 10:11	<a href="#">WG1750409</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 10:11	<a href="#">WG1750409</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 10:11	<a href="#">WG1750409</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 10:11	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 10:11	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 10:11	<a href="#">WG1750409</a>
(S) Toluene-d8	106			75.0-131		10/02/2021 10:11	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	91.6			67.0-138		10/02/2021 10:11	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		10/02/2021 10:11	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	33.8		1.61	4.00	1	10/08/2021 16:17	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	101		0.274	4.00	1	10/08/2021 16:17	<a href="#">WG1752983</a>
(S) o-Terphenyl	56.2			18.0-148		10/08/2021 16:17	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 13:44	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 13:44	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 13:44	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 13:44	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	111			23.0-120		10/10/2021 13:44	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	65.2			14.0-149		10/10/2021 13:44	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	79.1			34.0-125		10/10/2021 13:44	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.64		1	10/07/2021 01:04	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/08/2021 18:34	<a href="#">WG1751280</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.42	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-08 WG1752176: 8.42 at 20.8C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	466		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-08 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	192		0.0852	0.500	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Cadmium	0.460	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Copper	20.9		0.400	2.00	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Lead	11.0		0.208	0.500	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Nickel	16.7		0.132	2.00	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:10	<a href="#">WG1750765</a>
Zinc	59.5		0.832	5.00	1	10/06/2021 12:10	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.277		0.0167	0.200	1	10/06/2021 23:09	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.24		0.100	1.00	5	10/05/2021 01:35	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.436		0.0217	0.100	1	10/06/2021 10:43	<a href="#">WG1751368</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		10/06/2021 10:43	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/02/2021 10:30	<a href="#">WG1750409</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 10:30	<a href="#">WG1750409</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 10:30	<a href="#">WG1750409</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 10:30	<a href="#">WG1750409</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 10:30	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 10:30	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 10:30	<a href="#">WG1750409</a>
(S) Toluene-d8	104			75.0-131		10/02/2021 10:30	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	90.9			67.0-138		10/02/2021 10:30	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		10/02/2021 10:30	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	10/08/2021 14:01	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	4.39		0.274	4.00	1	10/08/2021 14:01	<a href="#">WG1752983</a>
(S) o-Terphenyl	50.2			18.0-148		10/08/2021 14:01	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 12:43	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 12:43	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 12:43	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 12:43	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	68.3			23.0-120		10/10/2021 12:43	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	50.2			14.0-149		10/10/2021 12:43	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	44.8			34.0-125		10/10/2021 12:43	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.09		1	10/07/2021 01:07	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/08/2021 18:39	<a href="#">WG1751280</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.52	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-09 WG1752176: 8.52 at 20.6C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	375		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-09 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	247		0.0852	0.500	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Cadmium	0.460	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Copper	14.8		0.400	2.00	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Lead	8.88		0.208	0.500	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Nickel	14.5		0.132	2.00	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Selenium	U		0.764	2.00	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:14	<a href="#">WG1750765</a>
Zinc	51.0		0.832	5.00	1	10/06/2021 12:14	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.184	<a href="#">J</a>	0.0167	0.200	1	10/06/2021 23:12	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.72		0.100	1.00	5	10/05/2021 01:39	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.535		0.0217	0.100	1	10/06/2021 11:05	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.0			77.0-120		10/06/2021 11:05	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/02/2021 10:50	<a href="#">WG1750409</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 10:50	<a href="#">WG1750409</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 10:50	<a href="#">WG1750409</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 10:50	<a href="#">WG1750409</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 10:50	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 10:50	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 10:50	<a href="#">WG1750409</a>
(S) Toluene-d8	108			75.0-131		10/02/2021 10:50	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	87.6			67.0-138		10/02/2021 10:50	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		10/02/2021 10:50	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.19		1.61	4.00	1	10/08/2021 14:55	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	19.9		0.274	4.00	1	10/08/2021 14:55	<a href="#">WG1752983</a>
(S) o-Terphenyl	52.6			18.0-148		10/08/2021 14:55	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 13:04	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 13:04	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 13:04	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 13:04	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	93.0			23.0-120		10/10/2021 13:04	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	48.2			14.0-149		10/10/2021 13:04	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	62.7			34.0-125		10/10/2021 13:04	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.47		1	10/07/2021 01:15	WG1749767

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/08/2021 18:44	<a href="#">WG1751280</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.46	<a href="#">T8</a>	1	10/06/2021 16:00	<a href="#">WG1752176</a>

## Sample Narrative:

L1410191-10 WG1752176: 8.46 at 20.9C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	326		10.0	1	10/03/2021 19:12	<a href="#">WG1750673</a>

## Sample Narrative:

L1410191-10 WG1750673: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	139		0.0852	0.500	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Cadmium	0.431	<a href="#">J</a>	0.0471	0.500	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Copper	20.9		0.400	2.00	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Lead	10.2		0.208	0.500	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Nickel	16.7		0.132	2.00	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Selenium	1.75	<a href="#">J</a>	0.764	2.00	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Silver	U		0.127	1.00	1	10/06/2021 12:17	<a href="#">WG1750765</a>
Zinc	57.3		0.832	5.00	1	10/06/2021 12:17	<a href="#">WG1750765</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.228		0.0167	0.200	1	10/06/2021 23:14	<a href="#">WG1749760</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	7.89		0.100	1.00	5	10/05/2021 01:42	<a href="#">WG1750766</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.458		0.0217	0.100	1	10/06/2021 11:27	<a href="#">WG1751368</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.1			77.0-120		10/06/2021 11:27	<a href="#">WG1751368</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/02/2021 11:10	<a href="#">WG1750409</a>
Toluene	U		0.00130	0.00500	1	10/02/2021 11:10	<a href="#">WG1750409</a>
Ethylbenzene	U		0.000737	0.00250	1	10/02/2021 11:10	<a href="#">WG1750409</a>
Xylenes, Total	U		0.000880	0.00650	1	10/02/2021 11:10	<a href="#">WG1750409</a>
Naphthalene	U		0.00488	0.0125	1	10/02/2021 11:10	<a href="#">WG1750409</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/02/2021 11:10	<a href="#">WG1750409</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/02/2021 11:10	<a href="#">WG1750409</a>
(S) Toluene-d8	105			75.0-131		10/02/2021 11:10	<a href="#">WG1750409</a>
(S) 4-Bromofluorobenzene	87.8			67.0-138		10/02/2021 11:10	<a href="#">WG1750409</a>
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		10/02/2021 11:10	<a href="#">WG1750409</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.67	J	1.61	4.00	1	10/08/2021 14:28	<a href="#">WG1752983</a>
C28-C36 Motor Oil Range	8.97		0.274	4.00	1	10/08/2021 14:28	<a href="#">WG1752983</a>
(S) o-Terphenyl	51.4			18.0-148		10/08/2021 14:28	<a href="#">WG1752983</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Acenaphthene	U		0.00209	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Acenaphthylene	U		0.00216	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Chrysene	U		0.00232	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Fluoranthene	U		0.00227	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Fluorene	U		0.00205	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Naphthalene	U		0.00408	0.0200	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Phenanthrene	U		0.00231	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
Pyrene	U		0.00200	0.00600	1	10/10/2021 13:24	<a href="#">WG1753809</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/10/2021 13:24	<a href="#">WG1753809</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/10/2021 13:24	<a href="#">WG1753809</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/10/2021 13:24	<a href="#">WG1753809</a>
(S) p-Terphenyl-d14	91.0			23.0-120		10/10/2021 13:24	<a href="#">WG1753809</a>
(S) Nitrobenzene-d5	43.7			14.0-149		10/10/2021 13:24	<a href="#">WG1753809</a>
(S) 2-Fluorobiphenyl	54.8			34.0-125		10/10/2021 13:24	<a href="#">WG1753809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3712997-1 10/06/21 10:08

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1410205-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1410205-02 10/06/21 10:24 • (DUP) R3712997-3 10/06/21 10:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1409974-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1409974-06 10/06/21 16:28 • (DUP) R3712997-4 10/06/21 16:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3712997-2 10/06/21 10:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.3	103	80.0-120	

L1410191-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410191-02 10/06/21 17:15 • (MS) R3712997-5 10/06/21 17:20 • (MSD) R3712997-6 10/06/21 17:26

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	18.3	18.4	91.4	92.0	1	75.0-125			0.656	20

L1410191-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1410191-02 10/06/21 17:15 • (MS) R3712997-7 10/06/21 17:31

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	648	U	560	86.4	50	75.0-125	

Method Blank (MB)

(MB) R3714314-1 10/08/21 18:08

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1410191-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1410191-07 10/08/21 18:21 • (DUP) R3714314-3 10/08/21 18:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1410909-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1410909-02 10/08/21 20:23 • (DUP) R3714314-8 10/08/21 20:28

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	0.274	0.282	1	2.87	⬇	20

Laboratory Control Sample (LCS)

(LCS) R3714314-2 10/08/21 18:13

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	11.4	114	80.0-120	

L1410197-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410197-01 10/08/21 18:49 • (MS) R3714314-4 10/08/21 18:55 • (MSD) R3714314-5 10/08/21 19:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	17.5	17.5	87.5	87.6	1	75.0-125			0.214	20

L1410197-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1410197-01 10/08/21 18:49 • (MS) R3714314-6 10/08/21 19:15

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	638	U	609	95.4	50	75.0-125	

L1410191-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1410191-03 10/06/21 16:00 • (DUP) R3713232-2 10/06/21 16:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.91	8.95	1	0.448		1

Sample Narrative:

OS: 8.91 at 21.2C

DUP: 8.95 at 21.3C



L1410197-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1410197-07 10/06/21 16:00 • (DUP) R3713232-3 10/06/21 16:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.69	8.69	1	0.000		1

Sample Narrative:

OS: 8.69 at 20.9C

DUP: 8.69 at 20.9C

Laboratory Control Sample (LCS)

(LCS) R3713232-1 10/06/21 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:

LCS: 9.98 at 20.8C

Method Blank (MB)

(MB) R3711839-1 10/03/21 19:43

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1409431-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1409431-09 10/03/21 19:43 • (DUP) R3711839-3 10/03/21 19:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	9950	9960	1	0.100		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1410191-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1410191-03 10/03/21 19:43 • (DUP) R3711839-4 10/03/21 19:43

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	398	397	1	0.252		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3711839-2 10/03/21 19:43

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	273	102	85.0-115	

Sample Narrative:

LCS: at 25C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3711836-1 10/03/21 19:12

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1410197-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1410197-07 10/03/21 19:12 • (DUP) R3711836-3 10/03/21 19:12

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	5470	5710	1	4.29		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1410205-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1410205-02 10/03/21 19:12 • (DUP) R3711836-4 10/03/21 19:12

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	458	494	1	7.56		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3711836-2 10/03/21 19:12

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	271	101	85.0-115	

Sample Narrative:

LCS: at 25C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3713123-1 10/06/21 11:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3713123-2 10/06/21 11:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	101	101	80.0-120	
Cadmium	100	95.1	95.1	80.0-120	
Copper	100	95.7	95.7	80.0-120	
Lead	100	95.7	95.7	80.0-120	
Nickel	100	97.1	97.1	80.0-120	
Selenium	100	98.4	98.4	80.0-120	
Silver	20.0	18.6	93.2	80.0-120	
Zinc	100	95.4	95.4	80.0-120	

L1410191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410191-01 10/06/21 11:30 • (MS) R3713123-5 10/06/21 11:40 • (MSD) R3713123-6 10/06/21 11:43

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	199	251	251	52.3	52.1	1	75.0-125	J6	J6	0.0619	20
Cadmium	100	0.584	99.4	113	98.8	112	1	75.0-125			12.6	20
Copper	100	21.3	123	140	101	118	1	75.0-125			12.9	20
Lead	100	11.3	109	122	97.8	111	1	75.0-125			11.3	20
Nickel	100	17.4	116	128	98.6	110	1	75.0-125			9.53	20
Selenium	100	U	99.5	113	99.5	113	1	75.0-125			12.9	20
Silver	20.0	U	19.6	22.1	98.1	110	1	75.0-125			11.9	20
Zinc	100	66.2	152	162	86.2	96.2	1	75.0-125			6.35	20

Method Blank (MB)

(MB) R3713385-1 10/06/21 22:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3713385-2 10/06/21 22:40 • (LCSD) R3713385-3 10/06/21 22:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.04	1.12	104	112	80.0-120			7.39	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3712338-1 10/05/21 00:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3712338-2 10/05/21 00:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	86.1	86.1	80.0-120	

L1410191-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410191-01 10/05/21 00:51 • (MS) R3712338-5 10/05/21 01:01 • (MSD) R3712338-6 10/05/21 01:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	6.31	85.3	100	79.0	94.0	5	75.0-125			16.2	20

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3713850-2 10/06/21 05:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0370	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	90.0			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3713850-1 10/06/21 05:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.16	93.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3712448-3 10/02/21 02:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	98.0			67.0-138
(S) 1,2-Dichloroethane-d4	94.8			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3712448-1 10/02/21 01:41 • (LCSD) R3712448-2 10/02/21 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.106	0.119	84.8	95.2	70.0-123			11.6	20
Ethylbenzene	0.125	0.109	0.122	87.2	97.6	74.0-126			11.3	20
Naphthalene	0.125	0.0955	0.101	76.4	80.8	59.0-130			5.60	20
Toluene	0.125	0.105	0.121	84.0	96.8	75.0-121			14.2	20
1,2,4-Trimethylbenzene	0.125	0.101	0.109	80.8	87.2	70.0-126			7.62	20
1,3,5-Trimethylbenzene	0.125	0.102	0.115	81.6	92.0	73.0-127			12.0	20
Xylenes, Total	0.375	0.330	0.361	88.0	96.3	72.0-127			8.97	20
(S) Toluene-d8				103	106	75.0-131				
(S) 4-Bromofluorobenzene				99.9	102	67.0-138				
(S) 1,2-Dichloroethane-d4				113	111	70.0-130				

L1408459-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408459-01 10/02/21 08:41 • (MS) R3712448-4 10/02/21 09:19 • (MSD) R3712448-5 10/02/21 09:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	10.0	U	6.29	9.85	62.9	98.5	80	10.0-149	J3		44.1	37
Ethylbenzene	10.0	U	6.14	10.1	61.4	101	80	10.0-160	J3		48.8	38
Naphthalene	10.0	U	7.98	9.15	79.8	91.5	80	10.0-160			13.7	36
Toluene	10.0	U	6.25	9.65	62.5	96.5	80	10.0-156	J3		42.8	38
1,2,4-Trimethylbenzene	10.0	0.324	6.32	9.73	60.0	94.1	80	10.0-160	J3		42.5	36
1,3,5-Trimethylbenzene	10.0	U	6.47	9.72	64.7	97.2	80	10.0-160	J3		40.1	38
Xylenes, Total	30.0	0.0720	19.5	29.4	64.8	97.8	80	10.0-160	J3		40.5	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1408459-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1408459-01 10/02/21 08:41 • (MS) R3712448-4 10/02/21 09:19 • (MSD) R3712448-5 10/02/21 09:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Toluene-d8					102	103		75.0-131				
(S) 4-Bromofluorobenzene					101	100		67.0-138				
(S) 1,2-Dichloroethane-d4					112	114		70.0-130				

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3714984-3 10/02/21 07:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	99.9			75.0-131
(S) 4-Bromofluorobenzene	93.5			67.0-138
(S) 1,2-Dichloroethane-d4	107			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3714984-1 10/02/21 06:45 • (LCSD) R3714984-2 10/02/21 07:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.120	0.119	96.0	95.2	70.0-123			0.837	20
Ethylbenzene	0.125	0.111	0.116	88.8	92.8	74.0-126			4.41	20
Naphthalene	0.125	0.0804	0.0785	64.3	62.8	59.0-130			2.39	20
Toluene	0.125	0.109	0.111	87.2	88.8	75.0-121			1.82	20
1,2,4-Trimethylbenzene	0.125	0.108	0.112	86.4	89.6	70.0-126			3.64	20
1,3,5-Trimethylbenzene	0.125	0.106	0.109	84.8	87.2	73.0-127			2.79	20
Xylenes, Total	0.375	0.329	0.321	87.7	85.6	72.0-127			2.46	20
(S) Toluene-d8				98.3	97.2	75.0-131				
(S) 4-Bromofluorobenzene				95.3	99.5	67.0-138				
(S) 1,2-Dichloroethane-d4				109	105	70.0-130				

L1410210-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410210-05 10/02/21 15:43 • (MS) R3714984-4 10/02/21 16:02 • (MSD) R3714984-5 10/02/21 16:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.200	U	0.130	0.0856	65.0	42.8	1.6	10.0-149		J3	41.2	37
Ethylbenzene	0.200	U	0.124	0.0816	62.0	40.8	1.6	10.0-160		J3	41.2	38
Naphthalene	0.200	U	0.114	0.150	57.0	75.0	1.6	10.0-160			27.3	36
Toluene	0.200	U	0.130	0.0843	65.0	42.1	1.6	10.0-156		J3	42.7	38
1,2,4-Trimethylbenzene	0.200	0.00284	0.132	0.0904	66.0	45.2	1.6	10.0-160		J3	37.4	36
1,3,5-Trimethylbenzene	0.200	U	0.128	0.0778	64.0	38.9	1.6	10.0-160		J3	48.8	38
Xylenes, Total	0.600	0.00268	0.356	0.244	59.3	40.7	1.6	10.0-160			37.3	38

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1410210-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410210-05 10/02/21 15:43 • (MS) R3714984-4 10/02/21 16:02 • (MSD) R3714984-5 10/02/21 16:22

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					102	102		75.0-131				
(S) 4-Bromofluorobenzene					90.6	95.9		67.0-138				
(S) 1,2-Dichloroethane-d4					97.5	100		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3714117-1 10/08/21 10:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	59.9			18.0-148

Method Blank (MB)

(MB) R3714117-1 10/08/21 10:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	59.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3714117-2 10/08/21 10:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.2	86.4	50.0-150	
(S) o-Terphenyl			75.5	18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3714117-2 10/08/21 10:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.2	86.4	50.0-150	
(S) o-Terphenyl			75.5	18.0-148	

L1410191-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410191-05 10/08/21 15:36 • (MS) R3714117-3 10/08/21 15:50 • (MSD) R3714117-4 10/08/21 16:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.6	6.50	40.4	45.0	69.8	80.5	1	50.0-150			10.8	20
(S) o-Terphenyl					57.7	61.1		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3714650-2 10/10/21 08:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	74.7			14.0-149
(S) 2-Fluorobiphenyl	92.3			34.0-125
(S) p-Terphenyl-d14	134	J1		23.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3714650-1 10/10/21 08:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0728	91.0	50.0-126	
Acenaphthene	0.0800	0.0745	93.1	50.0-120	
Acenaphthylene	0.0800	0.0808	101	50.0-120	
Benzo(a)anthracene	0.0800	0.0717	89.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0694	86.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0731	91.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0777	97.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0744	93.0	49.0-125	
Chrysene	0.0800	0.0761	95.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0710	88.8	47.0-125	
Fluoranthene	0.0800	0.0804	101	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3714650-1 10/10/21 08:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0737	92.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0729	91.1	46.0-125	
Naphthalene	0.0800	0.0738	92.3	50.0-120	
Phenanthrene	0.0800	0.0749	93.6	47.0-120	
Pyrene	0.0800	0.0822	103	43.0-123	
1-Methylnaphthalene	0.0800	0.0792	99.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0696	87.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0684	85.5	50.0-120	
(S) Nitrobenzene-d5			84.9	14.0-149	
(S) 2-Fluorobiphenyl			98.2	34.0-125	
(S) p-Terphenyl-d14			129	23.0-120	J1

L1410191-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1410191-04 10/10/21 11:03 • (MS) R3714650-3 10/10/21 11:23 • (MSD) R3714650-4 10/10/21 11:43

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	U	0.0520	0.0499	66.7	63.6	1	10.0-145			4.12	30
Acenaphthene	0.0780	U	0.0576	0.0552	73.8	70.4	1	14.0-127			4.26	27
Acenaphthylene	0.0780	U	0.0606	0.0585	77.7	74.6	1	21.0-124			3.53	25
Benzo(a)anthracene	0.0780	U	0.0532	0.0503	68.2	64.2	1	10.0-139			5.60	30
Benzo(a)pyrene	0.0780	U	0.0581	0.0568	74.5	72.4	1	10.0-141			2.26	31
Benzo(b)fluoranthene	0.0780	U	0.0542	0.0535	69.5	68.2	1	10.0-140			1.30	36
Benzo(g,h,i)perylene	0.0780	U	0.0610	0.0601	78.2	76.7	1	10.0-140			1.49	33
Benzo(k)fluoranthene	0.0780	U	0.0551	0.0520	70.6	66.3	1	10.0-137			5.79	31
Chrysene	0.0780	U	0.0604	0.0558	77.4	71.2	1	10.0-145			7.92	30
Dibenz(a,h)anthracene	0.0780	U	0.0533	0.0518	68.3	66.1	1	10.0-132			2.85	31
Fluoranthene	0.0780	U	0.0601	0.0576	77.1	73.5	1	10.0-153			4.25	33
Fluorene	0.0780	U	0.0573	0.0542	73.5	69.1	1	11.0-130			5.56	29
Indeno(1,2,3-cd)pyrene	0.0780	U	0.0565	0.0548	72.4	69.9	1	10.0-137			3.05	32
Naphthalene	0.0780	U	0.0627	0.0562	80.4	71.7	1	10.0-135			10.9	27
Phenanthrene	0.0780	U	0.0571	0.0536	73.2	68.4	1	10.0-144			6.32	31
Pyrene	0.0780	U	0.0641	0.0637	82.2	81.2	1	10.0-148			0.626	35
1-Methylnaphthalene	0.0780	U	0.0640	0.0595	82.1	75.9	1	10.0-142			7.29	28
2-Methylnaphthalene	0.0780	U	0.0613	0.0530	78.6	67.6	1	10.0-137			14.5	28
2-Chloronaphthalene	0.0780	U	0.0518	0.0512	66.4	65.3	1	29.0-120			1.17	24
(S) Nitrobenzene-d5					54.0	63.8		14.0-149				
(S) 2-Fluorobiphenyl					75.9	76.1		34.0-125				
(S) p-Terphenyl-d14					107	103		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

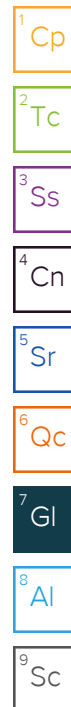
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122



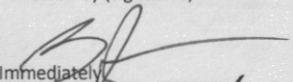
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: <b>Entrada Consulting Group</b> 330 Grand Ave Grand Junction, CO 81501				Billing Information: <b>Stuart Hall</b> 330 Grand Ave Grand Junction, CO 81501				Analysis / Container / Preservative										Chain of Custody Page <u>  </u> of <u>  </u>  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 				
Report to: <b>Stuart Hall</b>				Email To: <b>shall@entradainc.com</b>				<div style="display: flex; justify-content: space-around;"> <div>Table 915 GRO/DRO/ORO</div> <div>Table 915 Metals</div> <div>Table 915 PAH's</div> <div>Table 915 VOC's</div> <div>Table 915 pH, SPCON, SAR</div> <div>Table 915 Boron</div> </div>														
Project Description: <b>Baker Canyon Spill</b>				City/State Collected: <b>De Beque, CO</b>																		
Phone: <b>970-640-0568</b> Fax:		Client Project #		Lab Project #																		
Collected by (print): <b>R. Johnson</b>		Site/Facility ID #		P.O. #																		
Collected by (signature):  Immediately Packed on Ice N <u>  </u> Y <u>  </u> <input checked="" type="checkbox"/>		<b>Rush?</b> (Lab MUST Be Notified) Same Day .....200% Next Day .....100% Two Day .....50% Three Day .....25%				Date Results Needed Email? <u>  </u> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <u>  </u> Yes				No. of Cntrs		L# <b>1910191</b> <b>G029</b>		Acctnum: Template: Prelogin: TSR: PB: Shipped Via:								
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time															Rem./Contaminant	Sample # (lab only)
20210927 - Baker Canyon - MW9 (20-22')		Grab	SS	20-22'	9/27/21	0855	3														-01	
20210927 - Baker Canyon - MW9 (25-27')				25-27'		0915	3														-02	
20210927 - Baker Canyon - MW9 (30-32')				30-32'		0945	3														-03	
20210927 - Baker Canyon - MW9 (32-34')				32-34'		1000	3														-04	
20210927 - Baker Canyon - MW10 (10-12')				10-12'		1045	3														-05	
20210927 - Baker Canyon - MW10 (15-17')				15-17'		1100	3														-06	
20210927 - Baker Canyon - MW10 (20-22')				20-22'		1115	3														-07	
20210927 - Baker Canyon - MW10 (25-27')				25-27'		1130	3														-08	
20210927 - Baker Canyon - MW10 (30-32')				30-32'		1150	3														-09	
20210927 - Baker Canyon - MW10 (35-37')				35-37'		1215	3														-10	

\* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

Remarks:

Relinquished by: (Signature)	Date: 9/27/21	Time: 1600	Received by: (Signature)	Samp	pH
Relinquished by: (Signature)	Date: 9/27/21	Time: 1700	Received by: (Signature)	Temp: 4.745 = 4.7	Flow
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/28/21	Time: 0930

5016 1232 2982

Sample Receipt Checklist

COC Seal Present/Intact:    Y    N If Applicable

COC Signed/Accurate:    Y    N VOA Zero Headspace:    Y    N

Bottles arrive intact:    Y    N Pres. Correct/Check:    Y    N

Correct bottles used:    Y    N

Sufficient volume sent:    Y    N

RAD Screen <0.5 mR/hr:    Y    N

Bottles Received:    30

COC Seal Intact:    Y    N    NA ☒

pH Checked:    NCF:



November 01, 2021

## Entrada Consulting Group

Sample Delivery Group: L1421581  
Samples Received: 10/22/2021  
Project Number:  
Description: Baker Canyon Spill  
  
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:

*Chris Ward*

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

20211021-BC-SS2 L1421581-01 Solid

Collected by  
J McLarty

Collected date/time  
10/21/21 18:57

Received date/time  
10/22/21 18:58

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1762575	1	10/26/21 19:04	10/26/21 19:04	CCE	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG1763284	1	10/26/21 18:12	10/27/21 01:01	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1765718	1	10/29/21 10:01	10/30/21 11:50	KAB	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG1762485	1	10/24/21 14:42	10/24/21 15:45	AMH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1763517	1	10/26/21 17:10	10/28/21 01:58	CCE	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG1762573	1	10/25/21 08:27	10/26/21 17:47	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1765047	5	10/28/21 17:39	10/28/21 23:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1763060	1	10/24/21 22:51	10/26/21 13:04	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1763434	1	10/24/21 22:51	10/26/21 12:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1763667	1	10/27/21 08:22	10/27/21 20:55	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1763097	1	10/26/21 07:18	10/26/21 19:25	LEA	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.09		1	10/26/2021 19:04	WG1762575

## Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	U		0.255	1.00	1	10/27/2021 01:01	<a href="#">WG1763284</a>

## Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	<a href="#">T8</a>	1	10/30/2021 11:50	<a href="#">WG1765718</a>

## Sample Narrative:

L1421581-01 WG1765718: 8.12 at 20.1C

## Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	305		10.0	1	10/24/2021 15:45	<a href="#">WG1762485</a>

## Sample Narrative:

L1421581-01 WG1762485: at 25C

## Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Barium	238		0.0852	0.500	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Cadmium	0.503		0.0471	0.500	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Copper	10.9		0.400	2.00	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Lead	7.14		0.208	0.500	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Nickel	10.9		0.132	2.00	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Selenium	1.55	<a href="#">J</a>	0.764	2.00	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Silver	U		0.127	1.00	1	10/28/2021 01:58	<a href="#">WG1763517</a>
Zinc	36.5		0.832	5.00	1	10/28/2021 01:58	<a href="#">WG1763517</a>

## Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.827		0.0167	0.200	1	10/26/2021 17:47	<a href="#">WG1762573</a>

## Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	15.1		0.100	1.00	5	10/28/2021 23:23	<a href="#">WG1765047</a>

## Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.305		0.0217	0.100	1	10/26/2021 13:04	<a href="#">WG1763060</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	89.8			77.0-120		10/26/2021 13:04	<a href="#">WG1763060</a>



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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/26/2021 12:14	<a href="#">WG1763434</a>
Toluene	U		0.00130	0.00500	1	10/26/2021 12:14	<a href="#">WG1763434</a>
Ethylbenzene	U		0.000737	0.00250	1	10/26/2021 12:14	<a href="#">WG1763434</a>
Xylenes, Total	U		0.000880	0.00650	1	10/26/2021 12:14	<a href="#">WG1763434</a>
Naphthalene	U		0.00488	0.0125	1	10/26/2021 12:14	<a href="#">WG1763434</a>
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/26/2021 12:14	<a href="#">WG1763434</a>
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/26/2021 12:14	<a href="#">WG1763434</a>
(S) Toluene-d8	100			75.0-131		10/26/2021 12:14	<a href="#">WG1763434</a>
(S) 4-Bromofluorobenzene	98.3			67.0-138		10/26/2021 12:14	<a href="#">WG1763434</a>
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/26/2021 12:14	<a href="#">WG1763434</a>

## Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.28	J	1.61	4.00	1	10/27/2021 20:55	<a href="#">WG1763667</a>
C28-C36 Motor Oil Range	5.38		0.274	4.00	1	10/27/2021 20:55	<a href="#">WG1763667</a>
(S) o-Terphenyl	74.9			18.0-148		10/27/2021 20:55	<a href="#">WG1763667</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Acenaphthene	U		0.00209	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Acenaphthylene	U		0.00216	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Benzo(a)anthracene	U		0.00173	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Benzo(a)pyrene	U		0.00179	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Benzo(g,h,i)perylene	U		0.00177	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Chrysene	U		0.00232	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Fluoranthene	U		0.00227	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Fluorene	U		0.00205	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Naphthalene	U		0.00408	0.0200	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Phenanthrene	U		0.00231	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
Pyrene	U		0.00200	0.00600	1	10/26/2021 19:25	<a href="#">WG1763097</a>
1-Methylnaphthalene	U		0.00449	0.0200	1	10/26/2021 19:25	<a href="#">WG1763097</a>
2-Methylnaphthalene	U		0.00427	0.0200	1	10/26/2021 19:25	<a href="#">WG1763097</a>
2-Chloronaphthalene	U		0.00466	0.0200	1	10/26/2021 19:25	<a href="#">WG1763097</a>
(S) p-Terphenyl-d14	90.8			23.0-120		10/26/2021 19:25	<a href="#">WG1763097</a>
(S) Nitrobenzene-d5	61.5			14.0-149		10/26/2021 19:25	<a href="#">WG1763097</a>
(S) 2-Fluorobiphenyl	79.2			34.0-125		10/26/2021 19:25	<a href="#">WG1763097</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3721874-1 10/27/21 00:27

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1421783-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1421783-02 10/27/21 00:45 • (DUP) R3721874-3 10/27/21 00:50

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1421515-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1421515-12 10/27/21 01:22 • (DUP) R3721874-4 10/27/21 01:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3721874-2 10/27/21 00:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	11.7	117	80.0-120	

L1421515-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1421515-12 10/27/21 01:22 • (MS) R3721874-5 10/27/21 01:32 • (MSD) R3721874-6 10/27/21 01:37

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Hexavalent Chromium	20.0	U	22.6	23.1	113	116	1	75.0-125			2.37	20

L1421515-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1421515-12 10/27/21 01:22 • (MS) R3721874-7 10/27/21 01:42

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	653	U	705	108	50	75.0-125	



L1417721-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1417721-02 10/30/21 11:50 • (DUP) R3723363-2 10/30/21 11:50

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	10.4	10.4	1	0.289		1

Sample Narrative:

