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21 April 2020

Steve Moskal
BP America
1199 Main Ave Suite 101
Durango, CO 81303
RE: API - Classic, Table 910, BTEX/TPH

Enclosed are the results of analyses for samples received by the laboratory on 04/09/20 08:25. The data to follow was performed, in whole or in part, by a subcontract laboratory with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The signature is written in a cursive, flowing style.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8.



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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SS01	2004060-01	Solid	04/08/20 16:50	04/09/20 08:25	
SS02	2004060-02	Solid	04/08/20 17:10	04/09/20 08:25	
SS03	2004060-03	Solid	04/08/20 17:50	04/09/20 08:25	
SS04	2004060-04	Solid	04/08/20 16:35	04/09/20 08:25	
WS01	2004060-05	Water	04/08/20 16:30	04/09/20 08:25	
WS02	2004060-06	Water	04/08/20 17:20	04/09/20 08:25	
WS03	2004060-07	Water	04/08/20 17:30	04/09/20 08:25	

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Debbie Zufelt, Reports Manager

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Project Name / Number: Tiffany Gathering

Project Manager: Steve Moskal

Reported:

04/21/20 16:17

The glass jars for Organic analysis for sample SS02 are missing at the lab, so the Organics cannot be analyzed for 2004-060-02.

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A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS01**2004060-01 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	81.5			%	1	04/09/20 10:33	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	60.2	0.500	0.083	mg/L	5	04/17/20 10:30	EPA200.7		AES
Conductivity	3130			umho/cm @ 25.0°C	1	04/16/20 14:55	ASA#9 10-3.3		VJW
Magnesium	7.83	0.500	0.117	mg/L	5	04/17/20 10:30	EPA200.7		AES
pH	7.85			pH Units	1	04/16/20 12:55	ASA#9 12-2.6		VJW
SAR	20.4			No Unit	1	04/17/20 10:30	Calculation		AES
Sodium	634	5.00	0.503	mg/L	5	04/17/20 10:30	EPA200.7		AES

Total Metals by ICP

Barium	536	5.00	0.318	mg/kg dry	100	04/16/20 14:21	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 14:21	6010B		AES
Chromium	14.4	5.00	0.416	mg/kg dry	100	04/16/20 14:21	6010B		AES
Copper	17.2	5.00	1.40	mg/kg dry	100	04/16/20 14:21	6010B		AES
Lead	15.5	10.0	0.661	mg/kg dry	100	04/16/20 14:21	6010B		AES
Nickel	15.6	5.00	0.507	mg/kg dry	100	04/16/20 14:21	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 14:21	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 14:21	6010B		AES
Zinc	59.1	10.0	2.60	mg/kg dry	100	04/16/20 16:13	6010B		AES

Total Metals by ICPMS

Arsenic	2.05	1.00	0.0807	mg/kg dry	1000	04/16/20 10:56	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0491	0.0491	0.0085	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	1.83	1.20	0.059	mg/L	4	04/16/20 16:58	EPA200.7		AES
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Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS01

2004060-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/14/20 23:31	8021B		MS
Toluene*	0.088	0.050	0.004	mg/kg	50	04/14/20 23:31	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/14/20 23:31	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/14/20 23:31	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/14/20 23:31	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129 04/14/20 23:31 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/15/20 19:48	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/15/20 19:48	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/15/20 19:48	8015B		MS

Surrogate: 1-Chlorooctane 101 % 44.3-144 04/15/20 19:48 8015B MS

Surrogate: 1-Chlorooctadecane 106 % 42.2-156 04/15/20 19:48 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
1-Methylnaphthalene	<0.040	0.040	0.006	mg/kg	40	04/17/20 11:54	8270C		MS
Acenaphthylene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
Acenaphthene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 11:54	8270C		MS
Fluorene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 11:54	8270C		MS
Phenanthrene*	<0.040	0.040	0.005	mg/kg	40	04/17/20 11:54	8270C		MS
Anthracene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS
Carbazole*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS
Fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
Pyrene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 11:54	8270C		MS
Benzo[a]anthracene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
Chrysene*	<0.040	0.040	0.0008	mg/kg	40	04/17/20 11:54	8270C		MS
Benzo[b]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 11:54	8270C		MS
Benzo[a]pyrene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS

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Debbie Zufelt, Reports Manager

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS01

2004060-01 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 11:54	8270C		MS
Dibenz[a,h]anthracene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS
Benzo[g,h,i]perylene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 11:54	8270C		MS
Surrogate: Nitrobenzene-d5			72.2 %	11.5-118		04/17/20 11:54	8270C		MS
Surrogate: 2-Fluorobiphenyl			84.6 %	19.4-118		04/17/20 11:54	8270C		MS
Surrogate: Terphenyl-d14			90.5 %	20.1-127		04/17/20 11:54	8270C		MS
Cation/Anion Balance	100.								