OS: 10.41 at 20.2C

DUP: 10.38 at 20.4C

L1422369-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1422369-02 10/30/21 11:50 • (DUP) R3723363-3 10/30/21 11:50

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.31	8.29	1	0.241		1

Sample Narrative:

OS: 8.31 at 20.2C

DUP: 8.29 at 20.5C

Laboratory Control Sample (LCS)

(LCS) R3723363-1 10/30/21 11:50

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 20.5C



Method Blank (MB)

(MB) R3720846-1 10/24/21 15:45

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1420899-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1420899-03 10/24/21 15:45 • (DUP) R3720846-3 10/24/21 15:45

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	7570	7630	1	0.789		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1421025-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1421025-02 10/24/21 15:45 • (DUP) R3720846-4 10/24/21 15:45

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	1470	1480	1	0.475		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3720846-2 10/24/21 15:45

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	268	271	101	85.0-115	

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3722462-1 10/28/21 00:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Copper	U		0.400	2.00
Lead	0.215	U	0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3722462-2 10/28/21 00:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Barium	100	103	103	80.0-120	
Cadmium	100	97.2	97.2	80.0-120	
Copper	100	99.7	99.7	80.0-120	
Lead	100	97.8	97.8	80.0-120	
Nickel	100	100	100	80.0-120	
Selenium	100	98.9	98.9	80.0-120	
Silver	20.0	17.7	88.7	80.0-120	
Zinc	100	97.0	97.0	80.0-120	

L1421057-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1421057-01 10/28/21 00:54 • (MS) R3722462-5 10/28/21 01:01 • (MSD) R3722462-6 10/28/21 01:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	100	23.8	120	114	95.8	90.4	1	75.0-125			4.61	20
Cadmium	100	0.191	89.6	86.3	89.4	86.1	1	75.0-125			3.74	20
Copper	100	4.26	96.8	92.5	92.6	88.2	1	75.0-125			4.63	20
Lead	100	4.68	97.5	93.2	92.9	88.6	1	75.0-125			4.50	20
Nickel	100	3.15	97.9	93.5	94.8	90.3	1	75.0-125			4.67	20
Selenium	100	1.25	90.5	86.8	89.2	85.5	1	75.0-125			4.22	20
Silver	20.0	U	16.7	16.0	83.7	80.1	1	75.0-125			4.44	20
Zinc	100	22.2	114	111	91.8	89.2	1	75.0-125			2.29	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3721723-1 10/26/21 17:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3721723-2 10/26/21 17:28 • (LCSD) R3721723-3 10/26/21 17:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.06	1.05	106	105	80.0-120			1.09	20

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3722805-1 10/28/21 23:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3722805-2 10/28/21 23:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	90.8	90.8	80.0-120	

L1421783-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1421783-02 10/28/21 23:07 • (MS) R3722805-5 10/28/21 23:17 • (MSD) R3722805-6 10/28/21 23:20

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	6.43	106	112	99.9	105	5	75.0-125			4.75	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3721847-3 10/26/21 10:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3721847-2 10/26/21 09:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.87	88.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			95.7	77.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3721974-3 10/26/21 04:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Naphthalene	U		0.00488	0.0125
Toluene	U		0.00130	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	95.4			67.0-138
(S) 1,2-Dichloroethane-d4	117			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3721974-1 10/26/21 03:24 • (LCSD) R3721974-2 10/26/21 03:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.121	0.125	96.8	100	70.0-123			3.25	20
Ethylbenzene	0.125	0.111	0.111	88.8	88.8	74.0-126			0.000	20
Naphthalene	0.125	0.116	0.125	92.8	100	59.0-130			7.47	20
Toluene	0.125	0.118	0.119	94.4	95.2	75.0-121			0.844	20
1,2,4-Trimethylbenzene	0.125	0.123	0.122	98.4	97.6	70.0-126			0.816	20
1,3,5-Trimethylbenzene	0.125	0.129	0.131	103	105	73.0-127			1.54	20
Xylenes, Total	0.375	0.328	0.331	87.5	88.3	72.0-127			0.910	20
(S) Toluene-d8				100	98.3	75.0-131				
(S) 4-Bromofluorobenzene				95.3	95.2	67.0-138				
(S) 1,2-Dichloroethane-d4				123	123	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3722195-1 10/27/21 14:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	91.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3722195-2 10/27/21 15:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	46.1	92.2	50.0-150	
(S) o-Terphenyl			109	18.0-148	

L1421581-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1421581-01 10/27/21 20:55 • (MS) R3722195-3 10/27/21 21:09 • (MSD) R3722195-4 10/27/21 21:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	2.28	49.8	54.8	95.0	107	1	50.0-150			9.56	20
(S) o-Terphenyl					75.2	81.3		18.0-148				

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3721538-2 10/26/21 13:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	86.1			14.0-149
(S) 2-Fluorobiphenyl	102			34.0-125
(S) p-Terphenyl-d14	127	J1		23.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3721538-1 10/26/21 13:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0702	87.8	50.0-126	
Acenaphthene	0.0800	0.0686	85.8	50.0-120	
Acenaphthylene	0.0800	0.0784	98.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0723	90.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0601	75.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0537	67.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0544	68.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0596	74.5	49.0-125	
Chrysene	0.0800	0.0677	84.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0531	66.4	47.0-125	
Fluoranthene	0.0800	0.0754	94.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3721538-1 10/26/21 13:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0722	90.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0552	69.0	46.0-125	
Naphthalene	0.0800	0.0670	83.8	50.0-120	
Phenanthrene	0.0800	0.0659	82.4	47.0-120	
Pyrene	0.0800	0.0710	88.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0731	91.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0678	84.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0667	83.4	50.0-120	
(S) Nitrobenzene-d5			92.6	14.0-149	
(S) 2-Fluorobiphenyl			110	34.0-125	
(S) p-Terphenyl-d14			128	23.0-120	J1

L1420708-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1420708-01 10/26/21 19:45 • (MS) R3721538-3 10/26/21 20:05 • (MSD) R3721538-4 10/26/21 20:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0792	U	0.0679	0.0650	85.7	82.5	1	10.0-145			4.36	30
Acenaphthene	0.0792	U	0.0620	0.0611	78.3	77.5	1	14.0-127			1.46	27
Acenaphthylene	0.0792	0.00233	0.0722	0.0709	88.2	87.0	1	21.0-124			1.82	25
Benzo(a)anthracene	0.0792	0.00898	0.0723	0.0711	79.9	78.8	1	10.0-139			1.67	30
Benzo(a)pyrene	0.0792	0.0116	0.0643	0.0625	66.5	64.6	1	10.0-141			2.84	31
Benzo(b)fluoranthene	0.0792	0.0143	0.0591	0.0548	56.6	51.4	1	10.0-140			7.55	36
Benzo(g,h,i)perylene	0.0792	0.0174	0.0579	0.0555	51.1	48.4	1	10.0-140			4.23	33
Benzo(k)fluoranthene	0.0792	0.00345	0.0535	0.0540	63.2	64.1	1	10.0-137			0.930	31
Chrysene	0.0792	0.00880	0.0705	0.0688	77.9	76.1	1	10.0-145			2.44	30
Dibenz(a,h)anthracene	0.0792	U	0.0505	0.0498	63.8	63.2	1	10.0-132			1.40	31
Fluoranthene	0.0792	0.0141	0.0814	0.0757	85.0	78.2	1	10.0-153			7.26	33
Fluorene	0.0792	U	0.0648	0.0643	81.8	81.6	1	11.0-130			0.775	29
Indeno(1,2,3-cd)pyrene	0.0792	0.0113	0.0577	0.0568	58.6	57.7	1	10.0-137			1.57	32
Naphthalene	0.0792	0.00906	0.0671	0.0751	73.3	83.8	1	10.0-135			11.3	27
Phenanthrene	0.0792	0.00919	0.0672	0.0668	73.2	73.1	1	10.0-144			0.597	31
Pyrene	0.0792	0.0141	0.0722	0.0712	73.4	72.5	1	10.0-148			1.39	35
1-Methylnaphthalene	0.0792	0.00945	0.0716	0.0763	78.5	84.8	1	10.0-142			6.36	28
2-Methylnaphthalene	0.0792	0.0119	0.0701	0.0761	73.5	81.5	1	10.0-137			8.21	28
2-Chloronaphthalene	0.0792	U	0.0609	0.0595	76.9	75.5	1	29.0-120			2.33	24
(S) Nitrobenzene-d5					83.2	81.9		14.0-149				
(S) 2-Fluorobiphenyl					98.5	95.2		34.0-125				
(S) p-Terphenyl-d14					107	110		23.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
T8	Sample(s) received past/too close to holding time expiration.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# ACCREDITATIONS & LOCATIONS

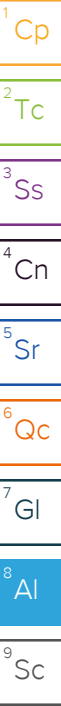
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



# Entrada Consulting Group

330 Grand Avenue  
Grand Junction, CO 81501

Report to:  
**Stuart Hall**

Project Description:

*Baker Canyon Spill*

City/State  
Collected:

*DeBeque, CO*

Please Circle:  
PT ☒ MT ☐ CT ☐ ET

Phone: **970-640-0568**

Client Project #

Lab Project #  
**ENTCONGJCO-915**

Collected by (print):

*J. McLarty*

Site/Facility ID #

P.O. #

Collected by (signature):

*J. McLarty*

**Rush?** (Lab MUST Be Notified)

☐ Same Day ☒ Five Day  
☐ Next Day ☐ 5 Day (Rad Only)  
☐ Two Day ☐ 10 Day (Rad Only)  
☐ Three Day

Quote #

Date Results Needed

No.  
of  
Cnts

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

*20Z110Z1-BC-SSZ*

*Grab*

*SS*

*0'-6"*

*10/21/21*

*1415*

*3*

Table 915 GRO/DRO/ORO 4ozClr-NoPres

Table 915 Metals 4ozClr-NoPres

Table 915 PAHs 4ozClr-NoPres

Table 915 VOCs 4ozClr-NoPres

Table 915 pH SPCONSAR 4ozClr-NoPres

Analysis / Container / Preservative

Chain of Custody Page \_\_\_\_ of \_\_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG #

*U421581*

**F223**

Acctnum: **ENTCONGJCO**

Template: **T180603**

Prelogin: **P822819**

PM: **824 - Chris Ward**

PB:

Shipped Via: **FedEX Ground**

Remarks

Sample # (lab only)

*-01*

\* Matrix:

**SS** - Soil **AIR** - Air **F** - Filter  
**GW** - Groundwater **B** - Bioassay  
**WW** - WasteWater  
**DW** - Drinking Water  
**OT** - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

*5016 1232 2426*

Relinquished by: (Signature)

*J. McLarty*

Date:

*10/21/21*

Time:

*1530*

Received by: (Signature)

*[Signature]*

Trip Blank Received: Yes ☒ No ☐

*None* HCL / MeOH  
TBR

Relinquished by: (Signature)

*[Signature]*

Date:

*10/21*

Time:

*1700*

Received by: (Signature)

*[Signature]*

Temp: \_\_\_\_\_ Bottles Received:

*1.120E7* *3*

Relinquished by: (Signature)

*[Signature]*

Date:

*10/22/21*

Time:

*0915*

Received for lab by: (Signature)

*[Signature]*

Date:

*10/22/21*

Time:

*0915*

Hold:

Condition:

NCF / ☒ OK

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N  
COC Signed/Accurate: ☒ Y ☐ N  
Bottles arrive intact: ☒ Y ☐ N  
Correct bottles used: ☒ Y ☐ N  
Sufficient volume sent: ☒ Y ☐ N  
If Applicable  
VOA Zero Headpace: ☐ Y ☐ N  
Preservation Correct/Checked: ☐ Y ☐ N  
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

# WATER ANALYTICAL REPORTS

---

**Entrada Consulting Group**

Sample Delivery Group: L1335409  
Samples Received: 04/07/2021  
Project Number: 021-054  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

SW-1 L1335409-01 GW

Collected by  
R. Johnson

Collected date/time  
04/05/21 14:40

Received date/time  
04/07/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1647757	1	04/08/21 10:28	04/08/21 12:37	MML	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1647953	1	04/08/21 19:00	04/08/21 19:00	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1647953	10	04/09/21 10:32	04/09/21 10:32	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1648001	1	04/08/21 14:13	04/08/21 14:13	ACG	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

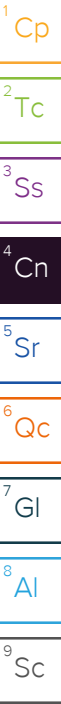
<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1370		25.0	1	04/08/2021 12:37	<a href="#">WG1647757</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	94.1		1.00	1	04/08/2021 19:00	<a href="#">WG1647953</a>
Sulfate	512		50.0	10	04/09/2021 10:32	<a href="#">WG1647953</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	04/08/2021 14:13	<a href="#">WG1648001</a>
Toluene	ND		0.00100	1	04/08/2021 14:13	<a href="#">WG1648001</a>
Ethylbenzene	ND		0.00100	1	04/08/2021 14:13	<a href="#">WG1648001</a>
Xylenes, Total	ND		0.00300	1	04/08/2021 14:13	<a href="#">WG1648001</a>
Naphthalene	ND		0.00500	1	04/08/2021 14:13	<a href="#">WG1648001</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	04/08/2021 14:13	<a href="#">WG1648001</a>
1,3,5-Trimethylbenzene	ND		0.00100	1	04/08/2021 14:13	<a href="#">WG1648001</a>
(S) Toluene-d8	110		80.0-120		04/08/2021 14:13	<a href="#">WG1648001</a>
(S) 4-Bromofluorobenzene	104		77.0-126		04/08/2021 14:13	<a href="#">WG1648001</a>
(S) 1,2-Dichloroethane-d4	99.7		70.0-130		04/08/2021 14:13	<a href="#">WG1648001</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3640107-1 04/08/21 12:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

Laboratory Control Sample (LCS)

(LCS) R3640107-2 04/08/21 12:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8230	93.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3639982-1 04/08/21 15:28

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1335873-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1335873-01 04/08/21 19:26 • (DUP) R3639982-3 04/08/21 19:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	41.6	41.4	1	0.642		15
Sulfate	27.1	26.9	1	0.716		15

L1335919-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1335919-08 04/09/21 00:07 • (DUP) R3639982-7 04/09/21 08:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	3.74	3.44	1	8.57		15
Sulfate	50.3	48.5	1	3.66		15

Laboratory Control Sample (LCS)

(LCS) R3639982-2 04/08/21 15:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	40.5	101	80.0-120	

L1335873-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1335873-01 04/08/21 19:26 • (MS) R3639982-4 04/08/21 19:51 • (MSD) R3639982-5 04/08/21 20:04

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	41.6	91.7	92.2	100	101	1	80.0-120			0.541	15
Sulfate	50.0	27.1	78.5	78.8	103	103	1	80.0-120			0.329	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1335919-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1335919-07 04/08/21 23:42 • (MS) R3639982-6 04/08/21 23:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	3.49	52.2	97.4	1	80.0-120	
Sulfate	50.0	38.4	84.6	92.5	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3639870-2 04/08/21 12:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	105			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3639870-1 04/08/21 11:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00460	92.0	70.0-123	
Ethylbenzene	0.00500	0.00505	101	79.0-123	
Naphthalene	0.00500	0.00490	98.0	54.0-135	
Toluene	0.00500	0.00462	92.4	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00500	100	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00482	96.4	76.0-122	
Xylenes, Total	0.0150	0.0142	94.7	79.0-123	
(S) Toluene-d8			108	80.0-120	
(S) 4-Bromofluorobenzene			106	77.0-126	
(S) 1,2-Dichloroethane-d4			101	70.0-130	

1  
Cp

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Tc

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Cn

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# GLOSSARY OF TERMS

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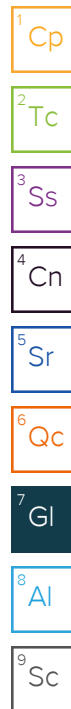
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
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Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.


\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.







Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form

Client: <u>ENTCONGJCO</u>		<u>21335409</u>	
Cooler Received/Opened On: <u>11/7 / 21</u>		Temperature: <u>61</u>	
Received By: <u>Delisha Kirkendoll</u>			
Signature: <u></u>			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<u>✓</u>		
COC Signed / Accurate?		<u>✓</u>	
Bottles arrive intact?		<u>✓</u>	
Correct bottles used?		<u>✓</u>	
Sufficient volume sent?		<u>✓</u>	
If Applicable			
VOA Zero headspace?		<u>✓</u>	
Preservation Correct / Checked?			



**Entrada Consulting Group**

Sample Delivery Group: L1348149  
Samples Received: 05/05/2021  
Project Number: 021-054  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Jordan N Zito  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## MW1 L1348149-01 GW

Collected by  
R. Johnson

Collected date/time  
05/04/21 10:10

Received date/time  
05/05/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1667927	1	05/10/21 17:14	05/10/21 17:48	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1667040	10	05/12/21 07:47	05/12/21 07:47	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1666574	1	05/08/21 04:09	05/08/21 04:09	ACG	Mt. Juliet, TN

## MW2 L1348149-02 GW

Collected by  
R. Johnson

Collected date/time  
05/04/21 11:00

Received date/time  
05/05/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1667927	1	05/10/21 17:14	05/10/21 17:48	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1667047	10	05/12/21 02:41	05/12/21 02:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1666574	1	05/08/21 04:28	05/08/21 04:28	ACG	Mt. Juliet, TN

## MW3 L1348149-03 GW

Collected by  
R. Johnson

Collected date/time  
05/04/21 11:25

Received date/time  
05/05/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1667927	1	05/10/21 17:14	05/10/21 17:48	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1667047	10	05/12/21 02:57	05/12/21 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1666574	1	05/08/21 04:47	05/08/21 04:47	ACG	Mt. Juliet, TN

## MW4 L1348149-04 GW

Collected by  
R. Johnson

Collected date/time  
05/04/21 12:10

Received date/time  
05/05/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1667927	1	05/10/21 17:14	05/10/21 17:48	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1667047	10	05/12/21 03:13	05/12/21 03:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1666574	1	05/08/21 05:06	05/08/21 05:06	ACG	Mt. Juliet, TN

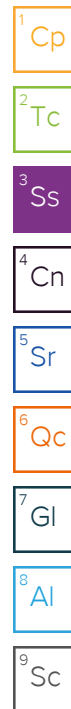
## MW5 L1348149-05 GW

Collected by  
R. Johnson

Collected date/time  
05/04/21 12:40

Received date/time  
05/05/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1667927	1	05/10/21 17:14	05/10/21 17:48	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1667047	10	05/12/21 03:30	05/12/21 03:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1666574	1	05/08/21 05:25	05/08/21 05:25	ACG	Mt. Juliet, TN



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jordan N Zito  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1810		25.0	1	05/10/2021 17:48	<a href="#">WG1667927</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	83.4		10.0	10	05/12/2021 07:47	<a href="#">WG1667040</a>
Sulfate	837		50.0	10	05/12/2021 07:47	<a href="#">WG1667040</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	05/08/2021 04:09	<a href="#">WG1666574</a>
Toluene	ND		0.00100	1	05/08/2021 04:09	<a href="#">WG1666574</a>
Ethylbenzene	ND		0.00100	1	05/08/2021 04:09	<a href="#">WG1666574</a>
Xylenes, Total	ND		0.00300	1	05/08/2021 04:09	<a href="#">WG1666574</a>
Naphthalene	ND		0.00500	1	05/08/2021 04:09	<a href="#">WG1666574</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	05/08/2021 04:09	<a href="#">WG1666574</a>
1,3,5-Trimethylbenzene	ND		0.00100	1	05/08/2021 04:09	<a href="#">WG1666574</a>
(S) Toluene-d8	110		80.0-120		05/08/2021 04:09	<a href="#">WG1666574</a>
(S) 4-Bromofluorobenzene	102		77.0-126		05/08/2021 04:09	<a href="#">WG1666574</a>
(S) 1,2-Dichloroethane-d4	98.9		70.0-130		05/08/2021 04:09	<a href="#">WG1666574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1760		25.0	1	05/10/2021 17:48	<a href="#">WG1667927</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	105		10.0	10	05/12/2021 02:41	<a href="#">WG1667047</a>
Sulfate	766		50.0	10	05/12/2021 02:41	<a href="#">WG1667047</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	05/08/2021 04:28	<a href="#">WG1666574</a>
Toluene	0.00156		0.00100	1	05/08/2021 04:28	<a href="#">WG1666574</a>
Ethylbenzene	ND		0.00100	1	05/08/2021 04:28	<a href="#">WG1666574</a>
Xylenes, Total	0.0142		0.00300	1	05/08/2021 04:28	<a href="#">WG1666574</a>
Naphthalene	ND		0.00500	1	05/08/2021 04:28	<a href="#">WG1666574</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	05/08/2021 04:28	<a href="#">WG1666574</a>
1,3,5-Trimethylbenzene	0.00115		0.00100	1	05/08/2021 04:28	<a href="#">WG1666574</a>
(S) Toluene-d8	104		80.0-120		05/08/2021 04:28	<a href="#">WG1666574</a>
(S) 4-Bromofluorobenzene	113		77.0-126		05/08/2021 04:28	<a href="#">WG1666574</a>
(S) 1,2-Dichloroethane-d4	104		70.0-130		05/08/2021 04:28	<a href="#">WG1666574</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1320		20.0	1	05/10/2021 17:48	<a href="#">WG1667927</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	71.4		10.0	10	05/12/2021 02:57	<a href="#">WG1667047</a>
Sulfate	487		50.0	10	05/12/2021 02:57	<a href="#">WG1667047</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00142		0.00100	1	05/08/2021 04:47	<a href="#">WG1666574</a>
Toluene	0.00606		0.00100	1	05/08/2021 04:47	<a href="#">WG1666574</a>
Ethylbenzene	ND		0.00100	1	05/08/2021 04:47	<a href="#">WG1666574</a>
Xylenes, Total	0.0121		0.00300	1	05/08/2021 04:47	<a href="#">WG1666574</a>
Naphthalene	ND		0.00500	1	05/08/2021 04:47	<a href="#">WG1666574</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	05/08/2021 04:47	<a href="#">WG1666574</a>
1,3,5-Trimethylbenzene	ND		0.00100	1	05/08/2021 04:47	<a href="#">WG1666574</a>
(S) Toluene-d8	109		80.0-120		05/08/2021 04:47	<a href="#">WG1666574</a>
(S) 4-Bromofluorobenzene	106		77.0-126		05/08/2021 04:47	<a href="#">WG1666574</a>
(S) 1,2-Dichloroethane-d4	102		70.0-130		05/08/2021 04:47	<a href="#">WG1666574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1970		50.0	1	05/10/2021 17:48	<a href="#">WG1667927</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	104		10.0	10	05/12/2021 03:13	<a href="#">WG1667047</a>
Sulfate	966		50.0	10	05/12/2021 03:13	<a href="#">WG1667047</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	05/08/2021 05:06	<a href="#">WG1666574</a>
Toluene	ND		0.00100	1	05/08/2021 05:06	<a href="#">WG1666574</a>
Ethylbenzene	ND		0.00100	1	05/08/2021 05:06	<a href="#">WG1666574</a>
Xylenes, Total	0.00397		0.00300	1	05/08/2021 05:06	<a href="#">WG1666574</a>
Naphthalene	ND		0.00500	1	05/08/2021 05:06	<a href="#">WG1666574</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	05/08/2021 05:06	<a href="#">WG1666574</a>
1,3,5-Trimethylbenzene	0.00195		0.00100	1	05/08/2021 05:06	<a href="#">WG1666574</a>
(S) Toluene-d8	110		80.0-120		05/08/2021 05:06	<a href="#">WG1666574</a>
(S) 4-Bromofluorobenzene	100		77.0-126		05/08/2021 05:06	<a href="#">WG1666574</a>
(S) 1,2-Dichloroethane-d4	104		70.0-130		05/08/2021 05:06	<a href="#">WG1666574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1380		20.0	1	05/10/2021 17:48	<a href="#">WG1667927</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	71.8		10.0	10	05/12/2021 03:30	<a href="#">WG1667047</a>
Sulfate	525		50.0	10	05/12/2021 03:30	<a href="#">WG1667047</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0368		0.00100	1	05/08/2021 05:25	<a href="#">WG1666574</a>
Toluene	0.0715		0.00100	1	05/08/2021 05:25	<a href="#">WG1666574</a>
Ethylbenzene	0.00167		0.00100	1	05/08/2021 05:25	<a href="#">WG1666574</a>
Xylenes, Total	0.0580		0.00300	1	05/08/2021 05:25	<a href="#">WG1666574</a>
Naphthalene	ND		0.00500	1	05/08/2021 05:25	<a href="#">WG1666574</a>
1,2,4-Trimethylbenzene	0.00215		0.00100	1	05/08/2021 05:25	<a href="#">WG1666574</a>
1,3,5-Trimethylbenzene	0.00224		0.00100	1	05/08/2021 05:25	<a href="#">WG1666574</a>
(S) Toluene-d8	110		80.0-120		05/08/2021 05:25	<a href="#">WG1666574</a>
(S) 4-Bromofluorobenzene	103		77.0-126		05/08/2021 05:25	<a href="#">WG1666574</a>
(S) 1,2-Dichloroethane-d4	104		70.0-130		05/08/2021 05:25	<a href="#">WG1666574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3653129-1 05/10/21 17:48

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

Laboratory Control Sample (LCS)

(LCS) R3653129-2 05/10/21 17:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Dissolved Solids	8800	8510	96.7	77.4-123	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3653603-1 05/12/21 00:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1347649-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1347649-01 05/12/21 03:12 • (DUP) R3653603-3 05/12/21 03:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	30.2	30.2	1	0.117		15
Sulfate	80.9	80.9	1	0.00643		15

L1347649-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1347649-08 05/12/21 05:30 • (DUP) R3653603-6 05/12/21 05:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	19.0	19.0	1	0.165		15
Sulfate	37.7	37.6	1	0.169		15

Laboratory Control Sample (LCS)

(LCS) R3653603-2 05/12/21 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.6	99.0	80.0-120	
Sulfate	40.0	40.3	101	80.0-120	

L1347649-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1347649-02 05/12/21 03:35 • (MS) R3653603-4 05/12/21 03:46 • (MSD) R3653603-5 05/12/21 03:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	28.6	77.7	78.1	98.4	99.1	1	80.0-120			0.492	15
Sulfate	50.0	34.2	83.3	83.4	98.2	98.3	1	80.0-120			0.101	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1347649-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1347649-08 05/12/21 05:30 • (MS) R3653603-7 05/12/21 05:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	19.0	68.5	99.0	1	80.0-120	
Sulfate	50.0	37.7	86.5	97.5	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3653551-1 05/12/21 01:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1348232-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1348232-02 05/12/21 03:46 • (DUP) R3653551-3 05/12/21 04:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	3.94	3.96	1	0.555		15
Sulfate	ND	ND	1	2.09		15

L1348457-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1348457-06 05/12/21 09:31 • (DUP) R3653551-6 05/12/21 09:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	ND	ND	1	2.18		15
Sulfate	ND	ND	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3653551-2 05/12/21 02:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	39.9	99.8	80.0-120	
Sulfate	40.0	40.3	101	80.0-120	

L1348232-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1348232-02 05/12/21 03:46 • (MS) R3653551-4 05/12/21 04:19 • (MSD) R3653551-5 05/12/21 05:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	3.94	55.4	55.6	103	103	1	80.0-120			0.381	15
Sulfate	50.0	ND	52.5	52.6	102	102	1	80.0-120			0.242	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1348457-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1348457-06 05/12/21 09:31 • (MS) R3653551-7 05/12/21 10:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	ND	50.1	99.4	1	80.0-120	
Sulfate	50.0	ND	50.2	100	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3652895-2 05/08/21 00:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	105			77.0-126
(S) 1,2-Dichloroethane-d4	100			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3652895-1 05/07/21 23:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00460	92.0	70.0-123	
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
Naphthalene	0.00500	0.00342	68.4	54.0-135	
Toluene	0.00500	0.00475	95.0	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00449	89.8	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00448	89.6	76.0-122	
Xylenes, Total	0.0150	0.0123	82.0	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

1  
Cp

2  
Tc

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Sr

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Qc

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Gl

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Al

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Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

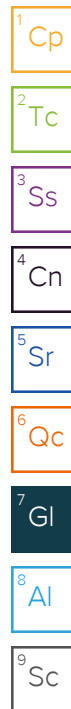
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.





# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]

**Entrada Consulting Group**

Sample Delivery Group: L1355337  
Samples Received: 05/19/2021  
Project Number:  
Description: Baker Canton Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## MW-2 L1355337-01 GW

Collected by  
J. McLarty

Collected date/time  
05/18/21 11:00

Received date/time  
05/19/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1677321	1	05/25/21 16:56	05/25/21 18:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1678662	20	05/27/21 19:40	05/27/21 19:40	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1676247	1	05/24/21 12:41	05/24/21 12:41	DWR	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## MW-4 L1355337-02 GW

Collected by  
J. McLarty

Collected date/time  
05/18/21 11:30

Received date/time  
05/19/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1677321	1	05/25/21 16:56	05/25/21 18:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1678662	20	05/27/21 19:56	05/27/21 19:56	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1676247	1	05/24/21 13:02	05/24/21 13:02	DWR	Mt. Juliet, TN

## MW-5 L1355337-03 GW

Collected by  
J. McLarty

Collected date/time  
05/18/21 12:00

Received date/time  
05/19/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1677155	1	05/25/21 14:38	05/25/21 16:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1678662	10	05/27/21 20:13	05/27/21 20:13	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1676247	1	05/24/21 13:24	05/24/21 13:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1676791	5	05/25/21 12:40	05/25/21 12:40	ACG	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1710		40.0	1	05/25/2021 18:00	<a href="#">WG1677321</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	96.3		20.0	20	05/27/2021 19:40	<a href="#">WG1678662</a>
Sulfate	808		100	20	05/27/2021 19:40	<a href="#">WG1678662</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	0.0137		0.00100	1	05/24/2021 12:41	<a href="#">WG1676247</a>
Toluene	0.0143		0.00100	1	05/24/2021 12:41	<a href="#">WG1676247</a>
Ethylbenzene	0.00146		0.00100	1	05/24/2021 12:41	<a href="#">WG1676247</a>
Xylenes, Total	0.0190		0.00300	1	05/24/2021 12:41	<a href="#">WG1676247</a>
Naphthalene	ND		0.00500	1	05/24/2021 12:41	<a href="#">WG1676247</a>
1,2,4-Trimethylbenzene	0.00101		0.00100	1	05/24/2021 12:41	<a href="#">WG1676247</a>
1,3,5-Trimethylbenzene	0.00131		0.00100	1	05/24/2021 12:41	<a href="#">WG1676247</a>
(S) Toluene-d8	91.4		80.0-120		05/24/2021 12:41	<a href="#">WG1676247</a>
(S) 4-Bromofluorobenzene	96.0		77.0-126		05/24/2021 12:41	<a href="#">WG1676247</a>
(S) 1,2-Dichloroethane-d4	108		70.0-130		05/24/2021 12:41	<a href="#">WG1676247</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1630		40.0	1	05/25/2021 18:00	<a href="#">WG1677321</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	89.9		20.0	20	05/27/2021 19:56	<a href="#">WG1678662</a>
Sulfate	779		100	20	05/27/2021 19:56	<a href="#">WG1678662</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00105		0.00100	1	05/24/2021 13:02	<a href="#">WG1676247</a>
Toluene	ND		0.00100	1	05/24/2021 13:02	<a href="#">WG1676247</a>
Ethylbenzene	ND		0.00100	1	05/24/2021 13:02	<a href="#">WG1676247</a>
Xylenes, Total	ND		0.00300	1	05/24/2021 13:02	<a href="#">WG1676247</a>
Naphthalene	ND		0.00500	1	05/24/2021 13:02	<a href="#">WG1676247</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	05/24/2021 13:02	<a href="#">WG1676247</a>
1,3,5-Trimethylbenzene	ND		0.00100	1	05/24/2021 13:02	<a href="#">WG1676247</a>
(S) Toluene-d8	96.1		80.0-120		05/24/2021 13:02	<a href="#">WG1676247</a>
(S) 4-Bromofluorobenzene	98.8		77.0-126		05/24/2021 13:02	<a href="#">WG1676247</a>
(S) 1,2-Dichloroethane-d4	110		70.0-130		05/24/2021 13:02	<a href="#">WG1676247</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	1430		20.0	1	05/25/2021 16:54	<a href="#">WG1677155</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	73.8		10.0	10	05/27/2021 20:13	<a href="#">WG1678662</a>
Sulfate	592		50.0	10	05/27/2021 20:13	<a href="#">WG1678662</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Benzene	0.164		0.00100	1	05/24/2021 13:24	<a href="#">WG1676247</a>
Toluene	0.328		0.00500	5	05/25/2021 12:40	<a href="#">WG1676791</a>
Ethylbenzene	0.00752		0.00100	1	05/24/2021 13:24	<a href="#">WG1676247</a>
Xylenes, Total	0.116		0.00300	1	05/24/2021 13:24	<a href="#">WG1676247</a>
Naphthalene	ND		0.00500	1	05/24/2021 13:24	<a href="#">WG1676247</a>
1,2,4-Trimethylbenzene	0.00345		0.00100	1	05/24/2021 13:24	<a href="#">WG1676247</a>
1,3,5-Trimethylbenzene	0.00342		0.00100	1	05/24/2021 13:24	<a href="#">WG1676247</a>
(S) Toluene-d8	96.6		80.0-120		05/24/2021 13:24	<a href="#">WG1676247</a>
(S) Toluene-d8	97.9		80.0-120		05/25/2021 12:40	<a href="#">WG1676791</a>
(S) 4-Bromofluorobenzene	99.5		77.0-126		05/24/2021 13:24	<a href="#">WG1676247</a>
(S) 4-Bromofluorobenzene	89.6		77.0-126		05/25/2021 12:40	<a href="#">WG1676791</a>
(S) 1,2-Dichloroethane-d4	107		70.0-130		05/24/2021 13:24	<a href="#">WG1676247</a>
(S) 1,2-Dichloroethane-d4	87.9		70.0-130		05/25/2021 12:40	<a href="#">WG1676791</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3659607-1 05/25/21 16:54

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1355042-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1355042-01 05/25/21 16:54 • (DUP) R3659607-3 05/25/21 16:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2800	2840	1	1.24		5

L1355337-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1355337-03 05/25/21 16:54 • (DUP) R3659607-4 05/25/21 16:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1430	1450	1	1.80		5

Laboratory Control Sample (LCS)

(LCS) R3659607-2 05/25/21 16:54

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8420	95.7	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3659982-1 05/25/21 18:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1356019-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1356019-03 05/25/21 18:00 • (DUP) R3659982-3 05/25/21 18:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	3140	2940	1	6.58	J3	5

L1356019-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1356019-04 05/25/21 18:00 • (DUP) R3659982-4 05/25/21 18:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1270	1250	1	2.06		5

Laboratory Control Sample (LCS)

(LCS) R3659982-2 05/25/21 18:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8670	98.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3660956-1 05/27/21 12:20

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1357212-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1357212-01 05/27/21 22:24 • (DUP) R3660956-4 05/27/21 16:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	58.2	58.2	1	0.162		15
Sulfate	47.6	48.6	1	2.22		15

L1358628-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1358628-09 05/27/21 21:18 • (DUP) R3660956-7 05/27/21 21:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	146	146	1	0.0599	E	15
Sulfate	62.3	62.1	1	0.181		15

Laboratory Control Sample (LCS)

(LCS) R3660956-2 05/27/21 12:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.7	99.1	80.0-120	
Sulfate	40.0	39.8	99.4	80.0-120	

L1357212-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1357212-02 05/27/21 18:02 • (MS) R3660956-5 05/27/21 18:18 • (MSD) R3660956-6 05/27/21 18:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	45.1	94.8	96.3	99.3	102	1	80.0-120			1.59	15
Sulfate	50.0	32.5	81.4	82.8	97.7	101	1	80.0-120			1.74	15



L1358628-11 Original Sample (OS) • Matrix Spike (MS)

(OS) L1358628-11 05/27/21 21:51 • (MS) R3660956-8 05/27/21 22:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	123	170	93.0	1	80.0-120	E
Sulfate	50.0	67.0	116	99.0	1	80.0-120	E

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3658687-2 05/24/21 10:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	98.5			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3658687-1 05/24/21 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00475	95.0	70.0-123	
Ethylbenzene	0.00500	0.00457	91.4	79.0-123	
Naphthalene	0.00500	0.00603	121	54.0-135	
Toluene	0.00500	0.00441	88.2	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00475	95.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00486	97.2	76.0-122	
Xylenes, Total	0.0150	0.0134	89.3	79.0-123	
(S) Toluene-d8			96.1	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			115	70.0-130	

1  
Cp

2  
Tc

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Ss

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Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3659852-3 05/25/21 09:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Toluene	U		0.000278	0.00100
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	83.8			77.0-126
(S) 1,2-Dichloroethane-d4	91.5			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3659852-1 05/25/21 08:50 • (LCSD) R3659852-2 05/25/21 09:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Toluene	0.00500	0.00472	0.00481	94.4	96.2	79.0-120			1.89	20
(S) Toluene-d8				94.7	95.4	80.0-120				
(S) 4-Bromofluorobenzene				90.9	90.2	77.0-126				
(S) 1,2-Dichloroethane-d4				88.1	86.1	70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

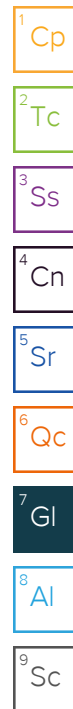
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.





# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group

240 Mesa Avenue

Grand Junction, CO 81501

Report to:

Stuart Hall

Project Description:

Baker Canyon Spill

Phone: 970-640-0568

Client Project #

Collected by (print):

J. McLarty

Collected by (signature):

Immediately

Packed on Ice N Y

Billing Information:

Stuart Hall

240 Mesa Ave.

Grand Junction, CO 81501

Email To:

shall@entradainc.com;

City/State

Collected:

DeBeque, CO

Please Circle:

PT MT CT ET

Lab Project #

ENTCONGJCO-915

P.O. #

Quote #

Date Results Needed

No. of

Cntrs

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

CHLORIDE, SULFATE 125mlHDPE-NoPres

TDS 250mlHDPE-NoPres

V8260 40mlAmb-HCI

MW-2

Grab

GW

5/18/21

1100

6

X

X

X

MW-4

1130

1

X

X

X

MW-5

1200

1

X

X

X

\* Matrix:

SS - Soil

AIR - Air

F - Filter

GW - Groundwater

B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Please Run for Table 915-1 GW

pH

Temp

Flow

Other

Samples returned via:

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp:

Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Chain of Custody

Page 1 of 1

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859

SDG #

L1355337

J048

Acctnum: ENTCONGJCO

Template: T180606

Prelogin: P822085

PM: 824 - Chris Ward

PB:

Shipped Via: FedEX Ground

Remarks

Sample # (lab only)

Sample Receipt Checklist

COC Seal Present/Intact: Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

If preservation required by Login: Date/Time

**Entrada Consulting Group**

Sample Delivery Group: L1359595  
Samples Received: 05/28/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

BAKER CANYON SW-1 L1359595-01 GW

Collected by  
J McLarty

Collected date/time  
05/27/21 10:30

Received date/time  
05/28/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1682163	1	06/03/21 10:41	06/03/21 13:14	KAB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1685371	10	06/11/21 04:21	06/11/21 04:21	ST	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1685371	5	06/11/21 03:02	06/11/21 03:02	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1683454	1	06/06/21 22:42	06/06/21 22:42	DWR	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1500		25.0	1	06/03/2021 13:14	<a href="#">WG1682163</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	95.5		5.00	5	06/11/2021 03:02	<a href="#">WG1685371</a>
Sulfate	598		50.0	10	06/11/2021 04:21	<a href="#">WG1685371</a>

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	06/06/2021 22:42	<a href="#">WG1683454</a>
Toluene	ND		0.00100	1	06/06/2021 22:42	<a href="#">WG1683454</a>
Ethylbenzene	ND		0.00100	1	06/06/2021 22:42	<a href="#">WG1683454</a>
Xylenes, Total	ND		0.00300	1	06/06/2021 22:42	<a href="#">WG1683454</a>
Naphthalene	ND		0.00500	1	06/06/2021 22:42	<a href="#">WG1683454</a>
1,2,4-Trimethylbenzene	ND		0.00100	1	06/06/2021 22:42	<a href="#">WG1683454</a>
1,3,5-Trimethylbenzene	ND		0.00100	1	06/06/2021 22:42	<a href="#">WG1683454</a>
(S) Toluene-d8	98.1		80.0-120		06/06/2021 22:42	<a href="#">WG1683454</a>
(S) 4-Bromofluorobenzene	101		77.0-126		06/06/2021 22:42	<a href="#">WG1683454</a>
(S) 1,2-Dichloroethane-d4	102		70.0-130		06/06/2021 22:42	<a href="#">WG1683454</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3663540-1 06/03/21 13:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1359462-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1359462-41 06/03/21 13:14 • (DUP) R3663540-3 06/03/21 13:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	2430	2440	1	0.411		5

L1359595-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1359595-01 06/03/21 13:14 • (DUP) R3663540-4 06/03/21 13:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1500	1490	1	0.501		5

Laboratory Control Sample (LCS)

(LCS) R3663540-2 06/03/21 13:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8580	97.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3666347-1 06/10/21 17:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1359462-30 Original Sample (OS) • Duplicate (DUP)

(OS) L1359462-30 06/10/21 19:37 • (DUP) R3666347-3 06/10/21 19:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	131	132	5	0.0171		15
Sulfate	165	166	5	0.409		15

L1359487-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1359487-07 06/11/21 01:42 • (DUP) R3666347-6 06/11/21 01:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	8.73	8.63	1	1.18		15
Sulfate	ND	ND	1	2.13		15

Laboratory Control Sample (LCS)

(LCS) R3666347-2 06/10/21 17:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.0	100	80.0-120	
Sulfate	40.0	40.5	101	80.0-120	

L1359462-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1359462-35 06/10/21 21:50 • (MS) R3666347-4 06/10/21 22:03 • (MSD) R3666347-5 06/10/21 22:17

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	51.5	101	100	98.3	97.5	1	80.0-120	E	E	0.361	15
Sulfate	50.0	ND	54.0	53.5	101	100	1	80.0-120			0.926	15



L1359487-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1359487-07 06/11/21 01:42 • (MS) R3666347-7 06/11/21 02:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	8.73	61.7	106	1	80.0-120	
Sulfate	50.0	ND	55.4	107	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3664013-3 06/06/21 17:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	97.2			80.0-120
(S) 4-Bromofluorobenzene	95.7			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3664013-1 06/06/21 16:38 • (LCSD) R3664013-2 06/06/21 16:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00457	0.00505	91.4	101	70.0-123			9.98	20
Ethylbenzene	0.00500	0.00444	0.00458	88.8	91.6	79.0-123			3.10	20
Naphthalene	0.00500	0.00360	0.00385	72.0	77.0	54.0-135			6.71	20
Toluene	0.00500	0.00441	0.00457	88.2	91.4	79.0-120			3.56	20
1,2,4-Trimethylbenzene	0.00500	0.00430	0.00455	86.0	91.0	76.0-121			5.65	20
1,3,5-Trimethylbenzene	0.00500	0.00448	0.00441	89.6	88.2	76.0-122			1.57	20
Xylenes, Total	0.0150	0.0130	0.0134	86.7	89.3	79.0-123			3.03	20
(S) Toluene-d8				97.0	97.2	80.0-120				
(S) 4-Bromofluorobenzene				100	101	77.0-126				
(S) 1,2-Dichloroethane-d4				103	111	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

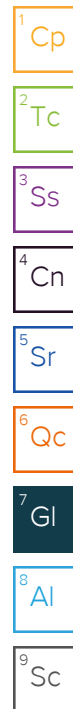
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
---	---



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





**Entrada Consulting Group**

Sample Delivery Group: L1365803

Samples Received: 06/12/2021

Project Number:

Description:

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# SAMPLE SUMMARY

## MW-1 L1365803-01 GW

Collected by J McLarty  
Collected date/time 06/11/21 09:30  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691031	1	06/18/21 12:37	06/18/21 13:42	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	10	06/24/21 06:15	06/24/21 06:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692203	1	06/21/21 02:03	06/21/21 02:03	DWR	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## MW-3 L1365803-02 GW

Collected by J McLarty  
Collected date/time 06/11/21 10:00  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691041	1	06/18/21 10:34	06/18/21 16:40	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	10	06/24/21 15:19	06/24/21 15:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1694781	5	06/24/21 18:55	06/24/21 18:55	BMB	Mt. Juliet, TN

## MW-4 L1365803-03 GW

Collected by J McLarty  
Collected date/time 06/11/21 10:20  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691041	1	06/18/21 10:34	06/18/21 16:40	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	20	06/24/21 15:33	06/24/21 15:33	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	20	06/25/21 09:06	06/25/21 09:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692203	1	06/21/21 02:41	06/21/21 02:41	DWR	Mt. Juliet, TN

## MW-2 L1365803-04 GW

Collected by J McLarty  
Collected date/time 06/11/21 10:50  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691038	1	06/18/21 13:47	06/18/21 14:59	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	20	06/24/21 15:46	06/24/21 15:46	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	20	06/25/21 09:19	06/25/21 09:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692203	1	06/21/21 03:00	06/21/21 03:00	DWR	Mt. Juliet, TN

## MW-5 L1365803-05 GW

Collected by J McLarty  
Collected date/time 06/11/21 11:20  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691038	1	06/18/21 13:47	06/18/21 14:59	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	10	06/24/21 15:59	06/24/21 15:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692203	1	06/21/21 07:45	06/21/21 07:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1693594	10	06/23/21 11:33	06/23/21 11:33	BMB	Mt. Juliet, TN

## SW-1 L1365803-06 GW

Collected by J McLarty  
Collected date/time 06/11/21 11:40  
Received date/time 06/12/21 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1691041	1	06/18/21 10:34	06/18/21 16:40	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	1	06/24/21 16:13	06/24/21 16:13	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1693574	10	06/24/21 08:01	06/24/21 08:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1692203	1	06/21/21 03:19	06/21/21 03:19	DWR	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

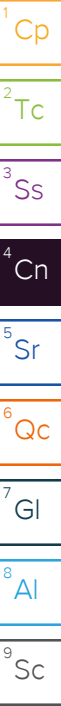


Chris Ward  
Project Manager

## Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1365803-01</a>	<a href="#">MW-1</a>	8260B
<a href="#">L1365803-02</a>	<a href="#">MW-3</a>	8260B
<a href="#">L1365803-03</a>	<a href="#">MW-4</a>	8260B
<a href="#">L1365803-04</a>	<a href="#">MW-2</a>	8260B



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1310		20.0	1	06/18/2021 13:42	<a href="#">WG1691031</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	71.7		3.79	10.0	10	06/24/2021 06:15	<a href="#">WG1693574</a>
Sulfate	523		5.94	50.0	10	06/24/2021 06:15	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000113	J	0.0000941	0.00100	1	06/21/2021 02:03	<a href="#">WG1692203</a>
Toluene	0.000688	J	0.000278	0.00100	1	06/21/2021 02:03	<a href="#">WG1692203</a>
Ethylbenzene	0.000500	J	0.000137	0.00100	1	06/21/2021 02:03	<a href="#">WG1692203</a>
Xylenes, Total	0.000403	J	0.000174	0.00300	1	06/21/2021 02:03	<a href="#">WG1692203</a>
Naphthalene	U		0.00100	0.00500	1	06/21/2021 02:03	<a href="#">WG1692203</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	06/21/2021 02:03	<a href="#">WG1692203</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	06/21/2021 02:03	<a href="#">WG1692203</a>
(S) Toluene-d8	104			80.0-120		06/21/2021 02:03	<a href="#">WG1692203</a>
(S) 4-Bromofluorobenzene	99.7			77.0-126		06/21/2021 02:03	<a href="#">WG1692203</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		06/21/2021 02:03	<a href="#">WG1692203</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1320		25.0	1	06/18/2021 16:40	<a href="#">WG1691041</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	73.2		3.79	10.0	10	06/24/2021 15:19	<a href="#">WG1693574</a>
Sulfate	577		5.94	50.0	10	06/24/2021 15:19	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000471	0.00500	5	06/24/2021 18:55	<a href="#">WG1694781</a>
Toluene	0.00149	J	0.00139	0.00500	5	06/24/2021 18:55	<a href="#">WG1694781</a>
Ethylbenzene	U		0.000685	0.00500	5	06/24/2021 18:55	<a href="#">WG1694781</a>
Xylenes, Total	0.00285	J	0.000870	0.0150	5	06/24/2021 18:55	<a href="#">WG1694781</a>
Naphthalene	U		0.00500	0.0250	5	06/24/2021 18:55	<a href="#">WG1694781</a>
1,2,4-Trimethylbenzene	U		0.00161	0.00500	5	06/24/2021 18:55	<a href="#">WG1694781</a>
1,3,5-Trimethylbenzene	0.00124	J	0.000520	0.00500	5	06/24/2021 18:55	<a href="#">WG1694781</a>
(S) Toluene-d8	111			80.0-120		06/24/2021 18:55	<a href="#">WG1694781</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		06/24/2021 18:55	<a href="#">WG1694781</a>
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		06/24/2021 18:55	<a href="#">WG1694781</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1860		50.0	1	06/18/2021 16:40	<a href="#">WG1691041</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	91.9	<a href="#">B</a>	7.58	20.0	20	06/25/2021 09:06	<a href="#">WG1693574</a>
Sulfate	915		11.9	100	20	06/24/2021 15:33	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	06/21/2021 02:41	<a href="#">WG1692203</a>
Toluene	U		0.000278	0.00100	1	06/21/2021 02:41	<a href="#">WG1692203</a>
Ethylbenzene	U		0.000137	0.00100	1	06/21/2021 02:41	<a href="#">WG1692203</a>
Xylenes, Total	0.000387	<a href="#">J</a>	0.000174	0.00300	1	06/21/2021 02:41	<a href="#">WG1692203</a>
Naphthalene	U		0.00100	0.00500	1	06/21/2021 02:41	<a href="#">WG1692203</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	06/21/2021 02:41	<a href="#">WG1692203</a>
1,3,5-Trimethylbenzene	0.000133	<a href="#">J</a>	0.000104	0.00100	1	06/21/2021 02:41	<a href="#">WG1692203</a>
(S) Toluene-d8	103			80.0-120		06/21/2021 02:41	<a href="#">WG1692203</a>
(S) 4-Bromofluorobenzene	99.3			77.0-126		06/21/2021 02:41	<a href="#">WG1692203</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/21/2021 02:41	<a href="#">WG1692203</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1970		25.0	1	06/18/2021 14:59	<a href="#">WG1691038</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	73.0	<a href="#">B</a>	7.58	20.0	20	06/25/2021 09:19	<a href="#">WG1693574</a>
Sulfate	652		11.9	100	20	06/24/2021 15:46	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0698		0.0000941	0.00100	1	06/21/2021 03:00	<a href="#">WG1692203</a>
Toluene	0.0469		0.000278	0.00100	1	06/21/2021 03:00	<a href="#">WG1692203</a>
Ethylbenzene	0.00437		0.000137	0.00100	1	06/21/2021 03:00	<a href="#">WG1692203</a>
Xylenes, Total	0.0636		0.000174	0.00300	1	06/21/2021 03:00	<a href="#">WG1692203</a>
Naphthalene	U		0.00100	0.00500	1	06/21/2021 03:00	<a href="#">WG1692203</a>
1,2,4-Trimethylbenzene	0.00249		0.000322	0.00100	1	06/21/2021 03:00	<a href="#">WG1692203</a>
1,3,5-Trimethylbenzene	0.00271		0.000104	0.00100	1	06/21/2021 03:00	<a href="#">WG1692203</a>
(S) Toluene-d8	101			80.0-120		06/21/2021 03:00	<a href="#">WG1692203</a>
(S) 4-Bromofluorobenzene	98.0			77.0-126		06/21/2021 03:00	<a href="#">WG1692203</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		06/21/2021 03:00	<a href="#">WG1692203</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1440		25.0	1	06/18/2021 14:59	<a href="#">WG1691038</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	71.9		3.79	10.0	10	06/24/2021 15:59	<a href="#">WG1693574</a>
Sulfate	613		5.94	50.0	10	06/24/2021 15:59	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.340		0.000941	0.0100	10	06/23/2021 11:33	<a href="#">WG1693594</a>
Toluene	0.741		0.00278	0.0100	10	06/23/2021 11:33	<a href="#">WG1693594</a>
Ethylbenzene	0.0219		0.000137	0.00100	1	06/21/2021 07:45	<a href="#">WG1692203</a>
Xylenes, Total	0.304		0.00174	0.0300	10	06/23/2021 11:33	<a href="#">WG1693594</a>
Naphthalene	U		0.00100	0.00500	1	06/21/2021 07:45	<a href="#">WG1692203</a>
1,2,4-Trimethylbenzene	0.00950		0.000322	0.00100	1	06/21/2021 07:45	<a href="#">WG1692203</a>
1,3,5-Trimethylbenzene	0.00798		0.000104	0.00100	1	06/21/2021 07:45	<a href="#">WG1692203</a>
(S) Toluene-d8	103			80.0-120		06/21/2021 07:45	<a href="#">WG1692203</a>
(S) Toluene-d8	110			80.0-120		06/23/2021 11:33	<a href="#">WG1693594</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		06/21/2021 07:45	<a href="#">WG1692203</a>
(S) 4-Bromofluorobenzene	98.9			77.0-126		06/23/2021 11:33	<a href="#">WG1693594</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/21/2021 07:45	<a href="#">WG1692203</a>
(S) 1,2-Dichloroethane-d4	89.9			70.0-130		06/23/2021 11:33	<a href="#">WG1693594</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1560		25.0	1	06/18/2021 16:40	<a href="#">WG1691041</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	98.1		0.379	1.00	1	06/24/2021 16:13	<a href="#">WG1693574</a>
Sulfate	702		5.94	50.0	10	06/24/2021 08:01	<a href="#">WG1693574</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	06/21/2021 03:19	<a href="#">WG1692203</a>
Toluene	U		0.000278	0.00100	1	06/21/2021 03:19	<a href="#">WG1692203</a>
Ethylbenzene	U		0.000137	0.00100	1	06/21/2021 03:19	<a href="#">WG1692203</a>
Xylenes, Total	U		0.000174	0.00300	1	06/21/2021 03:19	<a href="#">WG1692203</a>
Naphthalene	U		0.00100	0.00500	1	06/21/2021 03:19	<a href="#">WG1692203</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	06/21/2021 03:19	<a href="#">WG1692203</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	06/21/2021 03:19	<a href="#">WG1692203</a>
(S) Toluene-d8	105			80.0-120		06/21/2021 03:19	<a href="#">WG1692203</a>
(S) 4-Bromofluorobenzene	102			77.0-126		06/21/2021 03:19	<a href="#">WG1692203</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/21/2021 03:19	<a href="#">WG1692203</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3669568-1 06/18/21 13:42

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1367595-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1367595-02 06/18/21 13:42 • (DUP) R3669568-3 06/18/21 13:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1580	1590	1	0.504		5

L1367598-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1367598-03 06/18/21 13:42 • (DUP) R3669568-4 06/18/21 13:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1220	1200	1	1.66		5

Laboratory Control Sample (LCS)

(LCS) R3669568-2 06/18/21 13:42

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8520	96.8	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3669566-1 06/18/21 14:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1365579-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365579-01 06/18/21 14:59 • (DUP) R3669566-3 06/18/21 14:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	681	691	1	1.36		5

L1367589-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1367589-03 06/18/21 14:59 • (DUP) R3669566-4 06/18/21 14:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1170	1180	1	1.36		5

Laboratory Control Sample (LCS)

(LCS) R3669566-2 06/18/21 14:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8440	95.9	77.4-123	

Method Blank (MB)

(MB) R3669569-1 06/18/21 16:40

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1365560-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365560-01 06/18/21 16:40 • (DUP) R3669569-3 06/18/21 16:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	451	455	1	0.883		5

L1365803-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1365803-06 06/18/21 16:40 • (DUP) R3669569-4 06/18/21 16:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1560	1520	1	2.44		5

Laboratory Control Sample (LCS)

(LCS) R3669569-2 06/18/21 16:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8650	98.3	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3671864-1 06/24/21 04:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	0.599	J	0.379	1.00
Sulfate	U		0.594	5.00

L1366528-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1366528-01 06/24/21 08:54 • (DUP) R3671864-6 06/24/21 09:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	67.8	69.0	1	1.79		15

L1365683-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1365683-01 06/24/21 14:53 • (DUP) R3671864-8 06/24/21 15:06

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	0.493	0.416	1	16.8	J P1	15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3671864-2 06/24/21 04:29

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	41.2	103	80.0-120	

L1365683-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1365683-01 06/24/21 14:53 • (MS) R3671864-4 06/24/21 05:09 • (MSD) R3671864-5 06/24/21 05:22

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	U	51.0	47.1	102	94.1	1	80.0-120			8.05	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1366528-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1366528-01 06/24/21 08:54 • (MS) R3671864-7 06/24/21 09:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	67.8	112	88.1	1	80.0-120	E
Sulfate	50.0	98.8	132	67.3	1	80.0-120	E J6

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3670719-3 06/20/21 23:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3670719-1 06/20/21 22:49 • (LCSD) R3670719-2 06/20/21 23:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00523	0.00516	105	103	70.0-123			1.35	20
Ethylbenzene	0.00500	0.00495	0.00492	99.0	98.4	79.0-123			0.608	20
Naphthalene	0.00500	0.00445	0.00449	89.0	89.8	54.0-135			0.895	20
Toluene	0.00500	0.00507	0.00499	101	99.8	79.0-120			1.59	20
1,2,4-Trimethylbenzene	0.00500	0.00508	0.00510	102	102	76.0-121			0.393	20
1,3,5-Trimethylbenzene	0.00500	0.00509	0.00510	102	102	76.0-122			0.196	20
Xylenes, Total	0.0150	0.0149	0.0147	99.3	98.0	79.0-123			1.35	20
(S) Toluene-d8				102	102	80.0-120				
(S) 4-Bromofluorobenzene				99.3	99.0	77.0-126				
(S) 1,2-Dichloroethane-d4				111	110	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3671648-2 06/23/21 10:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	94.8			77.0-126
(S) 1,2-Dichloroethane-d4	92.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3671648-1 06/23/21 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00505	101	70.0-123	
Toluene	0.00500	0.00512	102	79.0-120	
Xylenes, Total	0.0150	0.0162	108	79.0-123	
(S) Toluene-d8			108	80.0-120	
(S) 4-Bromofluorobenzene			98.4	77.0-126	
(S) 1,2-Dichloroethane-d4			94.9	70.0-130	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3671809-4 06/24/21 18:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	115			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	95.2			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3671809-1 06/24/21 16:17 • (LCSD) R3671809-2 06/24/21 16:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00442	0.00468	88.4	93.6	70.0-123			5.71	20
Ethylbenzene	0.00500	0.00421	0.00454	84.2	90.8	79.0-123			7.54	20
Naphthalene	0.00500	0.00351	0.00417	70.2	83.4	54.0-135			17.2	20
Toluene	0.00500	0.00477	0.00494	95.4	98.8	79.0-120			3.50	20
1,2,4-Trimethylbenzene	0.00500	0.00393	0.00426	78.6	85.2	76.0-121			8.06	20
1,3,5-Trimethylbenzene	0.00500	0.00442	0.00426	88.4	85.2	76.0-122			3.69	20
Xylenes, Total	0.0150	0.0135	0.0141	90.0	94.0	79.0-123			4.35	20
(S) Toluene-d8				114	115	80.0-120				
(S) 4-Bromofluorobenzene				99.1	99.9	77.0-126				
(S) 1,2-Dichloroethane-d4				96.4	96.1	70.0-130				

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

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Qc

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Gl

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Al

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Sc



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

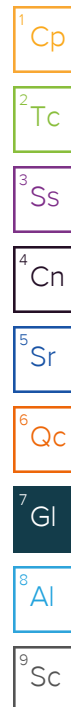
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



# ACCREDITATIONS & LOCATIONS

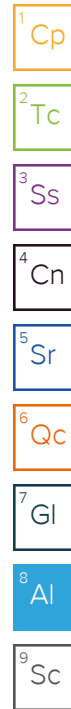
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



# Entrada Consulting Group

330 Grand Ave, Unit C  
Grand Junction, CO 81501

## Billing Information:

Stuart Hall  
330 Grand Ave, Unit C  
Grand Junction, CO 81501

Pres  
Chk

## Analysis / Container / Preservative

Chain of Custody Page \_\_\_\_ of \_\_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG # **L136503**

**E218**

Table #

Acctnum: **ENTCONGJCO**

Template: **T180606**

Prelogin: **P822085**

PM: **824 - Chris Ward**

PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Report to:

Stuart Hall

Email To: [shall@entradainc.com](mailto:shall@entradainc.com)

Project Description:

**Baker Canyon Spill**

City/State  
Collected:

**DeBeque, CO**

Please Circle:

PT **MT** CT ET

Phone: **970-640-0568**

Client Project #

Lab Project #

**ENTCONGJCO-915**

Collected by (print):

**JMcLarty**

Site/Facility ID #

P.O. #

Collected by (signature):

*[Signature]*

**Rush?** (Lab MUST Be Notified)

\_\_\_ Same Day ☒ Five Day

\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)

\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)

\_\_\_ Three Day

Quote #

Date Results Needed

No.  
of  
Cnts

Immediately

Packed on Ice N \_\_\_ Y ☒

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

MW1

Grab

GW

6/11/21

830

4

X

X

X

MW3

↓

↓

↓

1000

4

X

X

X

MW4

↓

↓

↓

1020

4

X

X

X

MW2

↓

↓

↓

1050

4

X

X

X

MW5

↓

↓

↓

1120

4

X

X

X

SW1

↓

SW

↓

1140

4

X

X

X

-01

-02

-03

-04

-05

-06

\* Matrix:

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **5016 1232 4679**

## Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N  
COC Signed/Accurate: ☒ Y ☐ N  
Bottles arrive intact: ☒ Y ☐ N  
Correct bottles used: ☒ Y ☐ N  
Sufficient volume sent: ☒ Y ☐ N  
**If Applicable**  
VOA Zero Headspace: ☒ Y ☐ N  
Preservation Correct/Checked: ☒ Y ☐ N  
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)

*[Signature]*

Date:

**6/11/21**

Time:

**1600**

Received by: (Signature)

*[Signature]*

Trip Blank Received: Yes ☒ No ☐

HCL / MeOH  
TBR

Relinquished by: (Signature)

*[Signature]*

Date:

**6/11/21**

Time:

**1700**

Received by: (Signature)

*[Signature]*

Temp: **6-2-4** °C

Bottles Received: **24**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

*[Signature]*

Date:

**6-12-21**

Time:

**10:00**

Received for lab by: (Signature)

*[Signature]*

Date:

**6-12-21**

Time:

**10:00**

Hold:

Condition:

NCF / **100**

**Entrada Consulting Group**

Sample Delivery Group: L1372469  
Samples Received: 06/26/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



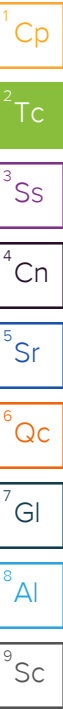
Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## MW1 L1372469-01 GW