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Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS02**2004060-02 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	80.6			%	1	04/09/20 10:33	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	166	0.500	0.083	mg/L	5	04/17/20 10:32	EPA200.7		AES
Conductivity	2960			umho/cm @ 25.0°C	1	04/16/20 14:55	ASA#9 10-3.3		VJW
Magnesium	23.3	0.500	0.117	mg/L	5	04/17/20 10:32	EPA200.7		AES
pH	6.93			pH Units	1	04/16/20 12:55	ASA#9 12-2.6		VJW
SAR	8.24			No Unit	1	04/17/20 10:32	Calculation		AES
Sodium	428	5.00	0.503	mg/L	5	04/17/20 10:32	EPA200.7		AES

Total Metals by ICP

Barium	445	5.00	0.318	mg/kg dry	100	04/16/20 16:17	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 16:17	6010B		AES
Chromium	12.3	5.00	0.416	mg/kg dry	100	04/16/20 16:17	6010B		AES
Copper	13.9	5.00	1.40	mg/kg dry	100	04/16/20 16:17	6010B		AES
Lead	12.6	10.0	0.661	mg/kg dry	100	04/16/20 16:17	6010B		AES
Nickel	12.4	5.00	0.507	mg/kg dry	100	04/16/20 16:17	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 16:17	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 16:17	6010B		AES
Zinc	53.6	10.0	2.60	mg/kg dry	100	04/16/20 16:17	6010B		AES

Total Metals by ICPMS

Arsenic	4.47	1.00	0.0807	mg/kg dry	1000	04/16/20 11:06	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0496	0.0496	0.0086	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	1.28	1.20	0.059	mg/L	4	04/16/20 17:07	EPA200.7		AES
Cation/Anion Balance	100.								

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS03**2004060-03 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	50.6			%	1	04/09/20 10:33	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	194	2.00	0.332	mg/L	20	04/17/20 10:34	EPA200.7		AES
Conductivity	12800			umho/cm @ 25.0°C	1	04/16/20 14:55	ASA#9 10-3.3		VJW
Magnesium	40.9	2.00	0.470	mg/L	20	04/17/20 10:34	EPA200.7		AES
pH	7.58			pH Units	1	04/16/20 12:55	ASA#9 12-2.6		VJW
SAR	50.9			No Unit	1	04/17/20 10:34	Calculation		AES
Sodium	2990	20.0	2.01	mg/L	20	04/17/20 10:34	EPA200.7		AES

Total Metals by ICP

Barium	443	5.00	0.318	mg/kg dry	100	04/16/20 16:21	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 16:21	6010B		AES
Chromium	9.59	5.00	0.416	mg/kg dry	100	04/16/20 16:21	6010B		AES
Copper	12.4	5.00	1.40	mg/kg dry	100	04/16/20 16:21	6010B		AES
Lead	10.2	10.0	0.661	mg/kg dry	100	04/16/20 16:21	6010B		AES
Nickel	9.12	5.00	0.507	mg/kg dry	100	04/16/20 16:21	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 16:21	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 16:21	6010B		AES
Zinc	58.3	10.0	2.60	mg/kg dry	100	04/16/20 16:21	6010B		AES

Total Metals by ICPMS

Arsenic	3.78	1.00	0.0807	mg/kg dry	1000	04/16/20 11:10	6020A		AES
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Total Mercury by CVAA

Mercury	<0.0791	0.0791	0.0136	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	5.94	1.20	0.059	mg/L	4	04/16/20 17:09	EPA200.7		AES
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1199 Main Ave Suite 101
Durango CO, 81303Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve MoskalReported:
04/21/20 16:17

SS03

2004060-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.005	mg/kg	50	04/14/20 23:45	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	04/14/20 23:45	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	04/14/20 23:45	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	04/14/20 23:45	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	04/14/20 23:45	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	99.7 %	73.3-129		04/14/20 23:45	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	04/15/20 20:13	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	04/15/20 20:13	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	04/15/20 20:13	8015B		MS

Surrogate: 1-Chlorooctane	107 %	44.3-144		04/15/20 20:13	8015B		MS
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Surrogate: 1-Chlorooctadecane	113 %	42.2-156		04/15/20 20:13	8015B		MS
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Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS
2-Methylnaphthalene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
1-Methylnaphthalene	<0.040	0.040	0.006	mg/kg	40	04/17/20 12:21	8270C		MS
Acenaphthylene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
Acenaphthene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 12:21	8270C		MS
Fluorene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 12:21	8270C		MS
Phenanthrene*	<0.040	0.040	0.005	mg/kg	40	04/17/20 12:21	8270C		MS
Anthracene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS
Carbazole*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS
Fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
Pyrene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 12:21	8270C		MS
Benzo[a]anthracene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
Chrysene*	<0.040	0.040	0.0008	mg/kg	40	04/17/20 12:21	8270C		MS
Benzo[b]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
Benzo[k]fluoranthene*	<0.040	0.040	0.002	mg/kg	40	04/17/20 12:21	8270C		MS
Benzo[a]pyrene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS

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Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS03

2004060-03 (Soil)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Polynuclear Aromatic Compounds by GC/MS

Indeno[1,2,3-cd]pyrene*	<0.040	0.040	0.003	mg/kg	40	04/17/20 12:21	8270C		MS
Dibenz[a,h]anthracene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS
Benzo[g,h,i]perylene*	<0.040	0.040	0.004	mg/kg	40	04/17/20 12:21	8270C		MS
Surrogate: Nitrobenzene-d5			73.4 %	11.5-118		04/17/20 12:21	8270C		MS
Surrogate: 2-Fluorobiphenyl			85.3 %	19.4-118		04/17/20 12:21	8270C		MS
Surrogate: Terphenyl-d14			86.6 %	20.1-127		04/17/20 12:21	8270C		MS
Cation/Anion Balance	100.								

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Debbie Zufelt

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Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

SS04**2004060-04 (Soil)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

% Dry Solids	87.4			%	1	04/09/20 10:33	EPA160.3/1684		VJW
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Saturated Paste Extraction

Calcium	70.0	0.100	0.017	mg/L	1	04/17/20 10:36	EPA200.7		AES
Conductivity	475			umho/cm @ 25.0°C	1	04/16/20 14:55	ASA#9 10-3.3		VJW
Magnesium	9.91	0.100	0.023	mg/L	1	04/17/20 10:37	EPA200.7		AES
pH	7.36			pH Units	1	04/16/20 12:55	ASA#9 12-2.6		VJW
SAR	0.21			No Unit	1	04/17/20 10:36	Calculation		AES
Sodium	7.06	1.00	0.101	mg/L	1	04/17/20 10:36	EPA200.7		AES

Total Metals by ICP

Barium	277	5.00	0.318	mg/kg dry	100	04/16/20 16:25	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	04/16/20 16:26	6010B		AES
Chromium	6.48	5.00	0.416	mg/kg dry	100	04/16/20 16:26	6010B		AES
Copper	12.5	5.00	1.40	mg/kg dry	100	04/16/20 16:26	6010B		AES
Lead	13.3	10.0	0.661	mg/kg dry	100	04/16/20 16:26	6010B		AES
Nickel	12.0	5.00	0.507	mg/kg dry	100	04/16/20 16:26	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	04/16/20 16:25	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	04/16/20 16:26	6010B		AES
Zinc	60.0	10.0	2.60	mg/kg dry	100	04/16/20 16:26	6010B		AES

Total Metals by ICPMS

Arsenic	21.2	1.00	0.0807	mg/kg dry	1000	04/16/20 11:20	6020A		AES
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Total Mercury by CVAA

Mercury	0.145	0.0458	0.0079	mg/kg dry	200	04/14/20 13:11	EPA7471		LLG
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Hot Water Extractable

Boron	<1.20	1.20	0.059	mg/L	4	04/16/20 17:14	EPA200.7		AES
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Cation/Anion Balance	100.
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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve MoskalReported:
04/21/20 16:17

WS01

2004060-05 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO ₃ *	3920	10.0		mg/L	5	04/15/20 08:31	2320 B		VJW
Alkalinity, Carbonate as CaCO ₃ *	260	10.0		mg/L	5	04/15/20 08:31	2320 B		VJW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0		mg/L	5	04/15/20 08:31	2320 B		VJW
Alkalinity, Total as CaCO ₃ *	4180	10.0	7.16	mg/L	5	04/15/20 08:31	2320 B		VJW
Chloride*	1580	200	17.7	mg/L	200	04/13/20 20:34	EPA300.0		AES
Conductivity*	12400	10.0		umho/cm @ 25.0°C	1	04/09/20 12:25	2510 B		FGH
pH*	7.65			pH Units	1	04/09/20 12:25	EPA150.1		FGH
Resistivity	80.9			ohm/cm	1	04/09/20 12:25	2510 B		FGH
Total Dissolved Solids*	7470	20.0		mg/L	2	04/13/20 09:45	EPA160.1		VJW
Specific Gravity	1.008	0.8000		No Unit	1	04/09/20 15:35	ASTM D1429-03		VJW
Sulfate*	<200	200	30.5	mg/L	200	04/13/20 20:34	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Iron*	7.08	1.00	0.683	mg/L	20	04/15/20 15:19	EPA200.7		AES
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Dissolved Metals by ICP