Collected by J McLarty  
Collected date/time 06/25/21 09:30  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699170	1	07/02/21 15:33	07/02/21 16:57	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	1	07/14/21 19:49	07/14/21 19:49	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	5	07/14/21 20:02	07/14/21 20:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1698592	1	07/01/21 17:03	07/01/21 17:03	BMB	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

## MW2 L1372469-02 GW

Collected by J McLarty  
Collected date/time 06/25/21 09:50  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699170	1	07/02/21 15:33	07/02/21 16:57	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	10	07/15/21 09:44	07/15/21 09:44	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	5	07/14/21 20:15	07/14/21 20:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1698592	1	07/01/21 17:22	07/01/21 17:22	BMB	Mt. Juliet, TN

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

## MW3 L1372469-03 GW

Collected by J McLarty  
Collected date/time 06/25/21 10:20  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699165	1	07/02/21 11:57	07/02/21 12:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	10	07/15/21 09:59	07/15/21 09:59	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	5	07/14/21 20:28	07/14/21 20:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1702487	1	07/09/21 11:43	07/09/21 11:43	BMB	Mt. Juliet, TN

<sup>9</sup> Sc

## MW4 L1372469-04 GW

Collected by J McLarty  
Collected date/time 06/25/21 10:40  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699170	1	07/02/21 15:33	07/02/21 16:57	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	10	07/15/21 10:12	07/15/21 10:12	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	5	07/14/21 20:41	07/14/21 20:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1698592	1	07/01/21 17:41	07/01/21 17:41	BMB	Mt. Juliet, TN

## MW5 L1372469-05 GW

Collected by J McLarty  
Collected date/time 06/25/21 11:00  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699170	1	07/02/21 15:33	07/02/21 16:57	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	10	07/15/21 10:26	07/15/21 10:26	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	5	07/14/21 20:54	07/14/21 20:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1698592	10	07/01/21 18:38	07/01/21 18:38	BMB	Mt. Juliet, TN

## SW1 L1372469-06 GW

Collected by J McLarty  
Collected date/time 06/25/21 11:15  
Received date/time 06/26/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1699165	1	07/02/21 11:57	07/02/21 12:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1704443	10	07/14/21 21:07	07/14/21 21:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1698592	1	07/01/21 18:00	07/01/21 18:00	BMB	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1070		20.0	1	07/02/2021 16:57	<a href="#">WG1699170</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	72.8		0.379	1.00	1	07/14/2021 19:49	<a href="#">WG1704443</a>
Sulfate	386		2.97	25.0	5	07/14/2021 20:02	<a href="#">WG1704443</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000138	<a href="#">J</a>	0.0000941	0.00100	1	07/01/2021 17:03	<a href="#">WG1698592</a>
Toluene	0.000824	<a href="#">J</a>	0.000278	0.00100	1	07/01/2021 17:03	<a href="#">WG1698592</a>
Ethylbenzene	0.000544	<a href="#">J</a>	0.000137	0.00100	1	07/01/2021 17:03	<a href="#">WG1698592</a>
Xylenes, Total	0.000479	<a href="#">J</a>	0.000174	0.00300	1	07/01/2021 17:03	<a href="#">WG1698592</a>
Naphthalene	U	<a href="#">J4</a>	0.00100	0.00500	1	07/01/2021 17:03	<a href="#">WG1698592</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/01/2021 17:03	<a href="#">WG1698592</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/01/2021 17:03	<a href="#">WG1698592</a>
(S) Toluene-d8	97.2			80.0-120		07/01/2021 17:03	<a href="#">WG1698592</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/01/2021 17:03	<a href="#">WG1698592</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/01/2021 17:03	<a href="#">WG1698592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1350		25.0	1	07/02/2021 16:57	<a href="#">WG1699170</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	82.8		1.90	5.00	5	07/14/2021 20:15	<a href="#">WG1704443</a>
Sulfate	599		5.94	50.0	10	07/15/2021 09:44	<a href="#">WG1704443</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0425		0.0000941	0.00100	1	07/01/2021 17:22	<a href="#">WG1698592</a>
Toluene	0.00572		0.000278	0.00100	1	07/01/2021 17:22	<a href="#">WG1698592</a>
Ethylbenzene	0.00296		0.000137	0.00100	1	07/01/2021 17:22	<a href="#">WG1698592</a>
Xylenes, Total	0.0413		0.000174	0.00300	1	07/01/2021 17:22	<a href="#">WG1698592</a>
Naphthalene	U	<a href="#">J4</a>	0.00100	0.00500	1	07/01/2021 17:22	<a href="#">WG1698592</a>
1,2,4-Trimethylbenzene	0.00146		0.000322	0.00100	1	07/01/2021 17:22	<a href="#">WG1698592</a>
1,3,5-Trimethylbenzene	0.00131		0.000104	0.00100	1	07/01/2021 17:22	<a href="#">WG1698592</a>
(S) Toluene-d8	95.9			80.0-120		07/01/2021 17:22	<a href="#">WG1698592</a>
(S) 4-Bromofluorobenzene	99.7			77.0-126		07/01/2021 17:22	<a href="#">WG1698592</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/01/2021 17:22	<a href="#">WG1698592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1330		25.0	1	07/02/2021 12:53	<a href="#">WG1699165</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	79.0		1.90	5.00	5	07/14/2021 20:28	<a href="#">WG1704443</a>
Sulfate	565		5.94	50.0	10	07/15/2021 09:59	<a href="#">WG1704443</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.0647		0.0000941	0.00100	1	07/09/2021 11:43	<a href="#">WG1702487</a>
Toluene	0.103		0.000278	0.00100	1	07/09/2021 11:43	<a href="#">WG1702487</a>
Ethylbenzene	0.00716		0.000137	0.00100	1	07/09/2021 11:43	<a href="#">WG1702487</a>
Xylenes, Total	0.113		0.000174	0.00300	1	07/09/2021 11:43	<a href="#">WG1702487</a>
Naphthalene	U		0.00100	0.00500	1	07/09/2021 11:43	<a href="#">WG1702487</a>
1,2,4-Trimethylbenzene	0.00319		0.000322	0.00100	1	07/09/2021 11:43	<a href="#">WG1702487</a>
1,3,5-Trimethylbenzene	0.00320		0.000104	0.00100	1	07/09/2021 11:43	<a href="#">WG1702487</a>
(S) Toluene-d8	107			80.0-120		07/09/2021 11:43	<a href="#">WG1702487</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		07/09/2021 11:43	<a href="#">WG1702487</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		07/09/2021 11:43	<a href="#">WG1702487</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1920		50.0	1	07/02/2021 16:57	<a href="#">WG1699170</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	100		1.90	5.00	5	07/14/2021 20:41	<a href="#">WG1704443</a>
Sulfate	907		5.94	50.0	10	07/15/2021 10:12	<a href="#">WG1704443</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000171	<u>J</u>	0.0000941	0.00100	1	07/01/2021 17:41	<a href="#">WG1698592</a>
Toluene	U		0.000278	0.00100	1	07/01/2021 17:41	<a href="#">WG1698592</a>
Ethylbenzene	U		0.000137	0.00100	1	07/01/2021 17:41	<a href="#">WG1698592</a>
Xylenes, Total	0.000252	<u>J</u>	0.000174	0.00300	1	07/01/2021 17:41	<a href="#">WG1698592</a>
Naphthalene	U	<u>J4</u>	0.00100	0.00500	1	07/01/2021 17:41	<a href="#">WG1698592</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/01/2021 17:41	<a href="#">WG1698592</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/01/2021 17:41	<a href="#">WG1698592</a>
(S) Toluene-d8	96.4			80.0-120		07/01/2021 17:41	<a href="#">WG1698592</a>
(S) 4-Bromofluorobenzene	99.7			77.0-126		07/01/2021 17:41	<a href="#">WG1698592</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/01/2021 17:41	<a href="#">WG1698592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1460		25.0	1	07/02/2021 16:57	<a href="#">WG1699170</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	83.3		1.90	5.00	5	07/14/2021 20:54	<a href="#">WG1704443</a>
Sulfate	599		5.94	50.0	10	07/15/2021 10:26	<a href="#">WG1704443</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.361		0.000941	0.0100	10	07/01/2021 18:38	<a href="#">WG1698592</a>
Toluene	0.419		0.00278	0.0100	10	07/01/2021 18:38	<a href="#">WG1698592</a>
Ethylbenzene	0.0115		0.00137	0.0100	10	07/01/2021 18:38	<a href="#">WG1698592</a>
Xylenes, Total	0.187		0.00174	0.0300	10	07/01/2021 18:38	<a href="#">WG1698592</a>
Naphthalene	U	<a href="#">J4</a>	0.0100	0.0500	10	07/01/2021 18:38	<a href="#">WG1698592</a>
1,2,4-Trimethylbenzene	0.00435	<a href="#">J</a>	0.00322	0.0100	10	07/01/2021 18:38	<a href="#">WG1698592</a>
1,3,5-Trimethylbenzene	0.00384	<a href="#">J</a>	0.00104	0.0100	10	07/01/2021 18:38	<a href="#">WG1698592</a>
(S) Toluene-d8	97.4			80.0-120		07/01/2021 18:38	<a href="#">WG1698592</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/01/2021 18:38	<a href="#">WG1698592</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/01/2021 18:38	<a href="#">WG1698592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1430		25.0	1	07/02/2021 12:53	<a href="#">WG1699165</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	99.2		3.79	10.0	10	07/14/2021 21:07	<a href="#">WG1704443</a>
Sulfate	625		5.94	50.0	10	07/14/2021 21:07	<a href="#">WG1704443</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/01/2021 18:00	<a href="#">WG1698592</a>
Toluene	U		0.000278	0.00100	1	07/01/2021 18:00	<a href="#">WG1698592</a>
Ethylbenzene	U		0.000137	0.00100	1	07/01/2021 18:00	<a href="#">WG1698592</a>
Xylenes, Total	U		0.000174	0.00300	1	07/01/2021 18:00	<a href="#">WG1698592</a>
Naphthalene	U	<a href="#">J4</a>	0.00100	0.00500	1	07/01/2021 18:00	<a href="#">WG1698592</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/01/2021 18:00	<a href="#">WG1698592</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/01/2021 18:00	<a href="#">WG1698592</a>
(S) Toluene-d8	96.3			80.0-120		07/01/2021 18:00	<a href="#">WG1698592</a>
(S) 4-Bromofluorobenzene	100			77.0-126		07/01/2021 18:00	<a href="#">WG1698592</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/01/2021 18:00	<a href="#">WG1698592</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3675648-1 07/02/21 12:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1371475-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1371475-04 07/02/21 12:53 • (DUP) R3675648-3 07/02/21 12:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1040	1040	1	0.769		5

L1372469-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1372469-06 07/02/21 12:53 • (DUP) R3675648-4 07/02/21 12:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1430	1410	1	1.06		5

Laboratory Control Sample (LCS)

(LCS) R3675648-2 07/02/21 12:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8810	100	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3675760-1 07/02/21 16:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1371632-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1371632-03 07/02/21 16:57 • (DUP) R3675760-3 07/02/21 16:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	510	512	1	0.391		5

L1371945-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1371945-01 07/02/21 16:57 • (DUP) R3675760-4 07/02/21 16:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1040	1080	1	3.95		5

Laboratory Control Sample (LCS)

(LCS) R3675760-2 07/02/21 16:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8820	100	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3679465-1 07/14/21 10:38

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1372318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1372318-01 07/14/21 12:35 • (DUP) R3679465-3 07/14/21 12:48

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	10.1	9.32	1	7.51		15

L1372318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1372318-01 07/14/21 22:11 • (DUP) R3679465-8 07/14/21 22:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	104	107	5	2.38		15

L1372363-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1372363-05 07/14/21 23:16 • (DUP) R3679465-9 07/14/21 23:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	8.71	9.11	1	4.49		15
Sulfate	63.6	66.4	1	4.20		15

Laboratory Control Sample (LCS)

(LCS) R3679465-2 07/14/21 12:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	44.8	112	80.0-120	
Sulfate	40.0	45.9	115	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



L1372318-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1372318-02 07/14/21 13:01 • (MS) R3679465-4 07/14/21 13:14 • (MSD) R3679465-5 07/14/21 13:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	2.66	58.5	58.8	112	112	1	80.0-120			0.483	15
Sulfate	50.0	51.6	106	106	109	109	1	80.0-120	E	E	0.0880	15

L1372363-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1372363-06 07/14/21 18:06 • (MS) R3679465-7 07/14/21 18:19

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	9.85	64.6	109	1	80.0-120	
Sulfate	50.0	63.0	114	103	1	80.0-120	E

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3677342-3 07/01/21 07:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	98.5			80.0-120
(S) 4-Bromofluorobenzene	103			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3677342-1 07/01/21 06:53 • (LCSD) R3677342-2 07/01/21 07:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00587	0.00607	117	121	70.0-123			3.35	20
Ethylbenzene	0.00500	0.00536	0.00554	107	111	79.0-123			3.30	20
Naphthalene	0.00500	0.00675	0.00697	135	139	54.0-135		J4	3.21	20
Toluene	0.00500	0.00521	0.00548	104	110	79.0-120			5.05	20
1,2,4-Trimethylbenzene	0.00500	0.00493	0.00525	98.6	105	76.0-121			6.29	20
1,3,5-Trimethylbenzene	0.00500	0.00502	0.00530	100	106	76.0-122			5.43	20
Xylenes, Total	0.0150	0.0162	0.0171	108	114	79.0-123			5.41	20
(S) Toluene-d8				94.9	95.0	80.0-120				
(S) 4-Bromofluorobenzene				101	102	77.0-126				
(S) 1,2-Dichloroethane-d4				111	111	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3677933-2 07/09/21 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	94.1			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3677933-1 07/09/21 09:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00547	109	70.0-123	
Ethylbenzene	0.00500	0.00540	108	79.0-123	
Naphthalene	0.00500	0.00541	108	54.0-135	
Toluene	0.00500	0.00533	107	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00535	107	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00532	106	76.0-122	
Xylenes, Total	0.0150	0.0161	107	79.0-123	
(S) Toluene-d8			97.6	80.0-120	
(S) 4-Bromofluorobenzene			93.5	77.0-126	
(S) 1,2-Dichloroethane-d4			118	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

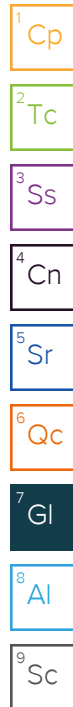
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



<b>Entrada Consulting Group</b>  330 Grand Ave, Unit C Grand Junction, CO 81501				Billing Information: <b>Stuart Hall</b> 330 Grand Ave, Unit C Grand Junction, CO 81501				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page ____ of ____					
Report to: <b>Stuart Hall</b>				Email To: shall@entradainc.com;																Pace Analytical® National Center for Testing & Innovation					
Project Description: <b>Baker Canyon Spill</b>				City/State Collected: <b>DeBeque, CO</b>		Please Circle: PT <b>(MT)</b> CT ET														12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859					
Phone: <b>970-640-0568</b>		Client Project #		Lab Project # <b>ENTCONGJCO-915</b>																SDG # <b>L1372469</b>					
Collected by (print): <b>J McLarty</b>		Site/Facility ID #		P.O. #																Table #					
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) ____ Same Day ____ <input checked="" type="checkbox"/> Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #																Acctnum: <b>ENTCONGJCO</b>					
Immediately Packed on Ice N ____ Y <input checked="" type="checkbox"/>				Date Results Needed		No. of Cnts														Template: <b>T180606</b>					
Sample ID		Comp/Grab		Matrix *		Depth		Date		Time														Shipped Via: <b>FedEX Ground</b>	
MW1		Grab		GW				6/25/21		930		4		X		X		X						-01	
MW2		↓		↓				↓		950		4		X		X		X						02	
MW3		↓		↓				↓		1020		4		X		X		X						03	
MW4		↓		↓				↓		1040		4		X		X		X						04	
MW5		↓		↓				↓		1100		4		X		X		X						05	
SW1		↓		SW				↓		1115		4		X		X		X						06	



L1372469 WALTERGJCO NCF

R5

Time estimate: oh      Time spent: oh      Grouping date: 30 June 2021

Members

 Jeremy Watkins (responsible)       Chris Ward

- ☐ Login Clarification needed
- ☐ Chain of custody is incomplete
- ☐ Please specify Metals requested
- ☐ Please specify TCLP requested
- ☐ Received additional samples not listed on COC
- ☐ Sample IDs on containers do not match IDs on COC
- ☐ Client did not "X" analysis
- ☒ Chain of Custody is missing
- ☒ If no COC: Received by:
- ☒ If no COC: Date/Time: 6/26/21 0930
- ☒ If no COC: Temp./Cont.Rec./pH: 30 Cont.
- ☒ If no COC: Carrier: FedEx
- ☒ If no COC: Tracking #: 501612324576
- ☐ Client informed by call
- ☒ Client informed by Email
- ☐ Client informed by Voicemail
- ☒ Date/Time: 6/28/21@1345
- ☒ PM initials: CMW
- ☒ Client Contact: Jason McLarty

Comments

Jeremy Watkins Received ID's: MW1, MW2, MW3, MW4, MW5 and SW1 no COC No Project info on the containers	26 June 2021 7:22 PM
Chris Ward This is ENTCONGJCO Use attached COC	28 June 2021 1:46 PM
Jeremy Watkins Done	30 June 2021 8:33 AM

**Entrada Consulting Group**

Sample Delivery Group: L1376804  
Samples Received: 07/10/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

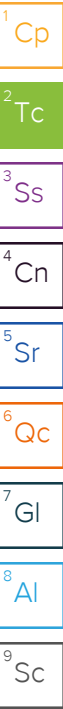
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**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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# SAMPLE SUMMARY

## MW-1 L1376804-01 GW

Collected by J McLarty  
Collected date/time 07/09/21 09:15  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705805	1	07/15/21 12:04	07/15/21 15:25	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	1	07/19/21 11:08	07/19/21 11:08	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	5	07/17/21 18:09	07/17/21 18:09	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1704656	1	07/14/21 04:22	07/14/21 04:22	ADM	Mt. Juliet, TN

## MW-2 L1376804-02 GW

Collected by J McLarty  
Collected date/time 07/09/21 09:45  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705805	1	07/15/21 12:04	07/15/21 15:25	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	10	07/18/21 00:54	07/18/21 00:54	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1704656	1	07/14/21 04:45	07/14/21 04:45	ADM	Mt. Juliet, TN

## MW-3 L1376804-03 GW

Collected by J McLarty  
Collected date/time 07/09/21 10:15  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705805	1	07/15/21 12:04	07/15/21 15:25	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	10	07/18/21 01:12	07/18/21 01:12	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1705615	1	07/15/21 11:58	07/15/21 11:58	JAH	Mt. Juliet, TN

## MW-4 L1376804-04 GW

Collected by J McLarty  
Collected date/time 07/09/21 10:45  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705805	1	07/15/21 12:04	07/15/21 15:25	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	20	07/19/21 11:45	07/19/21 11:45	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1704839	1	07/14/21 04:27	07/14/21 04:27	BMB	Mt. Juliet, TN

## MW-5 L1376804-05 GW

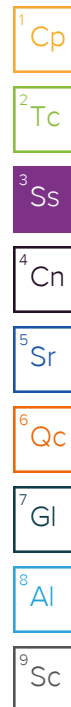
Collected by J McLarty  
Collected date/time 07/09/21 11:15  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705805	1	07/15/21 12:04	07/15/21 15:25	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	10	07/19/21 12:03	07/19/21 12:03	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1704839	10	07/14/21 06:39	07/14/21 06:39	BMB	Mt. Juliet, TN

## SW-1 L1376804-06 GW

Collected by J McLarty  
Collected date/time 07/09/21 11:30  
Received date/time 07/10/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1705800	1	07/15/21 10:29	07/15/21 11:59	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1707057	10	07/19/21 12:22	07/19/21 12:22	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1704839	1	07/14/21 04:46	07/14/21 04:46	BMB	Mt. Juliet, TN



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1040		20.0	1	07/15/2021 15:25	<a href="#">WG1705805</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	67.7		0.379	1.00	1	07/19/2021 11:08	<a href="#">WG1707057</a>
Sulfate	331		2.97	25.0	5	07/17/2021 18:09	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0000970	J	0.0000941	0.00100	1	07/14/2021 04:22	<a href="#">WG1704656</a>
Toluene	0.000719	J	0.000278	0.00100	1	07/14/2021 04:22	<a href="#">WG1704656</a>
Ethylbenzene	0.000412	J	0.000137	0.00100	1	07/14/2021 04:22	<a href="#">WG1704656</a>
Xylenes, Total	0.000353	J	0.000174	0.00300	1	07/14/2021 04:22	<a href="#">WG1704656</a>
Naphthalene	U		0.00100	0.00500	1	07/14/2021 04:22	<a href="#">WG1704656</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/14/2021 04:22	<a href="#">WG1704656</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/14/2021 04:22	<a href="#">WG1704656</a>
(S) Toluene-d8	103			80.0-120		07/14/2021 04:22	<a href="#">WG1704656</a>
(S) 4-Bromofluorobenzene	88.4			77.0-126		07/14/2021 04:22	<a href="#">WG1704656</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/14/2021 04:22	<a href="#">WG1704656</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1310		25.0	1	07/15/2021 15:25	<a href="#">WG1705805</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	75.3		3.79	10.0	10	07/18/2021 00:54	<a href="#">WG1707057</a>
Sulfate	621		5.94	50.0	10	07/18/2021 00:54	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0280		0.0000941	0.00100	1	07/14/2021 04:45	<a href="#">WG1704656</a>
Toluene	0.00628		0.000278	0.00100	1	07/14/2021 04:45	<a href="#">WG1704656</a>
Ethylbenzene	0.00194		0.000137	0.00100	1	07/14/2021 04:45	<a href="#">WG1704656</a>
Xylenes, Total	0.0317		0.000174	0.00300	1	07/14/2021 04:45	<a href="#">WG1704656</a>
Naphthalene	U		0.00100	0.00500	1	07/14/2021 04:45	<a href="#">WG1704656</a>
1,2,4-Trimethylbenzene	0.000849	J	0.000322	0.00100	1	07/14/2021 04:45	<a href="#">WG1704656</a>
1,3,5-Trimethylbenzene	0.00157		0.000104	0.00100	1	07/14/2021 04:45	<a href="#">WG1704656</a>
(S) Toluene-d8	103			80.0-120		07/14/2021 04:45	<a href="#">WG1704656</a>
(S) 4-Bromofluorobenzene	88.7			77.0-126		07/14/2021 04:45	<a href="#">WG1704656</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/14/2021 04:45	<a href="#">WG1704656</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1500		25.0	1	07/15/2021 15:25	<a href="#">WG1705805</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	66.3		3.79	10.0	10	07/18/2021 01:12	<a href="#">WG1707057</a>
Sulfate	496		5.94	50.0	10	07/18/2021 01:12	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00301		0.0000941	0.00100	1	07/15/2021 11:58	<a href="#">WG1705615</a>
Toluene	0.00128		0.000278	0.00100	1	07/15/2021 11:58	<a href="#">WG1705615</a>
Ethylbenzene	0.000329	J	0.000137	0.00100	1	07/15/2021 11:58	<a href="#">WG1705615</a>
Xylenes, Total	0.00490		0.000174	0.00300	1	07/15/2021 11:58	<a href="#">WG1705615</a>
Naphthalene	U		0.00100	0.00500	1	07/15/2021 11:58	<a href="#">WG1705615</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/15/2021 11:58	<a href="#">WG1705615</a>
1,3,5-Trimethylbenzene	0.000181	J	0.000104	0.00100	1	07/15/2021 11:58	<a href="#">WG1705615</a>
(S) Toluene-d8	92.4			80.0-120		07/15/2021 11:58	<a href="#">WG1705615</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		07/15/2021 11:58	<a href="#">WG1705615</a>
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		07/15/2021 11:58	<a href="#">WG1705615</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2170		50.0	1	07/15/2021 15:25	<a href="#">WG1705805</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	97.9		7.58	20.0	20	07/19/2021 11:45	<a href="#">WG1707057</a>
Sulfate	1030		11.9	100	20	07/19/2021 11:45	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/14/2021 04:27	<a href="#">WG1704839</a>
Toluene	U		0.000278	0.00100	1	07/14/2021 04:27	<a href="#">WG1704839</a>
Ethylbenzene	U		0.000137	0.00100	1	07/14/2021 04:27	<a href="#">WG1704839</a>
Xylenes, Total	0.000196	J	0.000174	0.00300	1	07/14/2021 04:27	<a href="#">WG1704839</a>
Naphthalene	U		0.00100	0.00500	1	07/14/2021 04:27	<a href="#">WG1704839</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/14/2021 04:27	<a href="#">WG1704839</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/14/2021 04:27	<a href="#">WG1704839</a>
(S) Toluene-d8	102			80.0-120		07/14/2021 04:27	<a href="#">WG1704839</a>
(S) 4-Bromofluorobenzene	105			77.0-126		07/14/2021 04:27	<a href="#">WG1704839</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		07/14/2021 04:27	<a href="#">WG1704839</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1410		25.0	1	07/15/2021 15:25	<a href="#">WG1705805</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	70.4		3.79	10.0	10	07/19/2021 12:03	<a href="#">WG1707057</a>
Sulfate	589		5.94	50.0	10	07/19/2021 12:03	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.180		0.000941	0.0100	10	07/14/2021 06:39	<a href="#">WG1704839</a>
Toluene	0.0583		0.00278	0.0100	10	07/14/2021 06:39	<a href="#">WG1704839</a>
Ethylbenzene	0.00202	J	0.00137	0.0100	10	07/14/2021 06:39	<a href="#">WG1704839</a>
Xylenes, Total	0.0309		0.00174	0.0300	10	07/14/2021 06:39	<a href="#">WG1704839</a>
Naphthalene	U		0.0100	0.0500	10	07/14/2021 06:39	<a href="#">WG1704839</a>
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	07/14/2021 06:39	<a href="#">WG1704839</a>
1,3,5-Trimethylbenzene	U		0.00104	0.0100	10	07/14/2021 06:39	<a href="#">WG1704839</a>
(S) Toluene-d8	98.6			80.0-120		07/14/2021 06:39	<a href="#">WG1704839</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/14/2021 06:39	<a href="#">WG1704839</a>
(S) 1,2-Dichloroethane-d4	127			70.0-130		07/14/2021 06:39	<a href="#">WG1704839</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1520		25.0	1	07/15/2021 11:59	<a href="#">WG1705800</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	86.7		3.79	10.0	10	07/19/2021 12:22	<a href="#">WG1707057</a>
Sulfate	584		5.94	50.0	10	07/19/2021 12:22	<a href="#">WG1707057</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	07/14/2021 04:46	<a href="#">WG1704839</a>
Toluene	U		0.000278	0.00100	1	07/14/2021 04:46	<a href="#">WG1704839</a>
Ethylbenzene	U		0.000137	0.00100	1	07/14/2021 04:46	<a href="#">WG1704839</a>
Xylenes, Total	U		0.000174	0.00300	1	07/14/2021 04:46	<a href="#">WG1704839</a>
Naphthalene	U		0.00100	0.00500	1	07/14/2021 04:46	<a href="#">WG1704839</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/14/2021 04:46	<a href="#">WG1704839</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/14/2021 04:46	<a href="#">WG1704839</a>
(S) Toluene-d8	99.7			80.0-120		07/14/2021 04:46	<a href="#">WG1704839</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		07/14/2021 04:46	<a href="#">WG1704839</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/14/2021 04:46	<a href="#">WG1704839</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3680702-1 07/15/21 11:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1376571-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1376571-01 07/15/21 11:59 • (DUP) R3680702-3 07/15/21 11:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1060	1080	1	2.24		5

L1377736-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1377736-01 07/15/21 11:59 • (DUP) R3680702-4 07/15/21 11:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	980	978	1	0.204		5

Laboratory Control Sample (LCS)

(LCS) R3680702-2 07/15/21 11:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8840	100	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3680701-1 07/15/21 15:25

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1376804-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1376804-05 07/15/21 15:25 • (DUP) R3680701-3 07/15/21 15:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1410	1400	1	1.25		5

L1377803-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1377803-01 07/15/21 15:25 • (DUP) R3680701-4 07/15/21 15:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1500	1520	1	0.995		5

Laboratory Control Sample (LCS)

(LCS) R3680701-2 07/15/21 15:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8830	100	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3681181-1 07/17/21 10:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1376804-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1376804-03 07/18/21 01:12 • (DUP) R3681181-6 07/18/21 01:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	66.3	69.5	10	4.78		15
Sulfate	496	518	10	4.42		15

Laboratory Control Sample (LCS)

(LCS) R3681181-2 07/17/21 11:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.7	102	80.0-120	
Sulfate	40.0	40.9	102	80.0-120	

L1376804-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1376804-01 07/19/21 11:08 • (MS) R3681181-7 07/19/21 11:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	67.7	119	102	1	80.0-120	E

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3680673-2 07/13/21 21:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	88.0			77.0-126
(S) 1,2-Dichloroethane-d4	102			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3680673-1 07/13/21 20:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00472	94.4	70.0-123	
Ethylbenzene	0.00500	0.00414	82.8	79.0-123	
Naphthalene	0.00500	0.00352	70.4	54.0-135	
Toluene	0.00500	0.00442	88.4	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00406	81.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00409	81.8	76.0-122	
Xylenes, Total	0.0150	0.0127	84.7	79.0-123	
(S) Toluene-d8			98.4	80.0-120	
(S) 4-Bromofluorobenzene			91.1	77.0-126	
(S) 1,2-Dichloroethane-d4			105	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3679580-2 07/13/21 21:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	96.8			77.0-126
(S) 1,2-Dichloroethane-d4	126			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3679580-1 07/13/21 20:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00513	103	70.0-123	
Ethylbenzene	0.00500	0.00425	85.0	79.0-123	
Naphthalene	0.00500	0.00361	72.2	54.0-135	
Toluene	0.00500	0.00521	104	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00442	88.4	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00455	91.0	76.0-122	
Xylenes, Total	0.0150	0.0140	93.3	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			99.4	77.0-126	
(S) 1,2-Dichloroethane-d4			114	70.0-130	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3680253-3 07/15/21 10:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	94.8			80.0-120
(S) 4-Bromofluorobenzene	93.4			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3680253-1 07/15/21 09:11 • (LCSD) R3680253-2 07/15/21 09:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00514	0.00520	103	104	70.0-123			1.16	20
Ethylbenzene	0.00500	0.00504	0.00502	101	100	79.0-123			0.398	20
Naphthalene	0.00500	0.00334	0.00366	66.8	73.2	54.0-135			9.14	20
Toluene	0.00500	0.00492	0.00524	98.4	105	79.0-120			6.30	20
1,2,4-Trimethylbenzene	0.00500	0.00486	0.00512	97.2	102	76.0-121			5.21	20
1,3,5-Trimethylbenzene	0.00500	0.00501	0.00509	100	102	76.0-122			1.58	20
Xylenes, Total	0.0150	0.0148	0.0153	98.7	102	79.0-123			3.32	20
(S) Toluene-d8				92.3	93.2	80.0-120				
(S) 4-Bromofluorobenzene				94.6	97.3	77.0-126				
(S) 1,2-Dichloroethane-d4				102	103	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



# ACCREDITATIONS & LOCATIONS

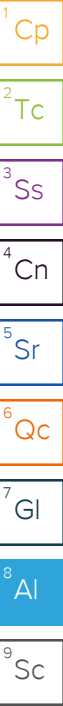
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group

330 Grand Ave, Unit C

Grand Junction, CO 81501

Billing Information:

Stuart Hall

330 Grand Ave, Unit C

Grand Junction, CO 81501

Report to:

Stuart Hall

Email To:

shall@entradainc.com;

Project Description:

Baker Canyon Spill

City/State Collected:

DeBeque, CO

Please Circle:

PT MT CT ET

Phone:

970-640-0568

Client Project #

Lab Project #

ENTCONGJCO-915

Collected by (print):

J McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day Five Day

Next Day 5 Day (Rad Only)

Two Day 10 Day (Rad Only)

Three Day

Quote #

Date Results Needed

No. of Cntrs

Immediately

Packed on Ice

N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	CHLORIDE, SULFATE 125mlHDPE-NoPres	TDS 250mlHDPE-NoPres	V8260 40mlAmb-HCI	Analysis / Container / Preservative
MW-1	Grab	GW		7/9/21	915	4	X	X	X
MW-2					945	1	X	X	X
MW-3					1015		X	X	X
MW-4					1045		X	X	X
MW-5					1115	✓	X	X	X
SW-1		SW			1130	✓	X	X	X

\* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Samples returned via:

UPS FedEx Courier

Tracking #

5016 1232 4613

Relinquished by: (Signature)

Date:

7/9/21

Time:

500

Received by: (Signature)

Trip Blank Received:

Yes No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

7/9/21

Time:

1400

Received by: (Signature)

Temp:

3.8-1=3.9

Bottles Received:

24

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

7/10/21

Time:

9:15

Received for lab by: (Signature)

Date:

7/10/21

Time:

9:15

Hold:

Condition:

NCF 100

Chain of Custody

Page 1 of 1

Pace Analytical

National Center for Testing & Innovation

12065 Lebanon Rd

Mount Juliet, TN 37122

Phone: 615-758-5858

Phone: 800-767-5859

Fax: 615-758-5859

SDG #

1376804

A173

Acctnum: ENTCONGJCO

Template: T180606

Prelogin: P822085

PM: 824 - Chris Ward

PB:

Shipped Via: FedEx Ground

Remarks


Sample # (lab only)

## Entrada Consulting Group

Sample Delivery Group: L1382643  
Samples Received: 07/24/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



## Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# SAMPLE SUMMARY

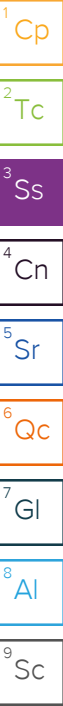
## MW-1 L1382643-01 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 09:00

Received date/time  
07/24/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1711588	1	07/25/21 18:51	07/25/21 19:41	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 05:42	07/29/21 05:42	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	5	07/29/21 14:00	07/29/21 14:00	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	1	07/27/21 03:14	07/27/21 03:14	DWR	Mt. Juliet, TN



## MW-2 L1382643-02 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 09:30

Received date/time  
07/24/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1711588	1	07/25/21 18:51	07/25/21 19:41	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 06:09	07/29/21 06:09	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	10	07/29/21 14:14	07/29/21 14:14	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	1	07/27/21 03:33	07/27/21 03:33	DWR	Mt. Juliet, TN

## MW-3 L1382643-03 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 10:00

Received date/time  
07/24/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1712244	1	07/27/21 10:52	07/27/21 11:46	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 06:35	07/29/21 06:35	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	10	07/29/21 14:27	07/29/21 14:27	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	1	07/27/21 03:52	07/27/21 03:52	DWR	Mt. Juliet, TN

## MW-4 L1382643-04 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 10:30

Received date/time  
07/24/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1712244	1	07/27/21 10:52	07/27/21 11:46	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 07:28	07/29/21 07:28	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	10	07/29/21 14:40	07/29/21 14:40	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	1	07/27/21 04:11	07/27/21 04:11	DWR	Mt. Juliet, TN

## MW-5 L1382643-05 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 11:00

Received date/time  
07/24/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1711868	1	07/26/21 17:26	07/26/21 18:54	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 07:54	07/29/21 07:54	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	10	07/29/21 14:53	07/29/21 14:53	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	10	07/27/21 04:49	07/27/21 04:49	DWR	Mt. Juliet, TN

## SW-1 L1382643-06 GW

Collected by  
J McLarty

Collected date/time  
07/23/21 11:15

Received date/time  
07/24/21 09:00

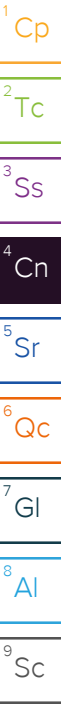
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1711588	1	07/25/21 18:51	07/25/21 19:41	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 08:21	07/29/21 08:21	MSP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1712048	1	07/29/21 15:33	07/29/21 15:33	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1712027	1	07/27/21 04:30	07/27/21 04:30	DWR	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	990		20.0	1	07/25/2021 19:41	<a href="#">WG1711588</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	69.0		0.379	1.00	1	07/29/2021 05:42	<a href="#">WG1712048</a>
Sulfate	303		2.97	25.0	5	07/29/2021 14:00	<a href="#">WG1712048</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000143	J	0.0000941	0.00100	1	07/27/2021 03:14	<a href="#">WG1712027</a>
Toluene	0.000730	J	0.000278	0.00100	1	07/27/2021 03:14	<a href="#">WG1712027</a>
Ethylbenzene	0.000396	J	0.000137	0.00100	1	07/27/2021 03:14	<a href="#">WG1712027</a>
Xylenes, Total	0.000308	J	0.000174	0.00300	1	07/27/2021 03:14	<a href="#">WG1712027</a>
Naphthalene	U		0.00100	0.00500	1	07/27/2021 03:14	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/27/2021 03:14	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/27/2021 03:14	<a href="#">WG1712027</a>
(S) Toluene-d8	97.7			80.0-120		07/27/2021 03:14	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/27/2021 03:14	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/27/2021 03:14	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1450		25.0	1	07/25/2021 19:41	<a href="#">WG1711588</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	82.5		0.379	1.00	1	07/29/2021 06:09	<a href="#">WG1712048</a>
Sulfate	663		5.94	50.0	10	07/29/2021 14:14	<a href="#">WG1712048</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00371		0.0000941	0.00100	1	07/27/2021 03:33	<a href="#">WG1712027</a>
Toluene	0.000442	J	0.000278	0.00100	1	07/27/2021 03:33	<a href="#">WG1712027</a>
Ethylbenzene	0.000632	J	0.000137	0.00100	1	07/27/2021 03:33	<a href="#">WG1712027</a>
Xylenes, Total	0.00408		0.000174	0.00300	1	07/27/2021 03:33	<a href="#">WG1712027</a>
Naphthalene	U		0.00100	0.00500	1	07/27/2021 03:33	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/27/2021 03:33	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	0.000312	J	0.000104	0.00100	1	07/27/2021 03:33	<a href="#">WG1712027</a>
(S) Toluene-d8	96.6			80.0-120		07/27/2021 03:33	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/27/2021 03:33	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/27/2021 03:33	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1300		25.0	1	07/27/2021 11:46	<a href="#">WG1712244</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	71.9		0.379	1.00	1	07/29/2021 06:35	<a href="#">WG1712048</a>
Sulfate	502		5.94	50.0	10	07/29/2021 14:27	<a href="#">WG1712048</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.0242		0.0000941	0.00100	1	07/27/2021 03:52	<a href="#">WG1712027</a>
Toluene	0.0226		0.000278	0.00100	1	07/27/2021 03:52	<a href="#">WG1712027</a>
Ethylbenzene	0.00232		0.000137	0.00100	1	07/27/2021 03:52	<a href="#">WG1712027</a>
Xylenes, Total	0.0394		0.000174	0.00300	1	07/27/2021 03:52	<a href="#">WG1712027</a>
Naphthalene	U		0.00100	0.00500	1	07/27/2021 03:52	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	0.00110		0.000322	0.00100	1	07/27/2021 03:52	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	0.00124		0.000104	0.00100	1	07/27/2021 03:52	<a href="#">WG1712027</a>
(S) Toluene-d8	96.6			80.0-120		07/27/2021 03:52	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/27/2021 03:52	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/27/2021 03:52	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1560		50.0	1	07/27/2021 11:46	<a href="#">WG1712244</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	95.4		0.379	1.00	1	07/29/2021 07:28	<a href="#">WG1712048</a>
Sulfate	792		5.94	50.0	10	07/29/2021 14:40	<a href="#">WG1712048</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0145		0.0000941	0.00100	1	07/27/2021 04:11	<a href="#">WG1712027</a>
Toluene	0.0393		0.000278	0.00100	1	07/27/2021 04:11	<a href="#">WG1712027</a>
Ethylbenzene	0.00113		0.000137	0.00100	1	07/27/2021 04:11	<a href="#">WG1712027</a>
Xylenes, Total	0.0168		0.000174	0.00300	1	07/27/2021 04:11	<a href="#">WG1712027</a>
Naphthalene	U		0.00100	0.00500	1	07/27/2021 04:11	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	0.000437	J	0.000322	0.00100	1	07/27/2021 04:11	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	0.000452	J	0.000104	0.00100	1	07/27/2021 04:11	<a href="#">WG1712027</a>
(S) Toluene-d8	99.4			80.0-120		07/27/2021 04:11	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	103			77.0-126		07/27/2021 04:11	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/27/2021 04:11	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1340		25.0	1	07/26/2021 18:54	<a href="#">WG1711868</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	74.2		0.379	1.00	1	07/29/2021 07:54	<a href="#">WG1712048</a>
Sulfate	524		5.94	50.0	10	07/29/2021 14:53	<a href="#">WG1712048</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.333		0.000941	0.0100	10	07/27/2021 04:49	<a href="#">WG1712027</a>
Toluene	0.217		0.00278	0.0100	10	07/27/2021 04:49	<a href="#">WG1712027</a>
Ethylbenzene	0.00843	J	0.00137	0.0100	10	07/27/2021 04:49	<a href="#">WG1712027</a>
Xylenes, Total	0.127		0.00174	0.0300	10	07/27/2021 04:49	<a href="#">WG1712027</a>
Naphthalene	U		0.0100	0.0500	10	07/27/2021 04:49	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	0.00337	J	0.00322	0.0100	10	07/27/2021 04:49	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	0.00325	J	0.00104	0.0100	10	07/27/2021 04:49	<a href="#">WG1712027</a>
(S) Toluene-d8	98.6			80.0-120		07/27/2021 04:49	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	102			77.0-126		07/27/2021 04:49	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/27/2021 04:49	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1270		25.0	1	07/25/2021 19:41	<a href="#">WG1711588</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	29.7		0.379	1.00	1	07/29/2021 08:21	<a href="#">WG1712048</a>
Sulfate	24.7		0.594	5.00	1	07/29/2021 15:33	<a href="#">WG1712048</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/27/2021 04:30	<a href="#">WG1712027</a>
Toluene	U		0.000278	0.00100	1	07/27/2021 04:30	<a href="#">WG1712027</a>
Ethylbenzene	U		0.000137	0.00100	1	07/27/2021 04:30	<a href="#">WG1712027</a>
Xylenes, Total	U		0.000174	0.00300	1	07/27/2021 04:30	<a href="#">WG1712027</a>
Naphthalene	U		0.00100	0.00500	1	07/27/2021 04:30	<a href="#">WG1712027</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	07/27/2021 04:30	<a href="#">WG1712027</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	07/27/2021 04:30	<a href="#">WG1712027</a>
(S) Toluene-d8	94.7			80.0-120		07/27/2021 04:30	<a href="#">WG1712027</a>
(S) 4-Bromofluorobenzene	101			77.0-126		07/27/2021 04:30	<a href="#">WG1712027</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/27/2021 04:30	<a href="#">WG1712027</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3684493-1 07/25/21 19:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1381929-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1381929-01 07/25/21 19:41 • (DUP) R3684493-3 07/25/21 19:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1730	1740	1	0.289		5

L1381997-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1381997-01 07/25/21 19:41 • (DUP) R3684493-4 07/25/21 19:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	453	473	1	4.32		5

Laboratory Control Sample (LCS)

(LCS) R3684493-2 07/25/21 19:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8990	102	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3684499-1 07/26/21 18:54

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1382406-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1382406-01 07/26/21 18:54 • (DUP) R3684499-3 07/26/21 18:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1080	1060	1	2.11		5

L1382442-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1382442-02 07/26/21 18:54 • (DUP) R3684499-4 07/26/21 18:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1420	1640	1	13.9	J3	5

Laboratory Control Sample (LCS)

(LCS) R3684499-2 07/26/21 18:54

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8140	92.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3684980-1 07/27/21 11:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1382472-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1382472-05 07/27/21 11:46 • (DUP) R3684980-3 07/27/21 11:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	68.0	76.0	1	11.1	J3	5

L1382472-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1382472-07 07/27/21 11:46 • (DUP) R3684980-4 07/27/21 11:46

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	146	147	1	0.683		5

Laboratory Control Sample (LCS)

(LCS) R3684980-2 07/27/21 11:46

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8420	95.7	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3686080-1 07/28/21 14:55

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1381859-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1381859-05 07/29/21 04:36 • (DUP) R3686080-7 07/29/21 04:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	41.4	41.2	1	0.472		15

L1381859-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1381859-05 07/29/21 12:54 • (DUP) R3686080-10 07/29/21 13:07

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	68.5	68.4	1	0.185		15

L1381858-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1381858-01 07/29/21 15:46 • (DUP) R3686080-13 07/29/21 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	6.15	6.13	1	0.297		15
Sulfate	59.3	58.6	1	1.21		15

Laboratory Control Sample (LCS)

(LCS) R3686080-2 07/28/21 15:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	38.7	96.8	80.0-120	
Sulfate	40.0	38.7	96.7	80.0-120	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L1381858-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381858-06 07/29/21 01:57 • (MS) R3686080-3 07/29/21 02:11 • (MSD) R3686080-4 07/29/21 02:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	30.0	79.0	78.8	98.1	97.8	1	80.0-120			0.209	15
Sulfate	50.0	26.0	75.9	75.9	99.7	99.7	1	80.0-120			0.0428	15

L1381859-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381859-01 07/29/21 02:50 • (MS) R3686080-5 07/29/21 03:04 • (MSD) R3686080-6 07/29/21 03:17

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	91.9	143	139	103	94.6	1	80.0-120	E	E	2.81	15
Sulfate	50.0	158	211	203	107	90.8	1	80.0-120	E	E	3.85	15

L1381859-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381859-05 07/29/21 04:36 • (MS) R3686080-8 07/29/21 05:03 • (MSD) R3686080-9 07/29/21 05:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	41.4	90.2	90.4	97.5	97.9	1	80.0-120			0.195	15

L1381859-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381859-05 07/29/21 12:54 • (MS) R3686080-11 07/29/21 13:21 • (MSD) R3686080-12 07/29/21 13:34

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	68.5	117	117	96.8	96.3	1	80.0-120	E	E	0.190	15

L1381858-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1381858-01 07/29/21 15:46 • (MS) R3686080-14 07/29/21 16:13 • (MSD) R3686080-15 07/29/21 16:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	6.15	56.2	56.5	100	101	1	80.0-120			0.418	15
Sulfate	50.0	59.3	107	108	96.1	97.7	1	80.0-120	E	E	0.715	15



Method Blank (MB)

(MB) R3686403-3 07/26/21 21:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	96.7			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	98.9			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3686403-1 07/26/21 20:33 • (LCSD) R3686403-2 07/26/21 20:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00474	0.00460	94.8	92.0	70.0-123			3.00	20
Ethylbenzene	0.00500	0.00455	0.00429	91.0	85.8	79.0-123			5.88	20
Naphthalene	0.00500	0.00270	0.00298	54.0	59.6	54.0-135			9.86	20
Toluene	0.00500	0.00462	0.00452	92.4	90.4	79.0-120			2.19	20
1,2,4-Trimethylbenzene	0.00500	0.00482	0.00475	96.4	95.0	76.0-121			1.46	20
1,3,5-Trimethylbenzene	0.00500	0.00504	0.00485	101	97.0	76.0-122			3.84	20
Xylenes, Total	0.0150	0.0137	0.0132	91.3	88.0	79.0-123			3.72	20
(S) Toluene-d8				98.7	98.8	80.0-120				
(S) 4-Bromofluorobenzene				104	104	77.0-126				
(S) 1,2-Dichloroethane-d4				109	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

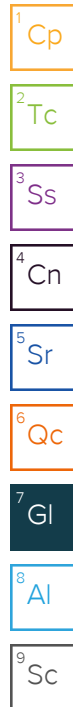
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Entrada Consulting Group					
330 Grand Ave, Unit C Grand Junction, CO 81501					
Report to: <b>Stuart Hall</b>					
Project Description: Baker Canyon Spill City/State Collected: DeBeque, CO Please Circle: PT MT CT ET					
Phone: 970-640-0568 Client Project # Lab Project # ENTCONJCO-915					
Collected by (print): J McLarty Site/Facility ID # P.O. #					
Collected by (signature): [Signature] Rush? (Lab MUST Be Notified) Same Day Five Day Next Day 5 Day (Rad Only) Two Day 10 Day (Rad Only) Three Day Date Results Needed No. of Cntrs					
Immediately Packed on Ice N Y					
Sample ID Comp/Grab Matrix * Depth Date Time					
MW-1	Grab	GW		7/23/21	900
MW-2					930
MW-3					1000
MW-4					1030
MW-5					1100
SW-1		SW			1115
* Matrix:	Remarks:				
SS - Soil AIR - Air F - Filter	pH Temp				
GW - Groundwater B - Bioassay	Flow Other				
WW - WasteWater	Samples returned via: Tracking # 5016 1232 4451				
DW - Drinking Water	Relinquished by: (Signature) Date: 7/23/21 Time: 1500 Received by: (Signature)				
OT - Other	Trip Blank Received: Yes / No HCL / MeOH TBR				
Temp: 22.1 °C Bottles Received: 24 If preservation required by Login: Date/Time					
RAD Screen <0.5 mR/hr:					
Hold: Condition: NCF 10K					



**Entrada Consulting Group**

Sample Delivery Group: L1388077  
Samples Received: 08/07/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Matt Kasten  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## MW1 L1388077-01 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 09:30

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	1	08/11/21 20:10	08/11/21 20:10	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	10	08/12/21 12:24	08/12/21 12:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	1	08/11/21 10:54	08/11/21 10:54	ACG	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## MW2 L1388077-02 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 10:05

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	1	08/11/21 20:25	08/11/21 20:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	10	08/12/21 12:39	08/12/21 12:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	1	08/11/21 11:14	08/11/21 11:14	ACG	Mt. Juliet, TN

## MW3 L1388077-03 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 10:20

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	1	08/11/21 20:40	08/11/21 20:40	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	10	08/12/21 12:54	08/12/21 12:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	1	08/11/21 11:35	08/11/21 11:35	ACG	Mt. Juliet, TN

## MW4 L1388077-04 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 10:50

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	20	08/12/21 13:09	08/12/21 13:09	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	5	08/11/21 21:40	08/11/21 21:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	1	08/11/21 11:55	08/11/21 11:55	ACG	Mt. Juliet, TN

## MW5 L1388077-05 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 11:10

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	1	08/11/21 21:54	08/11/21 21:54	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	10	08/12/21 13:24	08/12/21 13:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	10	08/11/21 15:24	08/11/21 15:24	ACG	Mt. Juliet, TN

## SW1 L1388077-06 GW

Collected by  
R. Johnson

Collected date/time  
08/06/21 11:30

Received date/time  
08/07/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1721174	1	08/11/21 10:19	08/11/21 11:37	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	1	08/11/21 22:39	08/11/21 22:39	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1721197	10	08/12/21 13:54	08/12/21 13:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1721083	1	08/11/21 12:16	08/11/21 12:16	ACG	Mt. Juliet, TN



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1120		20.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	65.9		0.379	1.00	1	08/11/2021 20:10	<a href="#">WG1721197</a>
Sulfate	348		5.94	50.0	10	08/12/2021 12:24	<a href="#">WG1721197</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	08/11/2021 10:54	<a href="#">WG1721083</a>
Toluene	0.000557	J	0.000278	0.00100	1	08/11/2021 10:54	<a href="#">WG1721083</a>
Ethylbenzene	0.000173	J	0.000137	0.00100	1	08/11/2021 10:54	<a href="#">WG1721083</a>
Xylenes, Total	U		0.000174	0.00300	1	08/11/2021 10:54	<a href="#">WG1721083</a>
Naphthalene	U		0.00100	0.00500	1	08/11/2021 10:54	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	0.000370	J	0.000322	0.00100	1	08/11/2021 10:54	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	08/11/2021 10:54	<a href="#">WG1721083</a>
(S) Toluene-d8	108			80.0-120		08/11/2021 10:54	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		08/11/2021 10:54	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		08/11/2021 10:54	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1810		25.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	81.9		0.379	1.00	1	08/11/2021 20:25	<a href="#">WG1721197</a>
Sulfate	802		5.94	50.0	10	08/12/2021 12:39	<a href="#">WG1721197</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.0344		0.0000941	0.00100	1	08/11/2021 11:14	<a href="#">WG1721083</a>
Toluene	0.0114		0.000278	0.00100	1	08/11/2021 11:14	<a href="#">WG1721083</a>
Ethylbenzene	0.00561		0.000137	0.00100	1	08/11/2021 11:14	<a href="#">WG1721083</a>
Xylenes, Total	0.0832		0.000174	0.00300	1	08/11/2021 11:14	<a href="#">WG1721083</a>
Naphthalene	U		0.00100	0.00500	1	08/11/2021 11:14	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	0.00245		0.000322	0.00100	1	08/11/2021 11:14	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	0.00236		0.000104	0.00100	1	08/11/2021 11:14	<a href="#">WG1721083</a>
(S) Toluene-d8	106			80.0-120		08/11/2021 11:14	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	99.7			77.0-126		08/11/2021 11:14	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		08/11/2021 11:14	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1440		25.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	75.7		0.379	1.00	1	08/11/2021 20:40	<a href="#">WG1721197</a>
Sulfate	576		5.94	50.0	10	08/12/2021 12:54	<a href="#">WG1721197</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	0.0323		0.0000941	0.00100	1	08/11/2021 11:35	<a href="#">WG1721083</a>
Toluene	0.0807		0.000278	0.00100	1	08/11/2021 11:35	<a href="#">WG1721083</a>
Ethylbenzene	0.00321		0.000137	0.00100	1	08/11/2021 11:35	<a href="#">WG1721083</a>
Xylenes, Total	0.0641		0.000174	0.00300	1	08/11/2021 11:35	<a href="#">WG1721083</a>
Naphthalene	U		0.00100	0.00500	1	08/11/2021 11:35	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	0.00174		0.000322	0.00100	1	08/11/2021 11:35	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	0.00179		0.000104	0.00100	1	08/11/2021 11:35	<a href="#">WG1721083</a>
(S) Toluene-d8	108			80.0-120		08/11/2021 11:35	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/11/2021 11:35	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		08/11/2021 11:35	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2220		50.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	111		1.90	5.00	5	08/11/2021 21:40	<a href="#">WG1721197</a>
Sulfate	1140		11.9	100	20	08/12/2021 13:09	<a href="#">WG1721197</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000143	J	0.0000941	0.00100	1	08/11/2021 11:55	<a href="#">WG1721083</a>
Toluene	0.000496	J	0.000278	0.00100	1	08/11/2021 11:55	<a href="#">WG1721083</a>
Ethylbenzene	U		0.000137	0.00100	1	08/11/2021 11:55	<a href="#">WG1721083</a>
Xylenes, Total	0.00107	J	0.000174	0.00300	1	08/11/2021 11:55	<a href="#">WG1721083</a>
Naphthalene	U		0.00100	0.00500	1	08/11/2021 11:55	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/11/2021 11:55	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	08/11/2021 11:55	<a href="#">WG1721083</a>
(S) Toluene-d8	106			80.0-120		08/11/2021 11:55	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	98.9			77.0-126		08/11/2021 11:55	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/11/2021 11:55	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1470		20.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	77.1		0.379	1.00	1	08/11/2021 21:54	<a href="#">WG1721197</a>
Sulfate	596		5.94	50.0	10	08/12/2021 13:24	<a href="#">WG1721197</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.425		0.000941	0.0100	10	08/11/2021 15:24	<a href="#">WG1721083</a>
Toluene	0.250		0.00278	0.0100	10	08/11/2021 15:24	<a href="#">WG1721083</a>
Ethylbenzene	0.00903	J	0.00137	0.0100	10	08/11/2021 15:24	<a href="#">WG1721083</a>
Xylenes, Total	0.150		0.00174	0.0300	10	08/11/2021 15:24	<a href="#">WG1721083</a>
Naphthalene	U		0.0100	0.0500	10	08/11/2021 15:24	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	0.00632	J	0.00322	0.0100	10	08/11/2021 15:24	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	0.00324	J	0.00104	0.0100	10	08/11/2021 15:24	<a href="#">WG1721083</a>
(S) Toluene-d8	108			80.0-120		08/11/2021 15:24	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	108			77.0-126		08/11/2021 15:24	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/11/2021 15:24	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1400		20.0	1	08/11/2021 11:37	<a href="#">WG1721174</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	86.7		0.379	1.00	1	08/11/2021 22:39	<a href="#">WG1721197</a>
Sulfate	508		5.94	50.0	10	08/12/2021 13:54	<a href="#">WG1721197</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	08/11/2021 12:16	<a href="#">WG1721083</a>
Toluene	U		0.000278	0.00100	1	08/11/2021 12:16	<a href="#">WG1721083</a>
Ethylbenzene	U		0.000137	0.00100	1	08/11/2021 12:16	<a href="#">WG1721083</a>
Xylenes, Total	U		0.000174	0.00300	1	08/11/2021 12:16	<a href="#">WG1721083</a>
Naphthalene	U		0.00100	0.00500	1	08/11/2021 12:16	<a href="#">WG1721083</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/11/2021 12:16	<a href="#">WG1721083</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	08/11/2021 12:16	<a href="#">WG1721083</a>
(S) Toluene-d8	105			80.0-120		08/11/2021 12:16	<a href="#">WG1721083</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		08/11/2021 12:16	<a href="#">WG1721083</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		08/11/2021 12:16	<a href="#">WG1721083</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3691410-1 08/11/21 11:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1387784-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1387784-04 08/11/21 11:37 • (DUP) R3691410-3 08/11/21 11:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1330	1380	1	3.51		5

L1388326-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1388326-01 08/11/21 11:37 • (DUP) R3691410-4 08/11/21 11:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1330	1330	1	0.301		5

Laboratory Control Sample (LCS)

(LCS) R3691410-2 08/11/21 11:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8450	96.0	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3691265-1 08/11/21 12:06

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	0.601	⌵	0.594	5.00

L1387709-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1387709-10 08/11/21 18:25 • (DUP) R3691265-5 08/11/21 18:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	50.3	50.5	1	0.307		15
Sulfate	4.37	4.38	1	0.265	⌵	15

L1388077-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1388077-05 08/11/21 21:54 • (DUP) R3691265-6 08/11/21 22:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	77.1	77.1	1	0.0208		15

L1388077-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1388077-05 08/12/21 13:24 • (DUP) R3691265-8 08/12/21 13:39

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	596	595	10	0.114		15

Laboratory Control Sample (LCS)

(LCS) R3691265-2 08/11/21 12:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.8	99.6	80.0-120	
Sulfate	40.0	38.6	96.6	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1387709-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387709-01 08/11/21 15:56 • (MS) R3691265-3 08/11/21 16:11 • (MSD) R3691265-4 08/11/21 16:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	90.4	136	136	90.7	92.1	1	80.0-120	E	E	0.515	15
Sulfate	50.0	U	46.0	46.6	92.0	93.2	1	80.0-120			1.35	15

L1388077-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1388077-05 08/11/21 21:54 • (MS) R3691265-7 08/11/21 22:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	77.1	125	96.0	1	80.0-120	E
Sulfate	50.0	618	672	107	1	80.0-120	E

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3692386-2 08/11/21 08:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	109			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3692386-1 08/11/21 08:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00515	103	70.0-123	
Ethylbenzene	0.00500	0.00485	97.0	79.0-123	
Naphthalene	0.00500	0.00407	81.4	54.0-135	
Toluene	0.00500	0.00521	104	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00450	90.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00500	100	76.0-122	
Xylenes, Total	0.0150	0.0137	91.3	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			103	77.0-126	
(S) 1,2-Dichloroethane-d4			105	70.0-130	

1  
Cp

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# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

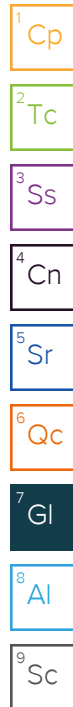
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]



**Entrada Consulting Group**

Sample Delivery Group: L1393790  
Samples Received: 08/21/2021  
Project Number:  
Description: Baker Canyon Spill

Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## MW-1 L1393790-01 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 09:00

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	5	08/28/21 20:30	08/28/21 20:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731113	1	08/30/21 06:43	08/30/21 06:43	JAH	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## MW-2 L1393790-02 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 10:30

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	10	08/28/21 20:46	08/28/21 20:46	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731115	1	08/28/21 16:36	08/28/21 16:36	DWR	Mt. Juliet, TN

## MW-3 L1393790-03 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 09:30

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	1	08/28/21 21:03	08/28/21 21:03	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	10	08/29/21 01:47	08/29/21 01:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731115	1	08/28/21 16:56	08/28/21 16:56	DWR	Mt. Juliet, TN

## MW-4 L1393790-04 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 10:00

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	20	08/28/21 21:19	08/28/21 21:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731115	1	08/28/21 17:17	08/28/21 17:17	DWR	Mt. Juliet, TN

## MW-5 L1393790-05 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 11:00

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	1	08/28/21 22:25	08/28/21 22:25	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	10	08/29/21 02:03	08/29/21 02:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731115	10	08/28/21 20:24	08/28/21 20:24	DWR	Mt. Juliet, TN

## SW-1 L1393790-06 GW

Collected by  
J McLarty

Collected date/time  
08/20/21 11:30

Received date/time  
08/21/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729655	1	08/25/21 20:52	08/25/21 21:53	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	1	08/28/21 21:35	08/28/21 21:35	ELN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1731201	10	08/29/21 02:36	08/29/21 02:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1731115	1	08/28/21 17:38	08/28/21 17:38	DWR	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

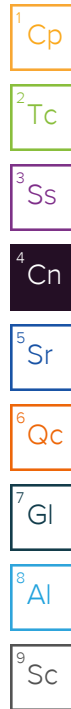


Chris Ward  
Project Manager

## Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1393790-01</a>	<a href="#">MW-1</a>	8260B
<a href="#">L1393790-02</a>	<a href="#">MW-2</a>	8260B
<a href="#">L1393790-04</a>	<a href="#">MW-4</a>	8260B