Barium*	0.562	0.020	0.002	mg/L	1	04/15/20 12:23	EPA200.7		AES
Calcium*	22.3	2.00	0.332	mg/L	20	04/15/20 12:22	EPA200.7		AES
Hardness as CaCO ₃	85.7	13.2	2.76	mg/L	20	04/15/20 12:22	2340 B		AES
Iron*	<1.00	1.00	0.368	mg/L	20	04/15/20 12:22	EPA200.7		AES
Magnesium*	7.28	2.00	0.470	mg/L	20	04/15/20 12:22	EPA200.7		AES
Manganese*	<0.020	0.020	0.002	mg/L	1	04/15/20 12:22	EPA200.7		AES
Potassium*	<20.0	20.0	2.60	mg/L	20	04/15/20 12:22	EPA200.7		AES
Sodium*	2830	20.0	2.01	mg/L	20	04/15/20 12:22	EPA200.7		AES
Strontium*	0.375	0.100	0.004	mg/L	1	04/15/20 12:22	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	0.006	0.001	0.00006	mg/L	1	04/17/20 13:51	8021B		MS
Toluene*	<0.001	0.001	0.0003	mg/L	1	04/17/20 13:51	8021B		MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	04/17/20 13:51	8021B		MS
Total Xylenes*	0.005	0.003	0.0003	mg/L	1	04/17/20 13:51	8021B		MS
Total BTEX	0.011	0.006	0.0005	mg/L	1	04/17/20 13:51	8021B		MS

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

WS01

2004060-05 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Surrogate: 4-Bromofluorobenzene (PID)	101 %	58.2-133				04/17/20 13:51	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0744	mg/L	0.1	04/21/20 13:33	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.390	mg/L	0.1	04/21/20 13:33	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.390	mg/L	0.1	04/21/20 13:33	8015B		MS
Surrogate: 1-Chlorooctane	103 %	34.5-148				04/21/20 13:33	8015B		MS
Surrogate: 1-Chlorooctadecane	111 %	46.4-149				04/21/20 13:33	8015B		MS

Cation/Anion Balance -1.15

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

WS02**2004060-06 (Surface Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.001	0.001	0.00006	mg/L	1	04/20/20 13:14	8021B		MS
Toluene*	<0.001	0.001	0.0003	mg/L	1	04/20/20 13:14	8021B		MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	04/20/20 13:14	8021B		MS
Total Xylenes*	<0.003	0.003	0.0003	mg/L	1	04/20/20 13:14	8021B		MS
Total BTEX	<0.006	0.006	0.0005	mg/L	1	04/20/20 13:14	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 101 % 58.2-133 04/20/20 13:14 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0744	mg/L	0.1	04/21/20 13:59	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.390	mg/L	0.1	04/21/20 13:59	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.390	mg/L	0.1	04/21/20 13:59	8015B		MS

Surrogate: 1-Chlorooctane 88.8 % 34.5-148 04/21/20 13:59 8015B MS

Surrogate: 1-Chlorooctadecane 107 % 46.4-149 04/21/20 13:59 8015B MS

Cation/Anion Balance

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

WS03

2004060-07 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO ₃ *	179	10.0		mg/L	1	04/15/20 08:31	2320 B		VJW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0		mg/L	1	04/15/20 08:31	2320 B		VJW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0		mg/L	1	04/15/20 08:31	2320 B		VJW
Alkalinity, Total as CaCO ₃ *	179	10.0	7.16	mg/L	1	04/15/20 08:31	2320 B		VJW
Chloride*	<25.0	25.0	2.21	mg/L	25	04/13/20 20:53	EPA300.0		AES
Conductivity*	425	10.0		umho/cm @ 25.0°C	1	04/09/20 12:25	2510 B		FGH
pH*	7.12			pH Units	1	04/09/20 12:25	EPA150.1		FGH
Resistivity	2350			ohm/cm	1	04/09/20 12:25	2510 B		FGH
Total Dissolved Solids*	200	10.0		mg/L	1	04/13/20 09:45	EPA160.1		VJW
Specific Gravity	1.000	0.8000		No Unit	1	04/09/20 15:35	ASTM D1429-03		VJW
Sulfate*	<25.0	25.0	3.81	mg/L	25	04/13/20 20:53	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Iron*	11.5	1.00	0.683	mg/L	20	04/15/20 15:22	EPA200.7		AES
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Dissolved Metals by ICP

Barium*	<0.020	0.020	0.002	mg/L	1	04/15/20 12:25	EPA200.7		AES
Calcium*	27.6	2.00	0.332	mg/L	20	04/15/20 12:25	EPA200.7		AES
Hardness as CaCO ₃	90.8	13.2	2.76	mg/L	20	04/15/20 12:25	2340 B		AES
Iron*	2.50	1.00	0.368	mg/L	20	04/15/20 12:25	EPA200.7		AES
Magnesium*	5.31	2.00	0.470	mg/L	20	04/15/20 12:25	EPA200.7		AES
Manganese*	0.270	0.020	0.002	mg/L	1	04/15/20 12:25	EPA200.7		AES
Potassium*	<20.0	20.0	2.60	mg/L	20	04/15/20 12:25	EPA200.7		AES
Sodium*	49.1	20.0	2.01	mg/L	20	04/15/20 12:25	EPA200.7		AES
Strontium*	<0.100	0.100	0.004	mg/L	1	04/15/20 12:25	EPA200.7		AES

Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.001	0.001	0.00006	mg/L	1	04/17/20 14:07	8021B		MS
Toluene*	0.001	0.001	0.0003	mg/L	1	04/17/20 14:07	8021B		MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	04/17/20 14:07	8021B		MS
Total Xylenes*	<0.003	0.003	0.0003	mg/L	1	04/17/20 14:07	8021B		MS
Total BTEX	<0.006	0.006	0.0005	mg/L	1	04/17/20 14:07	8021B		MS

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

WS03

2004060-07 (Surface Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Surrogate: 4-Bromofluorobenzene (PID)	100 %	58.2-133				04/17/20 14:07	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<1.00	1.00	0.0744	mg/L	0.1	04/21/20 14:24	8015B		MS
DRO >C10-C28*	<1.00	1.00	0.390	mg/L	0.1	04/21/20 14:24	8015B		MS
EXT DRO >C28-C36	<1.00	1.00	0.390	mg/L	0.1	04/21/20 14:24	8015B		MS
Surrogate: 1-Chlorooctane	96.3 %	34.5-148				04/21/20 14:24	8015B		MS
Surrogate: 1-Chlorooctadecane	103 %	46.4-149				04/21/20 14:24	8015B		MS

Cation/Anion Balance -2.16

Green Analytical Laboratories

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200574 - General Prep - Wet Chem										
Duplicate (B200574-DUP1)		Source: 2004051-01		Prepared & Analyzed: 04/09/20						
% Dry Solids	95.0		%		94.4			0.567	20	
Batch B200575 - General Prep - Wet Chem										
Duplicate (B200575-DUP1)		Source: 2004061-02		Prepared & Analyzed: 04/09/20						
Specific Gravity	1.004	0.8000	No Unit		1.003			0.0996	20	
Batch B200578 - General Prep - Wet Chem										
Blank (B200578-BLK1)		Prepared & Analyzed: 04/13/20								
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (B200578-DUP1)		Source: 2004039-01		Prepared & Analyzed: 04/13/20						
Total Dissolved Solids	985	10.0	mg/L		965			2.05	20	
Reference (B200578-SRM1)		Prepared & Analyzed: 04/13/20								
Total Dissolved Solids	520	10.0	mg/L	570		91.2	85-115			
Batch B200585 - General Prep - Wet Chem										
Duplicate (B200585-DUP1)		Source: 2004060-05		Prepared & Analyzed: 04/09/20						
pH	7.67		pH Units		7.65			0.261	20	
Reference (B200585-SRM1)		Prepared & Analyzed: 04/09/20								
pH	6.99		pH Units	7.00		99.9	98.5-101.4			
Batch B200587 - General Prep - Wet Chem										
Duplicate (B200587-DUP1)		Source: 2004060-05		Prepared & Analyzed: 04/09/20						
Conductivity	12400	10.0	umho/cm @ 25.0°C		12400			0.0809	20	
Reference (B200587-SRM1)		Prepared & Analyzed: 04/09/20								
Conductivity	509	10.0	umho/cm @ 25.0°C	491		104	90-110.1			
Batch B200593 - General Prep - Wet Chem										
Blank (B200593-BLK1)		Prepared & Analyzed: 04/13/20								
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200593 - General Prep - Wet Chem (Continued)

LCS (B200593-BS1)

Prepared & Analyzed: 04/13/20

Chloride	24.2	1.00	mg/L	25.0		96.6	90-110			
Sulfate	24.4	1.00	mg/L	25.0		97.7	90-110			

LCS Dup (B200593-BSD1)

Prepared & Analyzed: 04/13/20

Chloride	24.3	1.00	mg/L	25.0		97.2	90-110	0.520	20	
Sulfate	24.5	1.00	mg/L	25.0		98.0	90-110	0.233	20	

Batch B200600 - General Prep - Wet Chem

Blank (B200600-BLK1)

Prepared: 04/14/20 Analyzed: 04/15/20

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L							
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L							

LCS (B200600-BS1)

Prepared: 04/14/20 Analyzed: 04/15/20

Alkalinity, Bicarbonate as CaCO ₃	99.0	10.0	mg/L				85-115			
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L				85-115			
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L				85-115			
Alkalinity, Total as CaCO ₃	99.0	10.0	mg/L	100		99.0	85-115			

LCS Dup (B200600-BSD1)