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1100		20.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	65.1		1.90	5.00	5	08/28/2021 20:30	<a href="#">WG1731201</a>
Sulfate	349		2.97	25.0	5	08/28/2021 20:30	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	08/30/2021 06:43	<a href="#">WG1731113</a>
Toluene	0.000410	J	0.000278	0.00100	1	08/30/2021 06:43	<a href="#">WG1731113</a>
Ethylbenzene	0.000345	J	0.000137	0.00100	1	08/30/2021 06:43	<a href="#">WG1731113</a>
Xylenes, Total	0.000250	J	0.000174	0.00300	1	08/30/2021 06:43	<a href="#">WG1731113</a>
Naphthalene	U		0.00100	0.00500	1	08/30/2021 06:43	<a href="#">WG1731113</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/30/2021 06:43	<a href="#">WG1731113</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	08/30/2021 06:43	<a href="#">WG1731113</a>
(S) Toluene-d8	101			80.0-120		08/30/2021 06:43	<a href="#">WG1731113</a>
(S) 4-Bromofluorobenzene	102			77.0-126		08/30/2021 06:43	<a href="#">WG1731113</a>
(S) 1,2-Dichloroethane-d4	88.4			70.0-130		08/30/2021 06:43	<a href="#">WG1731113</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1880		25.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	85.3		3.79	10.0	10	08/28/2021 20:46	<a href="#">WG1731201</a>
Sulfate	866		5.94	50.0	10	08/28/2021 20:46	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00558		0.0000941	0.00100	1	08/28/2021 16:36	<a href="#">WG1731115</a>
Toluene	0.000538	J	0.000278	0.00100	1	08/28/2021 16:36	<a href="#">WG1731115</a>
Ethylbenzene	0.00103		0.000137	0.00100	1	08/28/2021 16:36	<a href="#">WG1731115</a>
Xylenes, Total	0.00559		0.000174	0.00300	1	08/28/2021 16:36	<a href="#">WG1731115</a>
Naphthalene	U		0.00100	0.00500	1	08/28/2021 16:36	<a href="#">WG1731115</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/28/2021 16:36	<a href="#">WG1731115</a>
1,3,5-Trimethylbenzene	0.000432	J	0.000104	0.00100	1	08/28/2021 16:36	<a href="#">WG1731115</a>
(S) Toluene-d8	91.6			80.0-120		08/28/2021 16:36	<a href="#">WG1731115</a>
(S) 4-Bromofluorobenzene	94.8			77.0-126		08/28/2021 16:36	<a href="#">WG1731115</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/28/2021 16:36	<a href="#">WG1731115</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1450		25.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	75.4		0.379	1.00	1	08/28/2021 21:03	<a href="#">WG1731201</a>
Sulfate	560		5.94	50.0	10	08/29/2021 01:47	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0116		0.0000941	0.00100	1	08/28/2021 16:56	<a href="#">WG1731115</a>
Toluene	0.00730		0.000278	0.00100	1	08/28/2021 16:56	<a href="#">WG1731115</a>
Ethylbenzene	0.00139		0.000137	0.00100	1	08/28/2021 16:56	<a href="#">WG1731115</a>
Xylenes, Total	0.0185		0.000174	0.00300	1	08/28/2021 16:56	<a href="#">WG1731115</a>
Naphthalene	U		0.00100	0.00500	1	08/28/2021 16:56	<a href="#">WG1731115</a>
1,2,4-Trimethylbenzene	0.000829	J	0.000322	0.00100	1	08/28/2021 16:56	<a href="#">WG1731115</a>
1,3,5-Trimethylbenzene	0.000869	J	0.000104	0.00100	1	08/28/2021 16:56	<a href="#">WG1731115</a>
(S) Toluene-d8	91.9			80.0-120		08/28/2021 16:56	<a href="#">WG1731115</a>
(S) 4-Bromofluorobenzene	97.4			77.0-126		08/28/2021 16:56	<a href="#">WG1731115</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		08/28/2021 16:56	<a href="#">WG1731115</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2130		50.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	97.5		7.58	20.0	20	08/28/2021 21:19	<a href="#">WG1731201</a>
Sulfate	924		11.9	100	20	08/28/2021 21:19	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00209		0.0000941	0.00100	1	08/28/2021 17:17	<a href="#">WG1731115</a>
Toluene	0.00280		0.000278	0.00100	1	08/28/2021 17:17	<a href="#">WG1731115</a>
Ethylbenzene	0.000378	J	0.000137	0.00100	1	08/28/2021 17:17	<a href="#">WG1731115</a>
Xylenes, Total	0.00178	J	0.000174	0.00300	1	08/28/2021 17:17	<a href="#">WG1731115</a>
Naphthalene	U		0.00100	0.00500	1	08/28/2021 17:17	<a href="#">WG1731115</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/28/2021 17:17	<a href="#">WG1731115</a>
1,3,5-Trimethylbenzene	0.000129	J	0.000104	0.00100	1	08/28/2021 17:17	<a href="#">WG1731115</a>
(S) Toluene-d8	90.3			80.0-120		08/28/2021 17:17	<a href="#">WG1731115</a>
(S) 4-Bromofluorobenzene	96.9			77.0-126		08/28/2021 17:17	<a href="#">WG1731115</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/28/2021 17:17	<a href="#">WG1731115</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1510		25.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	76.3		0.379	1.00	1	08/28/2021 22:25	<a href="#">WG1731201</a>
Sulfate	608		5.94	50.0	10	08/29/2021 02:03	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.445		0.000941	0.0100	10	08/28/2021 20:24	<a href="#">WG1731115</a>
Toluene	0.140		0.00278	0.0100	10	08/28/2021 20:24	<a href="#">WG1731115</a>
Ethylbenzene	0.00950	J	0.00137	0.0100	10	08/28/2021 20:24	<a href="#">WG1731115</a>
Xylenes, Total	0.136		0.00174	0.0300	10	08/28/2021 20:24	<a href="#">WG1731115</a>
Naphthalene	U		0.0100	0.0500	10	08/28/2021 20:24	<a href="#">WG1731115</a>
1,2,4-Trimethylbenzene	0.00709	J	0.00322	0.0100	10	08/28/2021 20:24	<a href="#">WG1731115</a>
1,3,5-Trimethylbenzene	0.00396	J	0.00104	0.0100	10	08/28/2021 20:24	<a href="#">WG1731115</a>
(S) Toluene-d8	91.1			80.0-120		08/28/2021 20:24	<a href="#">WG1731115</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		08/28/2021 20:24	<a href="#">WG1731115</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/28/2021 20:24	<a href="#">WG1731115</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1400		25.0	1	08/25/2021 21:53	<a href="#">WG1729655</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	89.6		0.379	1.00	1	08/28/2021 21:35	<a href="#">WG1731201</a>
Sulfate	525		5.94	50.0	10	08/29/2021 02:36	<a href="#">WG1731201</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	08/28/2021 17:38	<a href="#">WG1731115</a>
Toluene	U		0.000278	0.00100	1	08/28/2021 17:38	<a href="#">WG1731115</a>
Ethylbenzene	U		0.000137	0.00100	1	08/28/2021 17:38	<a href="#">WG1731115</a>
Xylenes, Total	U		0.000174	0.00300	1	08/28/2021 17:38	<a href="#">WG1731115</a>
Naphthalene	U		0.00100	0.00500	1	08/28/2021 17:38	<a href="#">WG1731115</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	08/28/2021 17:38	<a href="#">WG1731115</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	08/28/2021 17:38	<a href="#">WG1731115</a>
(S) Toluene-d8	90.9			80.0-120		08/28/2021 17:38	<a href="#">WG1731115</a>
(S) 4-Bromofluorobenzene	98.0			77.0-126		08/28/2021 17:38	<a href="#">WG1731115</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		08/28/2021 17:38	<a href="#">WG1731115</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3697382-1 08/25/21 21:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1393790-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1393790-05 08/25/21 21:53 • (DUP) R3697382-3 08/25/21 21:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1510	1510	1	0.497		5

L1393790-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1393790-06 08/25/21 21:53 • (DUP) R3697382-4 08/25/21 21:53

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1400	1420	1	1.95		5

Laboratory Control Sample (LCS)

(LCS) R3697382-2 08/25/21 21:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8490	96.5	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3698022-1 08/28/21 11:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1396347-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1396347-06 08/28/21 16:53 • (DUP) R3698022-3 08/28/21 17:10

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	59.4	59.4	1	0.0133		15
Sulfate	375	375	1	0.105	E	15

L1393790-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1393790-05 08/28/21 22:25 • (DUP) R3698022-6 08/28/21 22:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	76.3	76.2	1	0.0752		15

L1393790-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1393790-05 08/29/21 02:03 • (DUP) R3698022-8 08/29/21 02:20

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	608	614	10	1.01		15

Laboratory Control Sample (LCS)

(LCS) R3698022-2 08/28/21 11:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.8	99.4	80.0-120	
Sulfate	40.0	40.4	101	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1396347-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1396347-06 08/28/21 16:53 • (MS) R3698022-4 08/28/21 17:26 • (MSD) R3698022-5 08/28/21 17:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	59.4	107	107	94.6	94.9	1	80.0-120	E	E	0.172	15
Sulfate	50.0	375	412	418	74.1	85.1	1	80.0-120	EV	E	1.33	15

L1393790-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1393790-05 08/28/21 22:25 • (MS) R3698022-7 08/28/21 22:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	76.3	124	96.4	1	80.0-120	E
Sulfate	50.0	603	650	93.8	1	80.0-120	E

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3698111-2 08/30/21 01:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	99.4			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	92.2			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3698111-1 08/30/21 00:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00472	94.4	70.0-123	
Ethylbenzene	0.00500	0.00419	83.8	79.0-123	
Naphthalene	0.00500	0.00413	82.6	54.0-135	
Toluene	0.00500	0.00426	85.2	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00406	81.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00404	80.8	76.0-122	
Xylenes, Total	0.0150	0.0125	83.3	79.0-123	
(S) Toluene-d8			99.4	80.0-120	
(S) 4-Bromofluorobenzene			97.2	77.0-126	
(S) 1,2-Dichloroethane-d4			89.9	70.0-130	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3697907-3 08/28/21 14:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	93.4			80.0-120
(S) 4-Bromofluorobenzene	96.3			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3697907-1 08/28/21 13:17 • (LCSD) R3697907-2 08/28/21 13:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00508	0.00571	102	114	70.0-123			11.7	20
Ethylbenzene	0.00500	0.00507	0.00536	101	107	79.0-123			5.56	20
Naphthalene	0.00500	0.00618	0.00657	124	131	54.0-135			6.12	20
Toluene	0.00500	0.00445	0.00477	89.0	95.4	79.0-120			6.94	20
1,2,4-Trimethylbenzene	0.00500	0.00537	0.00571	107	114	76.0-121			6.14	20
1,3,5-Trimethylbenzene	0.00500	0.00559	0.00591	112	118	76.0-122			5.57	20
Xylenes, Total	0.0150	0.0145	0.0153	96.7	102	79.0-123			5.37	20
(S) Toluene-d8				93.3	92.8	80.0-120				
(S) 4-Bromofluorobenzene				97.6	97.1	77.0-126				
(S) 1,2-Dichloroethane-d4				109	110	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

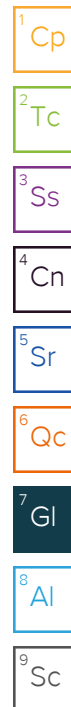
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]



## Entrada Consulting Group

Sample Delivery Group: L1400539  
Samples Received: 09/08/2021  
Project Number:  
Description: Baker Canyon Spill  
  
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:

*Chris Ward*

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

## MW-1 L1400539-01 GW

Collected by J McLarty  
Collected date/time 09/07/21 10:00  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	5	09/13/21 00:09	09/13/21 00:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	1	09/11/21 19:59	09/11/21 19:59	JAH	Mt. Juliet, TN

## MW-2 L1400539-02 GW

Collected by J McLarty  
Collected date/time 09/07/21 10:30  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	10	09/13/21 00:32	09/13/21 00:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	1	09/11/21 20:17	09/11/21 20:17	JAH	Mt. Juliet, TN

## MW-3 L1400539-03 GW

Collected by J McLarty  
Collected date/time 09/07/21 11:00  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	10	09/13/21 00:43	09/13/21 00:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	1	09/11/21 20:36	09/11/21 20:36	JAH	Mt. Juliet, TN

## MW-4 L1400539-04 GW

Collected by J McLarty  
Collected date/time 09/07/21 11:30  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	20	09/13/21 00:55	09/13/21 00:55	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	1	09/11/21 20:55	09/11/21 20:55	JAH	Mt. Juliet, TN

## MW-5 L1400539-05 GW

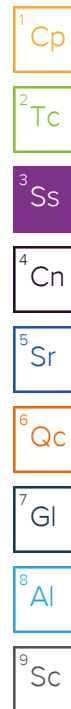
Collected by J McLarty  
Collected date/time 09/07/21 12:00  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	10	09/13/21 01:06	09/13/21 01:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	10	09/11/21 23:43	09/11/21 23:43	JAH	Mt. Juliet, TN

## MW-6 L1400539-06 GW

Collected by J McLarty  
Collected date/time 09/07/21 12:30  
Received date/time 09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1738384	1	09/10/21 15:52	09/10/21 20:19	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	20	09/13/21 01:18	09/13/21 01:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738739	1	09/11/21 21:13	09/11/21 21:13	JAH	Mt. Juliet, TN



# SAMPLE SUMMARY

## MW-7 L1400539-07 GW

Collected by  
J McLarty

Collected date/time  
09/07/21 13:00

Received date/time  
09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1739279	1	09/13/21 11:30	09/13/21 12:14	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	50	09/13/21 01:29	09/13/21 01:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738740	1	09/12/21 03:26	09/12/21 03:26	DWR	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## MW-8 L1400539-08 GW

Collected by  
J McLarty

Collected date/time  
09/07/21 13:30

Received date/time  
09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1739279	1	09/13/21 11:30	09/13/21 12:14	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	50	09/13/21 02:03	09/13/21 02:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738740	1	09/12/21 09:58	09/12/21 09:58	DWR	Mt. Juliet, TN

## SW-1 L1400539-09 GW

Collected by  
J McLarty

Collected date/time  
09/07/21 14:00

Received date/time  
09/08/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1739279	1	09/13/21 11:30	09/13/21 12:14	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1739042	10	09/13/21 02:15	09/13/21 02:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1738934	1	09/12/21 13:10	09/12/21 13:10	JCP	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1210		20.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	68.9		1.90	5.00	5	09/13/2021 00:09	<a href="#">WG1739042</a>
Sulfate	348		2.97	25.0	5	09/13/2021 00:09	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/11/2021 19:59	<a href="#">WG1738739</a>
Toluene	0.000518	J	0.000278	0.00100	1	09/11/2021 19:59	<a href="#">WG1738739</a>
Ethylbenzene	0.000347	J	0.000137	0.00100	1	09/11/2021 19:59	<a href="#">WG1738739</a>
Xylenes, Total	0.000272	J	0.000174	0.00300	1	09/11/2021 19:59	<a href="#">WG1738739</a>
Naphthalene	U		0.00100	0.00500	1	09/11/2021 19:59	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/11/2021 19:59	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/11/2021 19:59	<a href="#">WG1738739</a>
(S) Toluene-d8	100			80.0-120		09/11/2021 19:59	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	100			77.0-126		09/11/2021 19:59	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	120			70.0-130		09/11/2021 19:59	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	2020		25.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	93.8		3.79	10.0	10	09/13/2021 00:32	<a href="#">WG1739042</a>
Sulfate	875		5.94	50.0	10	09/13/2021 00:32	<a href="#">WG1739042</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000339	J	0.0000941	0.00100	1	09/11/2021 20:17	<a href="#">WG1738739</a>
Toluene	U		0.000278	0.00100	1	09/11/2021 20:17	<a href="#">WG1738739</a>
Ethylbenzene	U		0.000137	0.00100	1	09/11/2021 20:17	<a href="#">WG1738739</a>
Xylenes, Total	U		0.000174	0.00300	1	09/11/2021 20:17	<a href="#">WG1738739</a>
Naphthalene	U		0.00100	0.00500	1	09/11/2021 20:17	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/11/2021 20:17	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/11/2021 20:17	<a href="#">WG1738739</a>
(S) Toluene-d8	102			80.0-120		09/11/2021 20:17	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	103			77.0-126		09/11/2021 20:17	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	119			70.0-130		09/11/2021 20:17	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1530		25.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	84.4		3.79	10.0	10	09/13/2021 00:43	<a href="#">WG1739042</a>
Sulfate	632		5.94	50.0	10	09/13/2021 00:43	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000888	J	0.0000941	0.00100	1	09/11/2021 20:36	<a href="#">WG1738739</a>
Toluene	0.000502	J	0.000278	0.00100	1	09/11/2021 20:36	<a href="#">WG1738739</a>
Ethylbenzene	0.000209	J	0.000137	0.00100	1	09/11/2021 20:36	<a href="#">WG1738739</a>
Xylenes, Total	0.00117	J	0.000174	0.00300	1	09/11/2021 20:36	<a href="#">WG1738739</a>
Naphthalene	U		0.00100	0.00500	1	09/11/2021 20:36	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/11/2021 20:36	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	0.000109	J	0.000104	0.00100	1	09/11/2021 20:36	<a href="#">WG1738739</a>
(S) Toluene-d8	99.9			80.0-120		09/11/2021 20:36	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	98.1			77.0-126		09/11/2021 20:36	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	122			70.0-130		09/11/2021 20:36	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	2240		50.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	114		7.58	20.0	20	09/13/2021 00:55	<a href="#">WG1739042</a>
Sulfate	968		11.9	100	20	09/13/2021 00:55	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	09/11/2021 20:55	<a href="#">WG1738739</a>
Toluene	U		0.000278	0.00100	1	09/11/2021 20:55	<a href="#">WG1738739</a>
Ethylbenzene	U		0.000137	0.00100	1	09/11/2021 20:55	<a href="#">WG1738739</a>
Xylenes, Total	U		0.000174	0.00300	1	09/11/2021 20:55	<a href="#">WG1738739</a>
Naphthalene	U		0.00100	0.00500	1	09/11/2021 20:55	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/11/2021 20:55	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/11/2021 20:55	<a href="#">WG1738739</a>
(S) Toluene-d8	102			80.0-120		09/11/2021 20:55	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	105			77.0-126		09/11/2021 20:55	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	121			70.0-130		09/11/2021 20:55	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1560		25.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	81.0		3.79	10.0	10	09/13/2021 01:06	<a href="#">WG1739042</a>
Sulfate	605		5.94	50.0	10	09/13/2021 01:06	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.321		0.000941	0.0100	10	09/11/2021 23:43	<a href="#">WG1738739</a>
Toluene	0.0230		0.00278	0.0100	10	09/11/2021 23:43	<a href="#">WG1738739</a>
Ethylbenzene	0.00392	J	0.00137	0.0100	10	09/11/2021 23:43	<a href="#">WG1738739</a>
Xylenes, Total	0.0516		0.00174	0.0300	10	09/11/2021 23:43	<a href="#">WG1738739</a>
Naphthalene	U		0.0100	0.0500	10	09/11/2021 23:43	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	09/11/2021 23:43	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	0.00147	J	0.00104	0.0100	10	09/11/2021 23:43	<a href="#">WG1738739</a>
(S) Toluene-d8	106			80.0-120		09/11/2021 23:43	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	105			77.0-126		09/11/2021 23:43	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	121			70.0-130		09/11/2021 23:43	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2250		50.0	1	09/10/2021 20:19	<a href="#">WG1738384</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	136		7.58	20.0	20	09/13/2021 01:18	<a href="#">WG1739042</a>
Sulfate	967		11.9	100	20	09/13/2021 01:18	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/11/2021 21:13	<a href="#">WG1738739</a>
Toluene	U		0.000278	0.00100	1	09/11/2021 21:13	<a href="#">WG1738739</a>
Ethylbenzene	0.000145	J	0.000137	0.00100	1	09/11/2021 21:13	<a href="#">WG1738739</a>
Xylenes, Total	U		0.000174	0.00300	1	09/11/2021 21:13	<a href="#">WG1738739</a>
Naphthalene	U		0.00100	0.00500	1	09/11/2021 21:13	<a href="#">WG1738739</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/11/2021 21:13	<a href="#">WG1738739</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/11/2021 21:13	<a href="#">WG1738739</a>
(S) Toluene-d8	97.9			80.0-120		09/11/2021 21:13	<a href="#">WG1738739</a>
(S) 4-Bromofluorobenzene	97.5			77.0-126		09/11/2021 21:13	<a href="#">WG1738739</a>
(S) 1,2-Dichloroethane-d4	124			70.0-130		09/11/2021 21:13	<a href="#">WG1738739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	3280		50.0	1	09/13/2021 12:14	<a href="#">WG1739279</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	129		19.0	50.0	50	09/13/2021 01:29	<a href="#">WG1739042</a>
Sulfate	1010		29.7	250	50	09/13/2021 01:29	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/12/2021 03:26	<a href="#">WG1738740</a>
Toluene	U		0.000278	0.00100	1	09/12/2021 03:26	<a href="#">WG1738740</a>
Ethylbenzene	U		0.000137	0.00100	1	09/12/2021 03:26	<a href="#">WG1738740</a>
Xylenes, Total	U		0.000174	0.00300	1	09/12/2021 03:26	<a href="#">WG1738740</a>
Naphthalene	U	<a href="#">J3</a>	0.00100	0.00500	1	09/12/2021 03:26	<a href="#">WG1738740</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/12/2021 03:26	<a href="#">WG1738740</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/12/2021 03:26	<a href="#">WG1738740</a>
(S) Toluene-d8	97.8			80.0-120		09/12/2021 03:26	<a href="#">WG1738740</a>
(S) 4-Bromofluorobenzene	89.5			77.0-126		09/12/2021 03:26	<a href="#">WG1738740</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		09/12/2021 03:26	<a href="#">WG1738740</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2180		50.0	1	09/13/2021 12:14	<a href="#">WG1739279</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	148		19.0	50.0	50	09/13/2021 02:03	<a href="#">WG1739042</a>
Sulfate	1010		29.7	250	50	09/13/2021 02:03	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/12/2021 09:58	<a href="#">WG1738740</a>
Toluene	U		0.000278	0.00100	1	09/12/2021 09:58	<a href="#">WG1738740</a>
Ethylbenzene	U		0.000137	0.00100	1	09/12/2021 09:58	<a href="#">WG1738740</a>
Xylenes, Total	U		0.000174	0.00300	1	09/12/2021 09:58	<a href="#">WG1738740</a>
Naphthalene	U	<a href="#">J3</a>	0.00100	0.00500	1	09/12/2021 09:58	<a href="#">WG1738740</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/12/2021 09:58	<a href="#">WG1738740</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/12/2021 09:58	<a href="#">WG1738740</a>
(S) Toluene-d8	94.1			80.0-120		09/12/2021 09:58	<a href="#">WG1738740</a>
(S) 4-Bromofluorobenzene	90.2			77.0-126		09/12/2021 09:58	<a href="#">WG1738740</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		09/12/2021 09:58	<a href="#">WG1738740</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1330		25.0	1	09/13/2021 12:14	<a href="#">WG1739279</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	94.7		3.79	10.0	10	09/13/2021 02:15	<a href="#">WG1739042</a>
Sulfate	557		5.94	50.0	10	09/13/2021 02:15	<a href="#">WG1739042</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/12/2021 13:10	<a href="#">WG1738934</a>
Toluene	U		0.000278	0.00100	1	09/12/2021 13:10	<a href="#">WG1738934</a>
Ethylbenzene	U		0.000137	0.00100	1	09/12/2021 13:10	<a href="#">WG1738934</a>
Xylenes, Total	U		0.000174	0.00300	1	09/12/2021 13:10	<a href="#">WG1738934</a>
Naphthalene	U		0.00100	0.00500	1	09/12/2021 13:10	<a href="#">WG1738934</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/12/2021 13:10	<a href="#">WG1738934</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/12/2021 13:10	<a href="#">WG1738934</a>
(S) Toluene-d8	97.3			80.0-120		09/12/2021 13:10	<a href="#">WG1738934</a>
(S) 4-Bromofluorobenzene	94.5			77.0-126		09/12/2021 13:10	<a href="#">WG1738934</a>
(S) 1,2-Dichloroethane-d4	117			70.0-130		09/12/2021 13:10	<a href="#">WG1738934</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3704211-1 09/10/21 20:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1400373-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1400373-02 09/10/21 20:19 • (DUP) R3704211-3 09/10/21 20:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	753	775	1	2.79		5

L1400373-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1400373-03 09/10/21 20:19 • (DUP) R3704211-4 09/10/21 20:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	700	709	1	1.32		5

Laboratory Control Sample (LCS)

(LCS) R3704211-2 09/10/21 20:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8450	96.0	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3704561-1 09/13/21 12:14

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1400096-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1400096-02 09/13/21 12:14 • (DUP) R3704561-3 09/13/21 12:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	633	639	1	0.840		5

L1400096-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1400096-03 09/13/21 12:14 • (DUP) R3704561-4 09/13/21 12:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	607	665	1	9.22	J3	5

Laboratory Control Sample (LCS)

(LCS) R3704561-2 09/13/21 12:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8060	91.6	77.4-123	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3704059-1 09/12/21 19:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1400539-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1400539-01 09/13/21 00:09 • (DUP) R3704059-3 09/13/21 00:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	68.9	69.1	5	0.309		15
Sulfate	348	351	5	0.692		15

L1400680-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1400680-02 09/13/21 05:30 • (DUP) R3704059-6 09/13/21 05:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	2.21	1.84	1	18.0	P1	15
Sulfate	1.73	1.37	1	23.1	J P1	15

Laboratory Control Sample (LCS)

(LCS) R3704059-2 09/12/21 19:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	40.5	101	80.0-120	

L1400541-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400541-01 09/13/21 02:26 • (MS) R3704059-4 09/13/21 02:38 • (MSD) R3704059-5 09/13/21 02:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	51.1	98.1	100	94.0	98.3	1	80.0-120		E	2.19	15
Sulfate	50.0	167	207	209	79.5	83.5	1	80.0-120	E J6	E	0.964	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1400680-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1400680-02 09/13/21 05:30 • (MS) R3704059-7 09/13/21 05:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	2.21	51.7	99.0	1	80.0-120	
Sulfate	50.0	1.73	51.3	99.2	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3704726-2 09/11/21 17:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	101			80.0-120
(S) 4-Bromofluorobenzene	98.6			77.0-126
(S) 1,2-Dichloroethane-d4	116			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3704726-1 09/11/21 16:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00491	98.2	70.0-123	
Ethylbenzene	0.00500	0.00498	99.6	79.0-123	
Naphthalene	0.00500	0.00441	88.2	54.0-135	
Toluene	0.00500	0.00471	94.2	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00478	95.6	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00500	100	76.0-122	
Xylenes, Total	0.0150	0.0148	98.7	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	
(S) 1,2-Dichloroethane-d4			120	70.0-130	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3704753-2 09/12/21 00:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	100			80.0-120
(S) 4-Bromofluorobenzene	88.6			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704753-1 09/11/21 23:11 • (LCSD) R3704753-3 09/12/21 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00510	0.00555	102	111	70.0-123			8.45	20
Ethylbenzene	0.00500	0.00500	0.00539	100	108	79.0-123			7.51	20
Naphthalene	0.00500	0.00490	0.00388	98.0	77.6	54.0-135		J3	23.2	20
Toluene	0.00500	0.00505	0.00548	101	110	79.0-120			8.17	20
1,2,4-Trimethylbenzene	0.00500	0.00463	0.00520	92.6	104	76.0-121			11.6	20
1,3,5-Trimethylbenzene	0.00500	0.00528	0.00541	106	108	76.0-122			2.43	20
Xylenes, Total	0.0150	0.0147	0.0160	98.0	107	79.0-123			8.47	20
(S) Toluene-d8				98.3	97.4	80.0-120				
(S) 4-Bromofluorobenzene				92.5	96.0	77.0-126				
(S) 1,2-Dichloroethane-d4				112	117	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3704208-4 09/12/21 08:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	99.2			80.0-120
(S) 4-Bromofluorobenzene	92.9			77.0-126
(S) 1,2-Dichloroethane-d4	112			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3704208-1 09/12/21 07:00 • (LCSD) R3704208-2 09/12/21 07:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00550	0.00517	110	103	70.0-123			6.19	20
Ethylbenzene	0.00500	0.00507	0.00469	101	93.8	79.0-123			7.79	20
Naphthalene	0.00500	0.00285	0.00318	57.0	63.6	54.0-135			10.9	20
Toluene	0.00500	0.00502	0.00465	100	93.0	79.0-120			7.65	20
1,2,4-Trimethylbenzene	0.00500	0.00478	0.00483	95.6	96.6	76.0-121			1.04	20
1,3,5-Trimethylbenzene	0.00500	0.00505	0.00500	101	100	76.0-122			0.995	20
Xylenes, Total	0.0150	0.0151	0.0143	101	95.3	79.0-123			5.44	20
(S) Toluene-d8				95.8	95.9	80.0-120				
(S) 4-Bromofluorobenzene				95.3	94.7	77.0-126				
(S) 1,2-Dichloroethane-d4				115	114	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

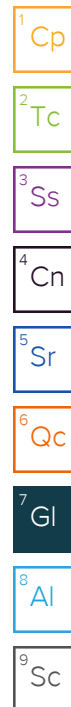
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



# ACCREDITATIONS & LOCATIONS

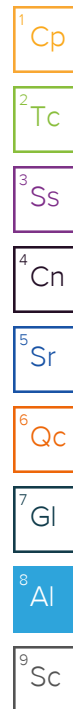
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



# Entrada Consulting Group

330 Grand Ave, Unit C  
Grand Junction, CO 81501

## Billing Information:

Stuart Hall  
330 Grand Ave, Unit C  
Grand Junction, CO 81501

Pres  
Chk

Report to:  
Stuart Hall

Email To: shall@entradainc.com;

Project Description:

Baker Canyon Spill

City/State  
Collected:

DeBeque, CO

Please Circle:  
PT MT CT ET

Phone: 970-640-0568

Client Project #

Lab Project #

ENTCONGJCO-915

Collected by (print):

J. McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

J. McLarty

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day  
Next Day ☐ 5 Day (Rad Only)  
Two Day ☐ 10 Day (Rad Only)  
Three Day ☐

Quote #

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

No.  
of  
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-1	Grab	GW		9/7/21	1000	5
MW-2					1030	1
MW-3					1100	1
MW-4					1130	1
MW-5					1200	1
MW-6					1230	1
MW-7					1300	1
MW-8					1330	1
SW-1	✓	SW		✓	1400	✓

CHLORIDE, SULFATE 125mHDPE-NoPres

TDS 250mHDPE-NoPres

V8260 40mlAmb-HCl

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



SDG # L140539

F135

Acctnum: ENTCONGJCO

Template: T180606

Prelogin: P822085

PM: 824 - Chris Ward

PB:

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_ Temp \_\_\_\_

Flow \_\_\_\_ Other \_\_\_\_

Samples returned via:

UPS FedEx Courier

Tracking #

5016 1232 3396

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N  
COC Signed/Accurate: ☒ Y ☐ N  
Bottles arrive intact: ☒ Y ☐ N  
Correct bottles used: ☒ Y ☐ N  
Sufficient volume sent: ☒ Y ☐ N  
If Applicable  
VOA Zero Headspace: ☒ Y ☐ N  
Preservation Correct/Checked: ☒ Y ☐ N  
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)

J. McLarty

Date:

9/7/21

Time:

1600

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH  
TBR

Temp: 43°C Bottles Received: 45

Relinquished by: (Signature)

[Signature]

Date:

9/7/21

Time:

1700

Received by: (Signature)

[Signature]

Temp: 43°C Bottles Received: 45

Relinquished by: (Signature)

[Signature]

Date:

9/8/21

Time:

0915

Received for lab by: (Signature)

[Signature]

Date: 9/8/21

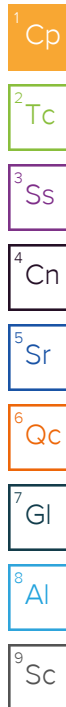
Time: 0915

Hold:

Condition:  
NCF OK



September 29, 2021



## Entrada Consulting Group

Sample Delivery Group: L1407516  
Samples Received: 09/22/2021  
Project Number:  
Description: Baker Canyon Spill  
  
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

# SAMPLE SUMMARY

## 20210920-BC-MW1 L1407516-01 GW

Collected by J McLarty  
Collected date/time 09/20/21 10:30  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	1	09/29/21 02:20	09/29/21 02:20	MCG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	5	09/29/21 02:52	09/29/21 02:52	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 21:22	09/25/21 21:22	ADM	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## 20210920-BC-MW2 L1407516-02 GW

Collected by J McLarty  
Collected date/time 09/20/21 11:30  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 03:09	09/29/21 03:09	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 21:42	09/25/21 21:42	ADM	Mt. Juliet, TN

## 20210920-BC-MW3 L1407516-03 GW

Collected by J McLarty  
Collected date/time 09/20/21 10:50  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 03:58	09/29/21 03:58	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 22:01	09/25/21 22:01	ADM	Mt. Juliet, TN