Prepared: 04/14/20 Analyzed: 04/15/20

Alkalinity, Bicarbonate as CaCO ₃	101	10.0	mg/L				85-115	2.00	20	
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L				85-115		20	
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L				85-115		20	
Alkalinity, Total as CaCO ₃	101	10.0	mg/L	100		101	85-115	2.00	20	

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch B200611 - Paste Extract

Blank (B200611-BLK1)

Prepared: 04/14/20 Analyzed: 04/17/20

Calcium	ND	0.100	mg/L						
Magnesium	ND	0.100	mg/L						
Sodium	ND	1.00	mg/L						

Duplicate (B200611-DUP1)

Source: 2004075-01 Prepared: 04/14/20 Analyzed: 04/17/20

Calcium	37.3	0.100	mg/L		35.3		5.47	20	
Magnesium	8.48	0.100	mg/L		8.17		3.66	20	
SAR	6.96		No Unit		7.10		1.99	20	
Sodium	181	1.00	mg/L		180		0.568	20	

Batch B200612 - Paste Extract

Duplicate (B200612-DUP1)

Source: 2004075-01 Prepared: 04/14/20 Analyzed: 04/16/20

Conductivity	1140		umho/cm @ 25.0°C		1120		1.69	20	
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Batch B200613 - Paste Extract

Duplicate (B200613-DUP1)

Source: 2004075-01 Prepared: 04/14/20 Analyzed: 04/16/20

pH	7.96		pH Units		7.99		0.376	20	
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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
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Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200580 - EPA 3050

Blank (B200580-BLK1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	ND	5.00	mg/kg dry
Cadmium	ND	5.00	mg/kg dry
Chromium	ND	5.00	mg/kg dry
Copper	ND	5.00	mg/kg dry
Lead	ND	10.0	mg/kg dry
Nickel	ND	5.00	mg/kg dry
Selenium	ND	20.0	mg/kg dry
Silver	ND	1.00	mg/kg dry
Zinc	ND	10.0	mg/kg dry

LCS (B200580-BS1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	207	5.00	mg/kg dry	200	103	80-120
Cadmium	193	5.00	mg/kg dry	200	96.5	80-120
Chromium	199	5.00	mg/kg dry	200	99.6	80-120
Copper	421	5.00	mg/kg dry	400	105	80-120
Lead	198	10.0	mg/kg dry	200	99.1	80-120
Nickel	203	5.00	mg/kg dry	200	101	80-120
Selenium	855	20.0	mg/kg dry	800	107	80-120
Silver	10.5	1.00	mg/kg dry	10.0	105	80-120
Zinc	189	10.0	mg/kg dry	200	94.4	80-120

LCS Dup (B200580-BSD1)

Prepared: 04/14/20 Analyzed: 04/16/20

Barium	202	5.00	mg/kg dry	200	101	80-120	2.44	20
Cadmium	188	5.00	mg/kg dry	200	94.1	80-120	2.48	20
Chromium	194	5.00	mg/kg dry	200	97.1	80-120	2.52	20
Copper	412	5.00	mg/kg dry	400	103	80-120	2.10	20
Lead	195	10.0	mg/kg dry	200	97.7	80-120	1.38	20
Nickel	192	5.00	mg/kg dry	200	96.2	80-120	5.40	20
Selenium	861	20.0	mg/kg dry	800	108	80-120	0.719	20
Silver	10.3	1.00	mg/kg dry	10.0	103	80-120	1.44	20
Zinc	185	10.0	mg/kg dry	200	92.6	80-120	1.96	20

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
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Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200582 - Total Rec. 200.7/200.8/200.2

Blank (B200582-BLK1)

Prepared: 04/13/20 Analyzed: 04/15/20

Iron	ND	0.050	mg/L							
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LCS (B200582-BS1)

Prepared: 04/13/20 Analyzed: 04/15/20

Iron	4.12	0.050	mg/L	4.00	103	85-115				
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LCS Dup (B200582-BSD1)

Prepared: 04/13/20 Analyzed: 04/15/20

Iron	4.13	0.050	mg/L	4.00	103	85-115	0.0400	20		
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Project Manager: Steve Moskal

Reported:
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Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200602 - Diss. 200.7/200.8

Blank (B200602-BLK1)

Prepared: 04/14/20 Analyzed: 04/15/20

Barium	ND	0.020	mg/L
Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Manganese	ND	0.020	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L
Strontium	ND	0.100	mg/L

LCS (B200602-BS1)

Prepared: 04/14/20 Analyzed: 04/15/20

Barium	2.43	0.020	mg/L	2.50	97.4	85-115
Calcium	5.04	0.100	mg/L	5.00	101	85-115
Iron	4.92	0.050	mg/L	5.00	98.4	85-115
Magnesium	25.4	0.100	mg/L	25.0	102	85-115
Manganese	2.47	0.020	mg/L	2.50	99.0	85-115
Potassium	10.2	1.00	mg/L	10.0	102	85-115
Sodium	4.07	1.00	mg/L	4.05	101	85-115
Strontium	4.97	0.100	mg/L	5.00	99.4	85-115

LCS Dup (B200602-BSD1)

Prepared: 04/14/20 Analyzed: 04/15/20

Barium	2.49	0.020	mg/L	2.50	99.7	85-115	2.43	20
Calcium	5.05	0.100	mg/L	5.00	101	85-115	0.121	20
Iron	4.93	0.050	mg/L	5.00	98.6	85-115	0.256	20
Magnesium	25.4	0.100	mg/L	25.0	102	85-115	0.208	20
Manganese	2.46	0.020	mg/L	2.50	98.6	85-115	0.388	20
Potassium	10.2	1.00	mg/L	10.0	102	85-115	0.240	20
Sodium	4.09	1.00	mg/L	4.05	101	85-115	0.444	20
Strontium	4.96	0.100	mg/L	5.00	99.2	85-115	0.218	20

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Project Manager: Steve Moskal

Reported:
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Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200581 - EPA 3050M

Blank (B200581-BLK1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic	ND	0.100	mg/kg dry							
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LCS (B200581-BS1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic	5.44	0.100	mg/kg dry	5.00		109	80-120			
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LCS Dup (B200581-BSD1)

Prepared: 04/13/20 Analyzed: 04/16/20

Arsenic	5.53	0.100	mg/kg dry	5.00		111	80-120	1.57	20	
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Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200562 - EPA 7471

Blank (B200562-BLK1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury	ND	0.0002	mg/kg wet							
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LCS (B200562-BS1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury	0.0053	0.0002	mg/kg wet	0.00500		105	85-115			
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LCS Dup (B200562-BSD1)

Prepared: 04/13/20 Analyzed: 04/14/20

Mercury	0.0052	0.0002	mg/kg wet	0.00500		105	85-115	0.457	20	
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Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200614 - Hot Water Soluble Metals Extract

Blank (B200614-BLK1)

Prepared: 04/14/20 Analyzed: 04/16/20

Boron	ND	1.20	mg/L							
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Duplicate (B200614-DUP1)

Source: 2004060-01

Prepared: 04/14/20 Analyzed: 04/16/20

Boron	1.86	1.20	mg/L		1.83			1.72	200	
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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041416 - Volatiles**Blank (0041416-BLK1)**

Prepared & Analyzed: 04/14/20

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.9	73.3-129			
Benzene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (0041416-BS1)

Prepared & Analyzed: 04/14/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.7	73.3-129			
Benzene	1.87	0.050	mg/kg	2.00		93.7	72.2-131			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	68.9-126			
Toluene	1.81	0.050	mg/kg	2.00		90.4	71.7-126			
Total Xylenes	5.25	0.150	mg/kg	6.00		87.4	71.4-125			

LCS Dup (0041416-BSD1)

Prepared & Analyzed: 04/14/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.2	73.3-129			
Benzene	2.05	0.050	mg/kg	2.00		103	72.2-131	9.07	14.6	
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	68.9-126	9.28	18.9	
Toluene	1.99	0.050	mg/kg	2.00		99.4	71.7-126	9.44	17.4	
Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	71.4-125	9.52	18.5	

Batch 0041506 - Volatiles**Blank (0041506-BLK1)**

Prepared: 04/15/20 Analyzed: 04/17/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/L	0.0500		100	58.2-133			
Benzene	ND	0.001	mg/L							
Ethylbenzene	ND	0.001	mg/L							
Toluene	ND	0.001	mg/L							
Total BTEX	ND	0.006	mg/L							
Total Xylenes	ND	0.003	mg/L							

LCS (0041506-BS1)

Prepared: 04/15/20 Analyzed: 04/17/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/L	0.0500		102	58.2-133			
Benzene	0.021	0.001	mg/L	0.0200		105	84.9-114			
Ethylbenzene	0.022	0.001	mg/L	0.0200		109	76.2-120			
Toluene	0.021	0.001	mg/L	0.0200		105	76.9-116			
Total Xylenes	0.064	0.003	mg/L	0.0600		107	79.7-115			

LCS Dup (0041506-BSD1)

Prepared: 04/15/20 Analyzed: 04/17/20

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Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041506 - Volatiles (Continued)

LCS Dup (0041506-BSD1) (Continued)

Prepared: 04/15/20 Analyzed: 04/17/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/L	0.0500		102	58.2-133			
Benzene	0.021	0.001	mg/L	0.0200		103	84.9-114	1.20	3.95	
Ethylbenzene	0.022	0.001	mg/L	0.0200		108	76.2-120	1.15	6.85	
Toluene	0.021	0.001	mg/L	0.0200		103	76.9-116	1.22	4.44	
Total Xylenes	0.064	0.003	mg/L	0.0600		106	79.7-115	1.05	4.01	