## 20210920-BC-MW4 L1407516-04 GW

Collected by J McLarty  
Collected date/time 09/20/21 11:10  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 04:31	09/29/21 04:31	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 22:21	09/25/21 22:21	ADM	Mt. Juliet, TN

## 20210920-BC-MW5 L1407516-05 GW

Collected by J McLarty  
Collected date/time 09/20/21 12:50  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 04:47	09/29/21 04:47	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 22:40	09/25/21 22:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1748591	10	09/29/21 16:00	09/29/21 16:00	ACG	Mt. Juliet, TN

## 20210920-BC-SW1 L1407516-06 GW

Collected by J McLarty  
Collected date/time 09/20/21 13:10  
Received date/time 09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 05:04	09/29/21 05:04	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 23:00	09/25/21 23:00	ADM	Mt. Juliet, TN

# SAMPLE SUMMARY

## 20210920-BC-MW6 L1407516-07 GW

Collected by  
J McLarty

Collected date/time  
09/20/21 11:50

Received date/time  
09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 05:20	09/29/21 05:20	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 23:19	09/25/21 23:19	ADM	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 20210920-BC-MW7 L1407516-08 GW

Collected by  
J McLarty

Collected date/time  
09/20/21 12:10

Received date/time  
09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	50	09/29/21 05:53	09/29/21 05:53	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 23:39	09/25/21 23:39	ADM	Mt. Juliet, TN

## 20210920-BC-MW8 L1407516-09 GW

Collected by  
J McLarty

Collected date/time  
09/20/21 12:30

Received date/time  
09/22/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1746380	1	09/25/21 13:47	09/25/21 14:59	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1748014	20	09/29/21 06:09	09/29/21 06:09	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1746587	1	09/25/21 23:59	09/25/21 23:59	ADM	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1120		20.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	67.1		0.379	1.00	1	09/29/2021 02:20	<a href="#">WG1748014</a>
Sulfate	341		2.97	25.0	5	09/29/2021 02:52	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000127	J	0.0000941	0.00100	1	09/25/2021 21:22	<a href="#">WG1746587</a>
Toluene	0.000818	J	0.000278	0.00100	1	09/25/2021 21:22	<a href="#">WG1746587</a>
Ethylbenzene	0.000513	J	0.000137	0.00100	1	09/25/2021 21:22	<a href="#">WG1746587</a>
Xylenes, Total	0.000344	J	0.000174	0.00300	1	09/25/2021 21:22	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 21:22	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 21:22	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 21:22	<a href="#">WG1746587</a>
(S) Toluene-d8	103			80.0-120		09/25/2021 21:22	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		09/25/2021 21:22	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		09/25/2021 21:22	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1980		25.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	92.3		7.58	20.0	20	09/29/2021 03:09	<a href="#">WG1748014</a>
Sulfate	890		11.9	100	20	09/29/2021 03:09	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000681	J	0.0000941	0.00100	1	09/25/2021 21:42	<a href="#">WG1746587</a>
Toluene	0.000636	J	0.000278	0.00100	1	09/25/2021 21:42	<a href="#">WG1746587</a>
Ethylbenzene	0.000612	J	0.000137	0.00100	1	09/25/2021 21:42	<a href="#">WG1746587</a>
Xylenes, Total	0.000394	J	0.000174	0.00300	1	09/25/2021 21:42	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 21:42	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 21:42	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 21:42	<a href="#">WG1746587</a>
(S) Toluene-d8	103			80.0-120		09/25/2021 21:42	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	94.3			77.0-126		09/25/2021 21:42	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		09/25/2021 21:42	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1530		25.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	72.5		7.58	20.0	20	09/29/2021 03:58	<a href="#">WG1748014</a>
Sulfate	594		11.9	100	20	09/29/2021 03:58	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000319	J	0.0000941	0.00100	1	09/25/2021 22:01	<a href="#">WG1746587</a>
Toluene	U		0.000278	0.00100	1	09/25/2021 22:01	<a href="#">WG1746587</a>
Ethylbenzene	U		0.000137	0.00100	1	09/25/2021 22:01	<a href="#">WG1746587</a>
Xylenes, Total	0.000335	J	0.000174	0.00300	1	09/25/2021 22:01	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 22:01	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 22:01	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 22:01	<a href="#">WG1746587</a>
(S) Toluene-d8	101			80.0-120		09/25/2021 22:01	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	93.7			77.0-126		09/25/2021 22:01	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		09/25/2021 22:01	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2120		50.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	104		7.58	20.0	20	09/29/2021 04:31	<a href="#">WG1748014</a>
Sulfate	963		11.9	100	20	09/29/2021 04:31	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/25/2021 22:21	<a href="#">WG1746587</a>
Toluene	U		0.000278	0.00100	1	09/25/2021 22:21	<a href="#">WG1746587</a>
Ethylbenzene	0.000198	J	0.000137	0.00100	1	09/25/2021 22:21	<a href="#">WG1746587</a>
Xylenes, Total	U		0.000174	0.00300	1	09/25/2021 22:21	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 22:21	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 22:21	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 22:21	<a href="#">WG1746587</a>
(S) Toluene-d8	103			80.0-120		09/25/2021 22:21	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		09/25/2021 22:21	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		09/25/2021 22:21	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1530		25.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	83.4		7.58	20.0	20	09/29/2021 04:47	<a href="#">WG1748014</a>
Sulfate	601		11.9	100	20	09/29/2021 04:47	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.419		0.000941	0.0100	10	09/29/2021 16:00	<a href="#">WG1748591</a>
Toluene	0.0681		0.000278	0.00100	1	09/25/2021 22:40	<a href="#">WG1746587</a>
Ethylbenzene	0.00489		0.000137	0.00100	1	09/25/2021 22:40	<a href="#">WG1746587</a>
Xylenes, Total	0.0742		0.000174	0.00300	1	09/25/2021 22:40	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 22:40	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	0.00246		0.000322	0.00100	1	09/25/2021 22:40	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	0.00228		0.000104	0.00100	1	09/25/2021 22:40	<a href="#">WG1746587</a>
(S) Toluene-d8	103			80.0-120		09/25/2021 22:40	<a href="#">WG1746587</a>
(S) Toluene-d8	98.7			80.0-120		09/29/2021 16:00	<a href="#">WG1748591</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		09/25/2021 22:40	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	100			77.0-126		09/29/2021 16:00	<a href="#">WG1748591</a>
(S) 1,2-Dichloroethane-d4	95.6			70.0-130		09/25/2021 22:40	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/29/2021 16:00	<a href="#">WG1748591</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1620		25.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	119		7.58	20.0	20	09/29/2021 05:04	<a href="#">WG1748014</a>
Sulfate	595		11.9	100	20	09/29/2021 05:04	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	09/25/2021 23:00	<a href="#">WG1746587</a>
Toluene	U		0.000278	0.00100	1	09/25/2021 23:00	<a href="#">WG1746587</a>
Ethylbenzene	U		0.000137	0.00100	1	09/25/2021 23:00	<a href="#">WG1746587</a>
Xylenes, Total	U		0.000174	0.00300	1	09/25/2021 23:00	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 23:00	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 23:00	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 23:00	<a href="#">WG1746587</a>
(S) Toluene-d8	101			80.0-120		09/25/2021 23:00	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	93.8			77.0-126		09/25/2021 23:00	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		09/25/2021 23:00	<a href="#">WG1746587</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2120		50.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	125		7.58	20.0	20	09/29/2021 05:20	<a href="#">WG1748014</a>
Sulfate	949		11.9	100	20	09/29/2021 05:20	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/25/2021 23:19	<a href="#">WG1746587</a>
Toluene	0.000340	J	0.000278	0.00100	1	09/25/2021 23:19	<a href="#">WG1746587</a>
Ethylbenzene	0.000285	J	0.000137	0.00100	1	09/25/2021 23:19	<a href="#">WG1746587</a>
Xylenes, Total	0.000189	J	0.000174	0.00300	1	09/25/2021 23:19	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 23:19	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 23:19	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 23:19	<a href="#">WG1746587</a>
(S) Toluene-d8	102			80.0-120		09/25/2021 23:19	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		09/25/2021 23:19	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		09/25/2021 23:19	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2300		50.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	131		19.0	50.0	50	09/29/2021 05:53	<a href="#">WG1748014</a>
Sulfate	943		29.7	250	50	09/29/2021 05:53	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000148	J	0.0000941	0.00100	1	09/25/2021 23:39	<a href="#">WG1746587</a>
Toluene	0.000767	J	0.000278	0.00100	1	09/25/2021 23:39	<a href="#">WG1746587</a>
Ethylbenzene	0.000452	J	0.000137	0.00100	1	09/25/2021 23:39	<a href="#">WG1746587</a>
Xylenes, Total	0.000343	J	0.000174	0.00300	1	09/25/2021 23:39	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 23:39	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 23:39	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 23:39	<a href="#">WG1746587</a>
(S) Toluene-d8	101			80.0-120		09/25/2021 23:39	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		09/25/2021 23:39	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		09/25/2021 23:39	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2280		50.0	1	09/25/2021 14:59	<a href="#">WG1746380</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	128		7.58	20.0	20	09/29/2021 06:09	<a href="#">WG1748014</a>
Sulfate	1050		11.9	100	20	09/29/2021 06:09	<a href="#">WG1748014</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	09/25/2021 23:59	<a href="#">WG1746587</a>
Toluene	U		0.000278	0.00100	1	09/25/2021 23:59	<a href="#">WG1746587</a>
Ethylbenzene	U		0.000137	0.00100	1	09/25/2021 23:59	<a href="#">WG1746587</a>
Xylenes, Total	U		0.000174	0.00300	1	09/25/2021 23:59	<a href="#">WG1746587</a>
Naphthalene	U		0.00100	0.00500	1	09/25/2021 23:59	<a href="#">WG1746587</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	09/25/2021 23:59	<a href="#">WG1746587</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	09/25/2021 23:59	<a href="#">WG1746587</a>
(S) Toluene-d8	99.4			80.0-120		09/25/2021 23:59	<a href="#">WG1746587</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		09/25/2021 23:59	<a href="#">WG1746587</a>
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		09/25/2021 23:59	<a href="#">WG1746587</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3709252-1 09/25/21 14:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1406110-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1406110-01 09/25/21 14:59 • (DUP) R3709252-3 09/25/21 14:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	952	956	1	0.419		5

L1407516-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1407516-06 09/25/21 14:59 • (DUP) R3709252-4 09/25/21 14:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1620	1620	1	0.155		5

Laboratory Control Sample (LCS)

(LCS) R3709252-2 09/25/21 14:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	9460	108	77.4-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3710228-1 09/28/21 13:29

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1406758-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1406758-02 09/28/21 23:03 • (DUP) R3710228-5 09/28/21 23:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	324	324	10	0.159		15

L1407516-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1407516-03 09/29/21 03:58 • (DUP) R3710228-7 09/29/21 04:14

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	72.5	70.6	20	2.71		15
Sulfate	594	596	20	0.244		15

Laboratory Control Sample (LCS)

(LCS) R3710228-2 09/28/21 14:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.4	98.4	80.0-120	
Sulfate	40.0	39.2	98.0	80.0-120	

L1406758-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1406758-01 09/28/21 21:57 • (MS) R3710228-3 09/28/21 22:13 • (MSD) R3710228-4 09/28/21 22:30

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	1940	1890	1890	0.000	0.000	1	80.0-120	E V	E V	0.0554	15
Sulfate	50.0	391	423	423	64.1	64.2	1	80.0-120	E V	E V	0.0118	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1407516-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1407516-01 09/29/21 02:20 • (MS) R3710228-6 09/29/21 02:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	67.1	116	97.5	1	80.0-120	<u>E</u>
Sulfate	50.0	346	380	68.7	1	80.0-120	<u>E V</u>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3709597-3 09/25/21 20:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	96.2			77.0-126
(S) 1,2-Dichloroethane-d4	96.9			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3709597-1 09/25/21 19:07 • (LCSD) R3709597-2 09/25/21 19:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00450	0.00465	90.0	93.0	70.0-123			3.28	20
Ethylbenzene	0.00500	0.00462	0.00462	92.4	92.4	79.0-123			0.000	20
Naphthalene	0.00500	0.00308	0.00334	61.6	66.8	54.0-135			8.10	20
Toluene	0.00500	0.00460	0.00465	92.0	93.0	79.0-120			1.08	20
1,2,4-Trimethylbenzene	0.00500	0.00429	0.00442	85.8	88.4	76.0-121			2.99	20
1,3,5-Trimethylbenzene	0.00500	0.00419	0.00437	83.8	87.4	76.0-122			4.21	20
Xylenes, Total	0.0150	0.0127	0.0136	84.7	90.7	79.0-123			6.84	20
(S) Toluene-d8				103	101	80.0-120				
(S) 4-Bromofluorobenzene				95.9	95.9	77.0-126				
(S) 1,2-Dichloroethane-d4				98.6	97.3	70.0-130				

L1407499-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407499-03 09/25/21 20:44 • (MS) R3709597-4 09/26/21 02:56 • (MSD) R3709597-5 09/26/21 03:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	U	0.00465	0.00464	93.0	92.8	1	17.0-158			0.215	27
Ethylbenzene	0.00500	U	0.00480	0.00471	96.0	94.2	1	30.0-155			1.89	27
Naphthalene	0.00500	U	0.00286	0.00298	57.2	59.6	1	12.0-156			4.11	35
Toluene	0.00500	U	0.00462	0.00444	92.4	88.8	1	26.0-154			3.97	28
1,2,4-Trimethylbenzene	0.00500	U	0.00444	0.00426	88.8	85.2	1	26.0-154			4.14	27
1,3,5-Trimethylbenzene	0.00500	U	0.00449	0.00422	89.8	84.4	1	28.0-153			6.20	27
Xylenes, Total	0.0150	U	0.0136	0.0136	90.7	90.7	1	29.0-154			0.000	28

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1407499-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407499-03 09/25/21 20:44 • (MS) R3709597-4 09/26/21 02:56 • (MSD) R3709597-5 09/26/21 03:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
(S) Toluene-d8					101	98.5		80.0-120				
(S) 4-Bromofluorobenzene					91.4	96.1		77.0-126				
(S) 1,2-Dichloroethane-d4					98.4	101		70.0-130				

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3710342-4 09/29/21 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	98.4			80.0-120
(S) 4-Bromofluorobenzene	93.5			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3710342-1 09/29/21 10:07 • (LCSD) R3710342-2 09/29/21 10:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00511	0.00483	102	96.6	70.0-123			5.63	20
(S) Toluene-d8				95.6	97.7	80.0-120				
(S) 4-Bromofluorobenzene				93.8	95.2	77.0-126				
(S) 1,2-Dichloroethane-d4				109	110	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

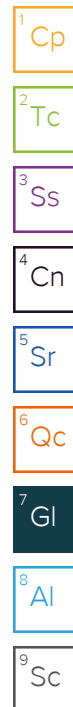
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



[illegible]



**Entrada Consulting Group**

Sample Delivery Group: L1414413  
Samples Received: 10/06/2021  
Project Number:  
Description: Baker Canyon Spill

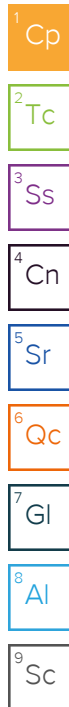
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
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<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

## 20211005-BC-MW1 L1414413-01 GW

Collected by J McLarty  
Collected date/time 10/05/21 09:30  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	5	10/13/21 00:54	10/13/21 00:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 13:11	10/16/21 13:11	JAH	Mt. Juliet, TN

## 20211005-BC-MW2 L1414413-02 GW

Collected by J McLarty  
Collected date/time 10/05/21 10:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	20	10/13/21 01:26	10/13/21 01:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 13:31	10/16/21 13:31	JAH	Mt. Juliet, TN

## 20211005-BC-MW3 L1414413-03 GW

Collected by J McLarty  
Collected date/time 10/05/21 10:30  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	10	10/13/21 01:41	10/13/21 01:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 13:51	10/16/21 13:51	JAH	Mt. Juliet, TN

## 20211005-BC-MW4 L1414413-04 GW

Collected by J McLarty  
Collected date/time 10/05/21 11:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	20	10/13/21 01:57	10/13/21 01:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 14:12	10/16/21 14:12	JAH	Mt. Juliet, TN

## 20211005-BC-MW5 L1414413-05 GW

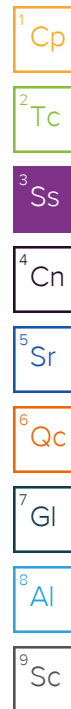
Collected by J McLarty  
Collected date/time 10/05/21 14:30  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	10	10/13/21 02:13	10/13/21 02:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	10	10/16/21 17:39	10/16/21 17:39	JAH	Mt. Juliet, TN

## 20211005-BC-MW6 L1414413-06 GW

Collected by J McLarty  
Collected date/time 10/05/21 11:30  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	20	10/13/21 03:01	10/13/21 03:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 14:33	10/16/21 14:33	JAH	Mt. Juliet, TN



# SAMPLE SUMMARY

## 20211005-BC-MW7 L1414413-07 GW

Collected by J McLarty  
Collected date/time 10/05/21 12:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	20	10/13/21 03:17	10/13/21 03:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 14:54	10/16/21 14:54	JAH	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## 20211005-BC-MW8 L1414413-08 GW

Collected by J McLarty  
Collected date/time 10/05/21 12:30  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	50	10/13/21 03:33	10/13/21 03:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 15:15	10/16/21 15:15	JAH	Mt. Juliet, TN

## 20211005-BC-MW9 L1414413-09 GW

Collected by J McLarty  
Collected date/time 10/05/21 13:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	10	10/13/21 03:49	10/13/21 03:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 15:35	10/16/21 15:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1761548	10	10/22/21 00:23	10/22/21 00:23	ADM	Mt. Juliet, TN

## 20211005-BC-MW10 L1414413-10 GW

Collected by J McLarty  
Collected date/time 10/05/21 14:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1755542	10	10/13/21 04:05	10/13/21 04:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758194	1	10/16/21 15:56	10/16/21 15:56	JAH	Mt. Juliet, TN

## 20211005-BC-SW1 L1414413-11 GW

Collected by J McLarty  
Collected date/time 10/05/21 15:00  
Received date/time 10/06/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1753908	1	10/08/21 13:36	10/09/21 12:11	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1756367	10	10/14/21 22:11	10/14/21 22:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1757746	1	10/16/21 01:00	10/16/21 01:00	ACG	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager

## Report Revision History

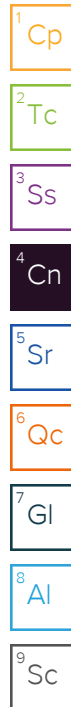
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Level II Report - Version 1: 10/25/21 10:54

## Project Narrative

---

Rerun for additional analytical run on -09



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1150		20.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	62.7		1.90	5.00	5	10/13/2021 00:54	<a href="#">WG1755542</a>
Sulfate	366		2.97	25.0	5	10/13/2021 00:54	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	10/16/2021 13:11	<a href="#">WG1758194</a>
Toluene	0.000323	J	0.000278	0.00100	1	10/16/2021 13:11	<a href="#">WG1758194</a>
Ethylbenzene	0.000257	J	0.000137	0.00100	1	10/16/2021 13:11	<a href="#">WG1758194</a>
Xylenes, Total	U		0.000174	0.00300	1	10/16/2021 13:11	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 13:11	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 13:11	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 13:11	<a href="#">WG1758194</a>
(S) Toluene-d8	105			80.0-120		10/16/2021 13:11	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	92.3			77.0-126		10/16/2021 13:11	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/16/2021 13:11	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1940		25.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	90.9		7.58	20.0	20	10/13/2021 01:26	<a href="#">WG1755542</a>
Sulfate	900		11.9	100	20	10/13/2021 01:26	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000971	J	0.0000941	0.00100	1	10/16/2021 13:31	<a href="#">WG1758194</a>
Toluene	0.00110		0.000278	0.00100	1	10/16/2021 13:31	<a href="#">WG1758194</a>
Ethylbenzene	0.000622	J	0.000137	0.00100	1	10/16/2021 13:31	<a href="#">WG1758194</a>
Xylenes, Total	0.00194	J	0.000174	0.00300	1	10/16/2021 13:31	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 13:31	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 13:31	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	0.000165	J	0.000104	0.00100	1	10/16/2021 13:31	<a href="#">WG1758194</a>
(S) Toluene-d8	103			80.0-120		10/16/2021 13:31	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		10/16/2021 13:31	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/16/2021 13:31	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1460		25.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	81.3		3.79	10.0	10	10/13/2021 01:41	<a href="#">WG1755542</a>
Sulfate	693		5.94	50.0	10	10/13/2021 01:41	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000358	J	0.0000941	0.00100	1	10/16/2021 13:51	<a href="#">WG1758194</a>
Toluene	0.000391	J	0.000278	0.00100	1	10/16/2021 13:51	<a href="#">WG1758194</a>
Ethylbenzene	U		0.000137	0.00100	1	10/16/2021 13:51	<a href="#">WG1758194</a>
Xylenes, Total	0.000413	J	0.000174	0.00300	1	10/16/2021 13:51	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 13:51	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 13:51	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 13:51	<a href="#">WG1758194</a>
(S) Toluene-d8	101			80.0-120		10/16/2021 13:51	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		10/16/2021 13:51	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/16/2021 13:51	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2160		50.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	103		7.58	20.0	20	10/13/2021 01:57	<a href="#">WG1755542</a>
Sulfate	1030		11.9	100	20	10/13/2021 01:57	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00126		0.0000941	0.00100	1	10/16/2021 14:12	<a href="#">WG1758194</a>
Toluene	0.000836	J	0.000278	0.00100	1	10/16/2021 14:12	<a href="#">WG1758194</a>
Ethylbenzene	0.000350	J	0.000137	0.00100	1	10/16/2021 14:12	<a href="#">WG1758194</a>
Xylenes, Total	0.000706	J	0.000174	0.00300	1	10/16/2021 14:12	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 14:12	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 14:12	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 14:12	<a href="#">WG1758194</a>
(S) Toluene-d8	98.1			80.0-120		10/16/2021 14:12	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	90.6			77.0-126		10/16/2021 14:12	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/16/2021 14:12	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1640		25.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	76.0		3.79	10.0	10	10/13/2021 02:13	<a href="#">WG1755542</a>
Sulfate	719		5.94	50.0	10	10/13/2021 02:13	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.317		0.000941	0.0100	10	10/16/2021 17:39	<a href="#">WG1758194</a>
Toluene	0.0672		0.00278	0.0100	10	10/16/2021 17:39	<a href="#">WG1758194</a>
Ethylbenzene	0.00396	J	0.00137	0.0100	10	10/16/2021 17:39	<a href="#">WG1758194</a>
Xylenes, Total	0.0552		0.00174	0.0300	10	10/16/2021 17:39	<a href="#">WG1758194</a>
Naphthalene	U		0.0100	0.0500	10	10/16/2021 17:39	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.00322	0.0100	10	10/16/2021 17:39	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	0.00156	J	0.00104	0.0100	10	10/16/2021 17:39	<a href="#">WG1758194</a>
(S) Toluene-d8	99.8			80.0-120		10/16/2021 17:39	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	91.8			77.0-126		10/16/2021 17:39	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/16/2021 17:39	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	2110		50.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	121		7.58	20.0	20	10/13/2021 03:01	<a href="#">WG1755542</a>
Sulfate	992		11.9	100	20	10/13/2021 03:01	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	10/16/2021 14:33	<a href="#">WG1758194</a>
Toluene	U		0.000278	0.00100	1	10/16/2021 14:33	<a href="#">WG1758194</a>
Ethylbenzene	U		0.000137	0.00100	1	10/16/2021 14:33	<a href="#">WG1758194</a>
Xylenes, Total	U		0.000174	0.00300	1	10/16/2021 14:33	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 14:33	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 14:33	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 14:33	<a href="#">WG1758194</a>
(S) Toluene-d8	101			80.0-120		10/16/2021 14:33	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		10/16/2021 14:33	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		10/16/2021 14:33	<a href="#">WG1758194</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2220		50.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	118		7.58	20.0	20	10/13/2021 03:17	<a href="#">WG1755542</a>
Sulfate	1050		11.9	100	20	10/13/2021 03:17	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	10/16/2021 14:54	<a href="#">WG1758194</a>
Toluene	U		0.000278	0.00100	1	10/16/2021 14:54	<a href="#">WG1758194</a>
Ethylbenzene	0.000157	J	0.000137	0.00100	1	10/16/2021 14:54	<a href="#">WG1758194</a>
Xylenes, Total	U		0.000174	0.00300	1	10/16/2021 14:54	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 14:54	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 14:54	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 14:54	<a href="#">WG1758194</a>
(S) Toluene-d8	101			80.0-120		10/16/2021 14:54	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	91.2			77.0-126		10/16/2021 14:54	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	117			70.0-130		10/16/2021 14:54	<a href="#">WG1758194</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	2350		50.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	131		19.0	50.0	50	10/13/2021 03:33	<a href="#">WG1755542</a>
Sulfate	1020		29.7	250	50	10/13/2021 03:33	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	10/16/2021 15:15	<a href="#">WG1758194</a>
Toluene	U		0.000278	0.00100	1	10/16/2021 15:15	<a href="#">WG1758194</a>
Ethylbenzene	U		0.000137	0.00100	1	10/16/2021 15:15	<a href="#">WG1758194</a>
Xylenes, Total	U		0.000174	0.00300	1	10/16/2021 15:15	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 15:15	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 15:15	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 15:15	<a href="#">WG1758194</a>
(S) Toluene-d8	104			80.0-120		10/16/2021 15:15	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		10/16/2021 15:15	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/16/2021 15:15	<a href="#">WG1758194</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1590		25.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	74.7		3.79	10.0	10	10/13/2021 03:49	<a href="#">WG1755542</a>
Sulfate	686		5.94	50.0	10	10/13/2021 03:49	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.396	<a href="#">E</a>	0.0000941	0.00100	1	10/16/2021 15:35	<a href="#">WG1758194</a>
Benzene	0.0377	<a href="#">Q</a>	0.000941	0.0100	10	10/22/2021 00:23	<a href="#">WG1761548</a>
Toluene	0.00365		0.000278	0.00100	1	10/16/2021 15:35	<a href="#">WG1758194</a>
Ethylbenzene	0.0133		0.000137	0.00100	1	10/16/2021 15:35	<a href="#">WG1758194</a>
Xylenes, Total	0.172		0.000174	0.00300	1	10/16/2021 15:35	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 15:35	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	0.00795		0.000322	0.00100	1	10/16/2021 15:35	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	0.00892		0.000104	0.00100	1	10/16/2021 15:35	<a href="#">WG1758194</a>
(S) Toluene-d8	98.2			80.0-120		10/16/2021 15:35	<a href="#">WG1758194</a>
(S) Toluene-d8	94.4			80.0-120		10/22/2021 00:23	<a href="#">WG1761548</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		10/16/2021 15:35	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	90.8			77.0-126		10/22/2021 00:23	<a href="#">WG1761548</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		10/16/2021 15:35	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		10/22/2021 00:23	<a href="#">WG1761548</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1850		25.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	73.9		3.79	10.0	10	10/13/2021 04:05	<a href="#">WG1755542</a>
Sulfate	788		5.94	50.0	10	10/13/2021 04:05	<a href="#">WG1755542</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000271	J	0.0000941	0.00100	1	10/16/2021 15:56	<a href="#">WG1758194</a>
Toluene	U		0.000278	0.00100	1	10/16/2021 15:56	<a href="#">WG1758194</a>
Ethylbenzene	U		0.000137	0.00100	1	10/16/2021 15:56	<a href="#">WG1758194</a>
Xylenes, Total	0.000187	J	0.000174	0.00300	1	10/16/2021 15:56	<a href="#">WG1758194</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 15:56	<a href="#">WG1758194</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 15:56	<a href="#">WG1758194</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 15:56	<a href="#">WG1758194</a>
(S) Toluene-d8	103			80.0-120		10/16/2021 15:56	<a href="#">WG1758194</a>
(S) 4-Bromofluorobenzene	88.5			77.0-126		10/16/2021 15:56	<a href="#">WG1758194</a>
(S) 1,2-Dichloroethane-d4	117			70.0-130		10/16/2021 15:56	<a href="#">WG1758194</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	1190		20.0	1	10/09/2021 12:11	<a href="#">WG1753908</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	93.0		3.79	10.0	10	10/14/2021 22:11	<a href="#">WG1756367</a>
Sulfate	359		5.94	50.0	10	10/14/2021 22:11	<a href="#">WG1756367</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	10/16/2021 01:00	<a href="#">WG1757746</a>
Toluene	U		0.000278	0.00100	1	10/16/2021 01:00	<a href="#">WG1757746</a>
Ethylbenzene	U		0.000137	0.00100	1	10/16/2021 01:00	<a href="#">WG1757746</a>
Xylenes, Total	U		0.000174	0.00300	1	10/16/2021 01:00	<a href="#">WG1757746</a>
Naphthalene	U		0.00100	0.00500	1	10/16/2021 01:00	<a href="#">WG1757746</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/16/2021 01:00	<a href="#">WG1757746</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/16/2021 01:00	<a href="#">WG1757746</a>
(S) Toluene-d8	104			80.0-120		10/16/2021 01:00	<a href="#">WG1757746</a>
(S) 4-Bromofluorobenzene	97.4			77.0-126		10/16/2021 01:00	<a href="#">WG1757746</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		10/16/2021 01:00	<a href="#">WG1757746</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Method Blank (MB)

(MB) R3715440-1 10/09/21 12:11

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1413747-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1413747-02 10/09/21 12:11 • (DUP) R3715440-3 10/09/21 12:11

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	747	747	1	0.000		5

L1414295-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1414295-08 10/09/21 12:11 • (DUP) R3715440-4 10/09/21 12:11

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1050	1050	1	0.572		5

Laboratory Control Sample (LCS)

(LCS) R3715440-2 10/09/21 12:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8630	98.1	77.4-123	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3715698-1 10/12/21 09:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1414268-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1414268-23 10/12/21 21:10 • (DUP) R3715698-3 10/12/21 21:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.37	9.21	1	1.79		15
Sulfate	4.85	4.77	1	1.81	U	15

L1414413-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1414413-01 10/13/21 00:54 • (DUP) R3715698-7 10/13/21 01:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	62.7	62.3	5	0.541		15
Sulfate	366	366	5	0.174		15

Laboratory Control Sample (LCS)

(LCS) R3715698-2 10/12/21 10:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.4	98.6	80.0-120	
Sulfate	40.0	39.4	98.4	80.0-120	

L1414268-24 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1414268-24 10/12/21 21:42 • (MS) R3715698-4 10/12/21 21:58 • (MSD) R3715698-5 10/12/21 22:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	4.62	52.8	52.9	96.3	96.5	1	80.0-120			0.130	15
Sulfate	50.0	1.07	47.7	47.9	93.3	93.7	1	80.0-120			0.424	15

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1414268-30 Original Sample (OS) • Matrix Spike (MS)

(OS) L1414268-30 10/13/21 00:22 • (MS) R3715698-6 10/13/21 00:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	35.8	85.0	98.4	1	80.0-120	
Sulfate	50.0	7.24	56.7	98.9	1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3718036-1 10/14/21 16:33

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1414543-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1414543-02 10/14/21 23:41 • (DUP) R3718036-5 10/14/21 23:58

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	62.5	62.5	1	0.0720		15

L1414751-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1414751-01 10/15/21 04:09 • (DUP) R3718036-6 10/15/21 05:03

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	42.9	42.8	1	0.259		15
Sulfate	23.9	23.9	1	0.151		15

L1414543-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1414543-02 10/18/21 19:11 • (DUP) R3718036-8 10/18/21 19:29

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	158	157	5	0.652		15

Laboratory Control Sample (LCS)

(LCS) R3718036-2 10/14/21 16:51

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.6	99.1	80.0-120	
Sulfate	40.0	40.0	100	80.0-120	

L1414543-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1414543-01 10/14/21 22:29 • (MS) R3718036-3 10/14/21 22:47 • (MSD) R3718036-4 10/14/21 23:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	62.5	110	110	95.8	96.0	1	80.0-120	E	E	0.0816	15
Sulfate	50.0	161	206	206	89.2	88.4	1	80.0-120	E	E	0.193	15

L1414751-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1414751-01 10/15/21 04:09 • (MS) R3718036-7 10/15/21 05:21

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	42.9	91.9	98.1	1	80.0-120	
Sulfate	50.0	23.9	74.9	102	1	80.0-120	

1  
Cp

2  
Tc

3  
Ss

4  
Cn

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Sr

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Qc

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Gl

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Al

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Sc

Method Blank (MB)

(MB) R3719402-3 10/15/21 21:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	94.1			77.0-126
(S) 1,2-Dichloroethane-d4	110			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3719402-1 10/15/21 20:22 • (LCSD) R3719402-2 10/15/21 20:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00480	0.00455	96.0	91.0	70.0-123			5.35	20
Ethylbenzene	0.00500	0.00491	0.00489	98.2	97.8	79.0-123			0.408	20
Naphthalene	0.00500	0.00427	0.00436	85.4	87.2	54.0-135			2.09	20
Toluene	0.00500	0.00468	0.00464	93.6	92.8	79.0-120			0.858	20
1,2,4-Trimethylbenzene	0.00500	0.00498	0.00467	99.6	93.4	76.0-121			6.42	20
1,3,5-Trimethylbenzene	0.00500	0.00516	0.00479	103	95.8	76.0-122			7.44	20
Xylenes, Total	0.0150	0.0145	0.0142	96.7	94.7	79.0-123			2.09	20
(S) Toluene-d8				102	104	80.0-120				
(S) 4-Bromofluorobenzene				100	102	77.0-126				
(S) 1,2-Dichloroethane-d4				112	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3719675-2 10/16/21 10:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) 1,2-Dichloroethane-d4	115			70.0-130
(S) 4-Bromofluorobenzene	93.4			77.0-126
(S) Toluene-d8	98.4			80.0-120

Laboratory Control Sample (LCS)

(LCS) R3719675-1 10/16/21 08:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trimethylbenzene	0.00500	0.00496	99.2	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00489	97.8	76.0-122	
Benzene	0.00500	0.00483	96.6	70.0-123	
Ethylbenzene	0.00500	0.00511	102	79.0-123	
Naphthalene	0.00500	0.00486	97.2	54.0-135	
Toluene	0.00500	0.00448	89.6	79.0-120	
Xylenes, Total	0.0150	0.0148	98.7	79.0-123	
(S) 1,2-Dichloroethane-d4			119	70.0-130	
(S) 4-Bromofluorobenzene			91.9	77.0-126	
(S) Toluene-d8			98.1	80.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3720077-2 10/21/21 21:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	88.1			80.0-120
(S) 4-Bromofluorobenzene	97.2			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3720077-1 10/21/21 20:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00548	110	70.0-123	
(S) Toluene-d8			88.3	80.0-120	
(S) 4-Bromofluorobenzene			95.2	77.0-126	
(S) 1,2-Dichloroethane-d4			101	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

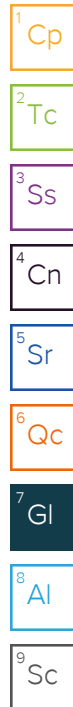
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.





# ACCREDITATIONS & LOCATIONS

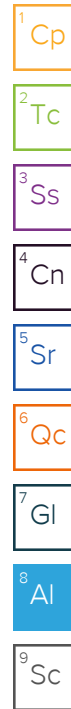
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



# Entrada Consulting Group

330 Grand Ave, Unit C  
Grand Junction, CO 81501

Billing Information:  
Stuart Hall  
330 Grand Ave, Unit C  
Grand Junction, CO 81501

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Stuart Hall

Email To: shall@entradainc.com;

Project Description:

Baker Canyon Spill

City/State  
Collected:

DeBeque, CO

Please Circle:  
PT MT CT ET

Phone: 970-640-0568

Client Project #

Lab Project #  
ENTCONGJCO-915

Collected by (print):

J. McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

J. McLarty

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day ☐  
Next Day ☐ 5 Day (Rad Only) ☐  
Two Day ☐ 10 Day (Rad Only) ☐  
Three Day ☐

Quote #

Date Results Needed

No.  
of  
Cntrs

Immediately  
Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

CHLORIDE, SULFATE 125mlHDPE-NoPres

TDS 250mlHDPE-NoPres

V8260 40mlAmb-HCl

SDG # L1414413

J236

Acctnum: ENTCONGJCO

Template: T180606

Prelogin: P822085

PM: 824 - Chris Ward

PB:

Shipped Via: FedEX Ground

Remarks

Sample # (lab only)

20211005-BC-MW1

Grab

GW

10/5/21

930

5

X

X

X

- 01

20211005-BC-MW2

1000

- 02

20211005-BC-MW3

1030

- 03

20211005-BC-MW4

1100

- 04

20211005-BC-MW5

1430

- 05

20211005-BC-MW6

1130

- 06

20211005-BC-MW7

1200

- 07

20211005-BC-MW8

1230

- 08

20211005-BC-MW9

1300

- 09

20211005-BC-MW10

1400

- 10

\* Matrix:

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

UPS FedEx Courier

Tracking # 501612322757

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N  
COC Signed/Accurate: ☒ Y ☐ N  
Bottles arrive intact: ☒ Y ☐ N  
Correct bottles used: ☒ Y ☐ N  
Sufficient volume sent: ☒ Y ☐ N  
If Applicable  
VOA Zero Headspace: ☒ Y ☐ N  
Preservation Correct/Checked: ☒ Y ☐ N  
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)

J. McLarty

Date:

10/5/21

Time:

1600

Received by: (Signature)

J. McLarty

Trip Blank Received: Yes / No

HCL / MeOH  
TBR

Relinquished by: (Signature)

J. McLarty

Date:

10/5/21

Time:

1700

Received by: (Signature)

J. McLarty

Temp: 17.8°C

2.8+1=2.9 55

If preservation required by Login: Date/Time

Relinquished by: (Signature)

J. McLarty

Date:

10/6/21

Time:

945

Received for lab by: (Signature)

J. McLarty

Date:

10/6/21

Time:

945

Hold:

Condition:

NCF / OK

# Entrada Consulting Group

330 Grand Ave, Unit C  
Grand Junction, CO 81501

## Billing Information:

Stuart Hall  
330 Grand Ave, Unit C  
Grand Junction, CO 81501

Pres  
Chk

## Analysis / Container / Preservative

Chain of Custody

Page 2 of 2



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Stuart Hall

Email To: shall@entradainc.com;

Project Description:

Baker Canyon Spill

City/State

Collected: DeBeque, CO

Please Circle:

PT ☒ MT ☐ CT ☐ ET

Phone: 970-640-0568

Client Project #

Lab Project #

ENTCONJCO-915

Collected by (print):

J. McLarty

Site/Facility ID #

P.O. #

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day  
☐ Next Day ☐ 5 Day (Rad Only)  
☐ Two Day ☐ 10 Day (Rad Only)  
☐ Three Day

Quote #

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

No.  
of  
Cntrs

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

20211005-BC-SW1

Grab

GW

10/5/21

1500

5

X

X

X

-11

\* Matrix:

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

10/5/21

Time:

1600

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: 71.1°C

Bottles Received:

28 + 1 = 29

Date:

Time:

10/6/21

945

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N  
COC Signed/Accurate: ☒ ☐ Y ☐ N  
Bottles arrive intact: ☒ ☐ Y ☐ N  
Correct bottles used: ☒ ☐ Y ☐ N  
Sufficient volume sent: ☒ ☐ Y ☐ N  
If Applicable  
VOA Zero Headspace: ☒ ☐ Y ☐ N  
Preservation Correct/Checked: ☒ ☐ Y ☐ N  
RAD Screen <0.5 mR/hr: ☒ ☐ Y ☐ N

If preservation required by Login: Date/Time

Hold:

Condition:

NCF / OK

## Entrada Consulting Group

Sample Delivery Group: L1421584  
Samples Received: 10/22/2021  
Project Number:  
Description: Baker Canyon Spill  
  
Report To: Stuart Hall  
240 Mesa Avenue  
Grand Junction, CO 81501

Entire Report Reviewed By:

*Chris Ward*

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc



# SAMPLE SUMMARY

## 20211021-BC-MW1 L1421584-01 GW

Collected by J McLarty  
Collected date/time 10/21/21 09:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	10	10/29/21 01:53	10/29/21 01:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 06:41	10/28/21 06:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 18:13	11/01/21 18:13	BMB	Mt. Juliet, TN

## 20211021-BC-MW2 L1421584-02 GW

Collected by J McLarty  
Collected date/time 10/21/21 09:30  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	20	10/29/21 02:04	10/29/21 02:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 07:00	10/28/21 07:00	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 18:34	11/01/21 18:34	BMB	Mt. Juliet, TN

## 20211021-BC-MW3 L1421584-03 GW

Collected by J McLarty  
Collected date/time 10/21/21 10:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	10	10/29/21 02:16	10/29/21 02:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 07:19	10/28/21 07:19	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 18:56	11/01/21 18:56	BMB	Mt. Juliet, TN

## 20211021-BC-MW4 L1421584-04 GW

Collected by J McLarty  
Collected date/time 10/21/21 10:30  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	20	10/29/21 02:28	10/29/21 02:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 07:38	10/28/21 07:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 19:17	11/01/21 19:17	BMB	Mt. Juliet, TN

## 20211021-BC-MW5 L1421584-05 GW

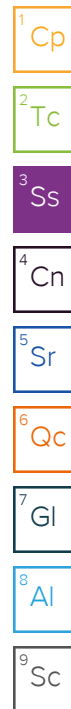
Collected by J McLarty  
Collected date/time 10/21/21 13:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	10	10/29/21 02:39	10/29/21 02:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1765288	10	10/29/21 06:09	10/29/21 06:09	JCP	Mt. Juliet, TN

## 20211021-BC-MW6 L1421584-06 GW

Collected by J McLarty  
Collected date/time 10/21/21 11:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	20	10/29/21 03:05	10/29/21 03:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 07:57	10/28/21 07:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 19:39	11/01/21 19:39	BMB	Mt. Juliet, TN



# SAMPLE SUMMARY

## 20211021-BC-MW7 L1421584-07 GW

Collected by J McLarty  
Collected date/time 10/21/21 11:30  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	20	10/29/21 03:16	10/29/21 03:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 08:16	10/28/21 08:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 20:00	11/01/21 20:00	BMB	Mt. Juliet, TN

## 20211021-BC-MW8 L1421584-08 GW

Collected by J McLarty  
Collected date/time 10/21/21 12:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	20	10/29/21 03:28	10/29/21 03:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1764705	1	10/28/21 08:35	10/28/21 08:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766634	1	11/01/21 20:22	11/01/21 20:22	BMB	Mt. Juliet, TN

## 20211021-BC-MW9 L1421584-09 GW

Collected by J McLarty  
Collected date/time 10/21/21 12:30  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	10	10/29/21 03:40	10/29/21 03:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1765288	1	10/29/21 01:24	10/29/21 01:24	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1766582	20	11/01/21 21:05	11/01/21 21:05	BMB	Mt. Juliet, TN

## 20211021-BC-MW10 L1421584-10 GW

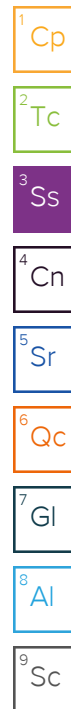
Collected by J McLarty  
Collected date/time 10/21/21 13:30  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765323	10	10/29/21 03:51	10/29/21 03:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1765288	1	10/29/21 01:43	10/29/21 01:43	JCP	Mt. Juliet, TN

## 20211021-BC-SW1 L1421584-11 GW

Collected by J McLarty  
Collected date/time 10/21/21 14:00  
Received date/time 10/22/21 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1764603	1	10/27/21 18:12	10/27/21 19:21	VRP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG1765417	5	10/29/21 08:09	10/29/21 08:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1765288	1	10/29/21 02:03	10/29/21 02:03	JCP	Mt. Juliet, TN



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris Ward  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1120		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	71.9		3.79	10.0	10	10/29/2021 01:53	<a href="#">WG1765323</a>
Sulfate	382		5.94	50.0	10	10/29/2021 01:53	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0000980	J	0.0000941	0.00100	1	10/28/2021 06:41	<a href="#">WG1764705</a>
Toluene	0.000511	J	0.000278	0.00100	1	10/28/2021 06:41	<a href="#">WG1764705</a>
Ethylbenzene	0.000308	J	0.000137	0.00100	1	10/28/2021 06:41	<a href="#">WG1764705</a>
Xylenes, Total	0.000233	J	0.000174	0.00300	1	10/28/2021 06:41	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 18:13	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 06:41	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/28/2021 06:41	<a href="#">WG1764705</a>
(S) Toluene-d8	93.8			80.0-120		10/28/2021 06:41	<a href="#">WG1764705</a>
(S) Toluene-d8	99.6			80.0-120		11/01/2021 18:13	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		10/28/2021 06:41	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	103			77.0-126		11/01/2021 18:13	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	128			70.0-130		10/28/2021 06:41	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	119			70.0-130		11/01/2021 18:13	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1970		40.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	99.7		7.58	20.0	20	10/29/2021 02:04	<a href="#">WG1765323</a>
Sulfate	875		11.9	100	20	10/29/2021 02:04	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00176		0.0000941	0.00100	1	10/28/2021 07:00	<a href="#">WG1764705</a>
Toluene	0.000425	<a href="#">J</a>	0.000278	0.00100	1	10/28/2021 07:00	<a href="#">WG1764705</a>
Ethylbenzene	0.000919	<a href="#">J</a>	0.000137	0.00100	1	10/28/2021 07:00	<a href="#">WG1764705</a>
Xylenes, Total	0.00226	<a href="#">J</a>	0.000174	0.00300	1	10/28/2021 07:00	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 18:34	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 07:00	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	0.000214	<a href="#">J</a>	0.000104	0.00100	1	10/28/2021 07:00	<a href="#">WG1764705</a>
(S) Toluene-d8	95.4			80.0-120		10/28/2021 07:00	<a href="#">WG1764705</a>
(S) Toluene-d8	98.0			80.0-120		11/01/2021 18:34	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		10/28/2021 07:00	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	102			77.0-126		11/01/2021 18:34	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	131	<a href="#">J1</a>		70.0-130		10/28/2021 07:00	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/01/2021 18:34	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1500		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	78.8		3.79	10.0	10	10/29/2021 02:16	<a href="#">WG1765323</a>
Sulfate	609		5.94	50.0	10	10/29/2021 02:16	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0138		0.0000941	0.00100	1	10/28/2021 07:19	<a href="#">WG1764705</a>
Toluene	0.0254		0.000278	0.00100	1	10/28/2021 07:19	<a href="#">WG1764705</a>
Ethylbenzene	0.00107		0.000137	0.00100	1	10/28/2021 07:19	<a href="#">WG1764705</a>
Xylenes, Total	0.0192		0.000174	0.00300	1	10/28/2021 07:19	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 18:56	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	0.000537	J	0.000322	0.00100	1	10/28/2021 07:19	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	0.000555	J	0.000104	0.00100	1	10/28/2021 07:19	<a href="#">WG1764705</a>
(S) Toluene-d8	94.5			80.0-120		10/28/2021 07:19	<a href="#">WG1764705</a>
(S) Toluene-d8	96.4			80.0-120		11/01/2021 18:56	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	95.6			77.0-126		10/28/2021 07:19	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	97.2			77.0-126		11/01/2021 18:56	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	126			70.0-130		10/28/2021 07:19	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/01/2021 18:56	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2240		40.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	128		7.58	20.0	20	10/29/2021 02:28	<a href="#">WG1765323</a>
Sulfate	1120		11.9	100	20	10/29/2021 02:28	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000498	J	0.0000941	0.00100	1	10/28/2021 07:38	<a href="#">WG1764705</a>
Toluene	0.000515	J	0.000278	0.00100	1	10/28/2021 07:38	<a href="#">WG1764705</a>
Ethylbenzene	0.000192	J	0.000137	0.00100	1	10/28/2021 07:38	<a href="#">WG1764705</a>
Xylenes, Total	0.000388	J	0.000174	0.00300	1	10/28/2021 07:38	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 19:17	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 07:38	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/28/2021 07:38	<a href="#">WG1764705</a>
(S) Toluene-d8	96.4			80.0-120		10/28/2021 07:38	<a href="#">WG1764705</a>
(S) Toluene-d8	94.7			80.0-120		11/01/2021 19:17	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	94.2			77.0-126		10/28/2021 07:38	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	98.1			77.0-126		11/01/2021 19:17	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	128			70.0-130		10/28/2021 07:38	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		11/01/2021 19:17	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1650		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	85.2		3.79	10.0	10	10/29/2021 02:39	<a href="#">WG1765323</a>
Sulfate	729		5.94	50.0	10	10/29/2021 02:39	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.570		0.000941	0.0100	10	10/29/2021 06:09	<a href="#">WG1765288</a>
Toluene	0.158		0.00278	0.0100	10	10/29/2021 06:09	<a href="#">WG1765288</a>
Ethylbenzene	0.0119		0.00137	0.0100	10	10/29/2021 06:09	<a href="#">WG1765288</a>
Xylenes, Total	0.141		0.00174	0.0300	10	10/29/2021 06:09	<a href="#">WG1765288</a>
Naphthalene	U		0.0100	0.0500	10	10/29/2021 06:09	<a href="#">WG1765288</a>
1,2,4-Trimethylbenzene	0.00373	<a href="#">J</a>	0.00322	0.0100	10	10/29/2021 06:09	<a href="#">WG1765288</a>
1,3,5-Trimethylbenzene	0.00371	<a href="#">J</a>	0.00104	0.0100	10	10/29/2021 06:09	<a href="#">WG1765288</a>
(S) Toluene-d8	116			80.0-120		10/29/2021 06:09	<a href="#">WG1765288</a>
(S) 4-Bromofluorobenzene	97.6			77.0-126		10/29/2021 06:09	<a href="#">WG1765288</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/29/2021 06:09	<a href="#">WG1765288</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	2150		40.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	137		7.58	20.0	20	10/29/2021 03:05	<a href="#">WG1765323</a>
Sulfate	1020		11.9	100	20	10/29/2021 03:05	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	10/28/2021 07:57	<a href="#">WG1764705</a>
Toluene	U		0.000278	0.00100	1	10/28/2021 07:57	<a href="#">WG1764705</a>
Ethylbenzene	U		0.000137	0.00100	1	10/28/2021 07:57	<a href="#">WG1764705</a>
Xylenes, Total	U		0.000174	0.00300	1	10/28/2021 07:57	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 19:39	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 07:57	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/28/2021 07:57	<a href="#">WG1764705</a>
(S) Toluene-d8	96.9			80.0-120		10/28/2021 07:57	<a href="#">WG1764705</a>
(S) Toluene-d8	94.3			80.0-120		11/01/2021 19:39	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		10/28/2021 07:57	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	99.6			77.0-126		11/01/2021 19:39	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	121			70.0-130		10/28/2021 07:57	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/01/2021 19:39	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2160		40.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	131		7.58	20.0	20	10/29/2021 03:16	<a href="#">WG1765323</a>
Sulfate	1010		11.9	100	20	10/29/2021 03:16	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	10/28/2021 08:16	<a href="#">WG1764705</a>
Toluene	0.000357	J	0.000278	0.00100	1	10/28/2021 08:16	<a href="#">WG1764705</a>
Ethylbenzene	0.000243	J	0.000137	0.00100	1	10/28/2021 08:16	<a href="#">WG1764705</a>
Xylenes, Total	U		0.000174	0.00300	1	10/28/2021 08:16	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 20:00	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 08:16	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/28/2021 08:16	<a href="#">WG1764705</a>
(S) Toluene-d8	95.4			80.0-120		10/28/2021 08:16	<a href="#">WG1764705</a>
(S) Toluene-d8	96.6			80.0-120		11/01/2021 20:00	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	94.2			77.0-126		10/28/2021 08:16	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	102			77.0-126		11/01/2021 20:00	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	129			70.0-130		10/28/2021 08:16	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/01/2021 20:00	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	<u>Qualifier</u>	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Dissolved Solids	2330		40.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Chloride	135		7.58	20.0	20	10/29/2021 03:28	<a href="#">WG1765323</a>
Sulfate	1080		11.9	100	20	10/29/2021 03:28	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	<u>Qualifier</u>	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	<u>Batch</u>
Benzene	U		0.0000941	0.00100	1	10/28/2021 08:35	<a href="#">WG1764705</a>
Toluene	U		0.000278	0.00100	1	10/28/2021 08:35	<a href="#">WG1764705</a>
Ethylbenzene	U		0.000137	0.00100	1	10/28/2021 08:35	<a href="#">WG1764705</a>
Xylenes, Total	U		0.000174	0.00300	1	10/28/2021 08:35	<a href="#">WG1764705</a>
Naphthalene	U		0.00100	0.00500	1	11/01/2021 20:22	<a href="#">WG1766634</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/28/2021 08:35	<a href="#">WG1764705</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/28/2021 08:35	<a href="#">WG1764705</a>
(S) Toluene-d8	97.1			80.0-120		10/28/2021 08:35	<a href="#">WG1764705</a>
(S) Toluene-d8	93.8			80.0-120		11/01/2021 20:22	<a href="#">WG1766634</a>
(S) 4-Bromofluorobenzene	92.1			77.0-126		10/28/2021 08:35	<a href="#">WG1764705</a>
(S) 4-Bromofluorobenzene	96.9			77.0-126		11/01/2021 20:22	<a href="#">WG1766634</a>
(S) 1,2-Dichloroethane-d4	126			70.0-130		10/28/2021 08:35	<a href="#">WG1764705</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		11/01/2021 20:22	<a href="#">WG1766634</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1650		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	84.6		3.79	10.0	10	10/29/2021 03:40	<a href="#">WG1765323</a>
Sulfate	705		5.94	50.0	10	10/29/2021 03:40	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.838		0.00188	0.0200	20	11/01/2021 21:05	<a href="#">WG1766582</a>
Toluene	0.00235		0.000278	0.00100	1	10/29/2021 01:24	<a href="#">WG1765288</a>
Ethylbenzene	0.0166		0.000137	0.00100	1	10/29/2021 01:24	<a href="#">WG1765288</a>
Xylenes, Total	0.137		0.000174	0.00300	1	10/29/2021 01:24	<a href="#">WG1765288</a>
Naphthalene	U		0.00100	0.00500	1	10/29/2021 01:24	<a href="#">WG1765288</a>
1,2,4-Trimethylbenzene	0.00446		0.000322	0.00100	1	10/29/2021 01:24	<a href="#">WG1765288</a>
1,3,5-Trimethylbenzene	0.00608		0.000104	0.00100	1	10/29/2021 01:24	<a href="#">WG1765288</a>
(S) Toluene-d8	109			80.0-120		10/29/2021 01:24	<a href="#">WG1765288</a>
(S) Toluene-d8	96.4			80.0-120		11/01/2021 21:05	<a href="#">WG1766582</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		10/29/2021 01:24	<a href="#">WG1765288</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		11/01/2021 21:05	<a href="#">WG1766582</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		10/29/2021 01:24	<a href="#">WG1765288</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/01/2021 21:05	<a href="#">WG1766582</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1570		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	80.1		3.79	10.0	10	10/29/2021 03:51	<a href="#">WG1765323</a>
Sulfate	692		5.94	50.0	10	10/29/2021 03:51	<a href="#">WG1765323</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000384	J	0.0000941	0.00100	1	10/29/2021 01:43	<a href="#">WG1765288</a>
Toluene	0.000315	J	0.000278	0.00100	1	10/29/2021 01:43	<a href="#">WG1765288</a>
Ethylbenzene	0.000207	J	0.000137	0.00100	1	10/29/2021 01:43	<a href="#">WG1765288</a>
Xylenes, Total	0.000245	J	0.000174	0.00300	1	10/29/2021 01:43	<a href="#">WG1765288</a>
Naphthalene	U		0.00100	0.00500	1	10/29/2021 01:43	<a href="#">WG1765288</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/29/2021 01:43	<a href="#">WG1765288</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/29/2021 01:43	<a href="#">WG1765288</a>
(S) Toluene-d8	112			80.0-120		10/29/2021 01:43	<a href="#">WG1765288</a>
(S) 4-Bromofluorobenzene	94.8			77.0-126		10/29/2021 01:43	<a href="#">WG1765288</a>
(S) 1,2-Dichloroethane-d4	123			70.0-130		10/29/2021 01:43	<a href="#">WG1765288</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1350		20.0	1	10/27/2021 19:21	<a href="#">WG1764603</a>

## Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	102		1.90	5.00	5	10/29/2021 08:09	<a href="#">WG1765417</a>
Sulfate	480		2.97	25.0	5	10/29/2021 08:09	<a href="#">WG1765417</a>

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	10/29/2021 02:03	<a href="#">WG1765288</a>
Toluene	U		0.000278	0.00100	1	10/29/2021 02:03	<a href="#">WG1765288</a>
Ethylbenzene	U		0.000137	0.00100	1	10/29/2021 02:03	<a href="#">WG1765288</a>
Xylenes, Total	U		0.000174	0.00300	1	10/29/2021 02:03	<a href="#">WG1765288</a>
Naphthalene	U		0.00100	0.00500	1	10/29/2021 02:03	<a href="#">WG1765288</a>
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	10/29/2021 02:03	<a href="#">WG1765288</a>
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	10/29/2021 02:03	<a href="#">WG1765288</a>
(S) Toluene-d8	113			80.0-120		10/29/2021 02:03	<a href="#">WG1765288</a>
(S) 4-Bromofluorobenzene	97.3			77.0-126		10/29/2021 02:03	<a href="#">WG1765288</a>
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/29/2021 02:03	<a href="#">WG1765288</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Method Blank (MB)

(MB) R3723170-1 10/27/21 19:21

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1421368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1421368-01 10/27/21 19:21 • (DUP) R3723170-3 10/27/21 19:21

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	3110	3060	1	1.46		5

L1421584-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1421584-11 10/27/21 19:21 • (DUP) R3723170-4 10/27/21 19:21

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1350	1350	1	0.593		5

Laboratory Control Sample (LCS)

(LCS) R3723170-2 10/27/21 19:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8490	96.5	77.4-123	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3723970-1 10/28/21 20:15

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1421197-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1421197-01 10/28/21 21:15 • (DUP) R3723970-3 10/28/21 21:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	56.8	56.5	1	0.373		15
Sulfate	14.0	14.0	1	0.0630		15

L1421197-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1421197-10 10/28/21 23:59 • (DUP) R3723970-6 10/29/21 00:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	12.1	12.1	1	0.381		15
Sulfate	66.2	66.2	1	0.0489		15

Laboratory Control Sample (LCS)

(LCS) R3723970-2 10/28/21 20:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.4	101	80.0-120	
Sulfate	40.0	40.9	102	80.0-120	

L1421197-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1421197-04 10/28/21 22:02 • (MS) R3723970-4 10/28/21 22:14 • (MSD) R3723970-5 10/28/21 22:25

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	56.8	104	104	94.4	94.2	1	80.0-120	E	E	0.0939	15
Sulfate	50.0	14.1	62.9	63.1	97.6	98.0	1	80.0-120			0.305	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1421197-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L1421197-10 10/28/21 23:59 • (MS) R3723970-7 10/29/21 00:23

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50.0	12.1	61.1	97.9	1	80.0-120	
Sulfate	50.0	66.2	111	90.4	1	80.0-120	E

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3723969-1 10/29/21 04:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00
Sulfate	U		0.594	5.00

L1418422-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1418422-01 10/29/21 05:25 • (DUP) R3723969-3 10/29/21 05:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	68.5	68.1	1	0.617		15
Sulfate	59.7	59.3	1	0.726		15

L1421731-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1421731-14 10/29/21 09:31 • (DUP) R3723969-6 10/29/21 09:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	U	U	1	0.000		15
Sulfate	U	U	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3723969-2 10/29/21 04:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.4	101	80.0-120	
Sulfate	40.0	40.9	102	80.0-120	

L1418422-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1418422-01 10/29/21 05:25 • (MS) R3723969-4 10/29/21 05:49 • (MSD) R3723969-5 10/29/21 06:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	68.5	116	117	95.9	96.2	1	80.0-120	E	E	0.122	15
Sulfate	50.0	59.7	107	107	94.9	95.5	1	80.0-120	E	E	0.255	15



Method Blank (MB)

(MB) R3723612-3 10/28/21 06:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	94.6			80.0-120
(S) 4-Bromofluorobenzene	93.3			77.0-126
(S) 1,2-Dichloroethane-d4	122			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3723612-1 10/28/21 05:06 • (LCSD) R3723612-2 10/28/21 05:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00520	0.00518	104	104	70.0-123			0.385	20
Ethylbenzene	0.00500	0.00456	0.00471	91.2	94.2	79.0-123			3.24	20
Toluene	0.00500	0.00465	0.00472	93.0	94.4	79.0-120			1.49	20
1,2,4-Trimethylbenzene	0.00500	0.00491	0.00498	98.2	99.6	76.0-121			1.42	20
1,3,5-Trimethylbenzene	0.00500	0.00506	0.00512	101	102	76.0-122			1.18	20
Xylenes, Total	0.0150	0.0139	0.0141	92.7	94.0	79.0-123			1.43	20
(S) Toluene-d8				95.4	96.1	80.0-120				
(S) 4-Bromofluorobenzene				95.9	96.5	77.0-126				
(S) 1,2-Dichloroethane-d4				119	120	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3723580-2 10/29/21 00:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000278	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	93.9			77.0-126
(S) 1,2-Dichloroethane-d4	117			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3723580-1 10/28/21 23:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00544	109	70.0-123	
Ethylbenzene	0.00500	0.00505	101	79.0-123	
Naphthalene	0.00500	0.00579	116	54.0-135	
Toluene	0.00500	0.00527	105	79.0-120	
1,2,4-Trimethylbenzene	0.00500	0.00574	115	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00497	99.4	76.0-122	
Xylenes, Total	0.0150	0.0155	103	79.0-123	
(S) Toluene-d8			110	80.0-120	
(S) 4-Bromofluorobenzene			96.4	77.0-126	
(S) 1,2-Dichloroethane-d4			119	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3724048-3 11/01/21 11:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	98.1			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	115			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724048-1 11/01/21 10:06 • (LCSD) R3724048-2 11/01/21 10:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00512	0.00513	102	103	70.0-123			0.195	20
(S) Toluene-d8				93.9	95.9	80.0-120				
(S) 4-Bromofluorobenzene				103	103	77.0-126				
(S) 1,2-Dichloroethane-d4				115	117	70.0-130				

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Cn

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Gl

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Sc

Method Blank (MB)

(MB) R3724049-3 11/01/21 11:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Naphthalene	U		0.00100	0.00500
(S) Toluene-d8	98.1			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	115			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3724049-1 11/01/21 10:06 • (LCSD) R3724049-2 11/01/21 10:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.00500	0.00450	0.00464	90.0	92.8	54.0-135			3.06	20
(S) Toluene-d8				93.9	95.9	80.0-120				
(S) 4-Bromofluorobenzene				103	103	77.0-126				
(S) 1,2-Dichloroethane-d4				115	117	70.0-130				

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# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

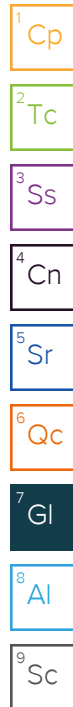
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