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041510 - General Prep - Organics

Blank (0041510-BLK1)

Prepared & Analyzed: 04/15/20

Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.6	42.2-156			
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.7	44.3-144			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							

LCS (0041510-BS1)

Prepared & Analyzed: 04/15/20

Surrogate: 1-Chlorooctadecane	54.1		mg/kg	50.0		108	42.2-156			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	44.3-144			
DRO >C10-C28	184	10.0	mg/kg	200		92.2	80-132			
GRO C6-C10	193	10.0	mg/kg	200		96.7	78.8-127			
Total TPH C6-C28	378	10.0	mg/kg	400		94.5	81.3-128			

LCS Dup (0041510-BSD1)

Prepared & Analyzed: 04/15/20

Surrogate: 1-Chlorooctadecane	50.9		mg/kg	50.0		102	42.2-156			
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	44.3-144			
DRO >C10-C28	182	10.0	mg/kg	200		90.8	80-132	1.56	17.1	
GRO C6-C10	191	10.0	mg/kg	200		95.7	78.8-127	1.11	15.1	
Total TPH C6-C28	373	10.0	mg/kg	400		93.2	81.3-128	1.33	15	

Batch 0041708 - General Prep - Organics

Blank (0041708-BLK1)

Prepared: 04/17/20 Analyzed: 04/21/20

Surrogate: 1-Chlorooctadecane	5.15		mg/L	5.00		103	46.4-149			
Surrogate: 1-Chlorooctane	4.40		mg/L	5.00		88.1	34.5-148			
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
GRO C6-C10	ND	1.00	mg/L							

LCS (0041708-BS1)

Prepared: 04/17/20 Analyzed: 04/21/20

Surrogate: 1-Chlorooctadecane	5.94		mg/L	5.00		119	46.4-149			
Surrogate: 1-Chlorooctane	5.31		mg/L	5.00		106	34.5-148			
DRO >C10-C28	50.8	1.00	mg/L	50.0		102	81.3-121			
GRO C6-C10	49.5	1.00	mg/L	50.0		99.0	73.2-116			

LCS Dup (0041708-BSD1)

Prepared: 04/17/20 Analyzed: 04/21/20

Surrogate: 1-Chlorooctadecane	5.79		mg/L	5.00		116	46.4-149			
Surrogate: 1-Chlorooctane	5.26		mg/L	5.00		105	34.5-148			

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Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

**Petroleum Hydrocarbons by GC FID - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041708 - General Prep - Organics (Continued)

LCS Dup (0041708-BSD1) (Continued)

Prepared: 04/17/20 Analyzed: 04/21/20

DRO >C10-C28	50.4	1.00	mg/L	50.0		101	81.3-121	0.864	9.19	
GRO C6-C10	49.3	1.00	mg/L	50.0		98.6	73.2-116	0.445	4.68	

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Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

Polynuclear Aromatic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041413 - SW846-3510

Blank (0041413-BLK1)

Prepared: 04/14/20 Analyzed: 04/17/20

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.79		mg/kg	2.00		89.4	19.4-118			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.58		mg/kg	2.00		79.0	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	1.84		mg/kg	2.00		92.0	20.1-127			

LCS (0041413-BS1)

Prepared: 04/14/20 Analyzed: 04/17/20

1-Methylnaphthalene	0.368	0.040	mg/kg	0.400		92.1	41.5-115			
Surrogate: 2-Fluorobiphenyl	1.68		mg/kg	2.00		84.0	19.4-118			
2-Methylnaphthalene	0.358	0.040	mg/kg	0.400		89.6	41.3-115			
Acenaphthene	0.339	0.040	mg/kg	0.400		84.8	40.8-115			
Acenaphthylene	0.332	0.040	mg/kg	0.400		82.9	39.6-115			
Anthracene	0.342	0.040	mg/kg	0.400		85.5	41.6-116			
Benzo[a]anthracene	0.374	0.040	mg/kg	0.400		93.4	38.1-120			
Benzo[a]pyrene	0.370	0.040	mg/kg	0.400		92.4	43.2-122			
Benzo[b]fluoranthene	0.387	0.040	mg/kg	0.400		96.7	36-129			
Benzo[g,h,i]perylene	0.309	0.040	mg/kg	0.400		77.2	29.6-131			
Benzo[k]fluoranthene	0.378	0.040	mg/kg	0.400		94.4	40.9-123			
Carbazole	0.333	0.040	mg/kg	0.400		83.3	41.3-117			
Chrysene	0.368	0.040	mg/kg	0.400		92.0	39.4-118			
Dibenz[a,h]anthracene	0.359	0.040	mg/kg	0.400		89.8	37-123			
Fluoranthene	0.365	0.040	mg/kg	0.400		91.3	42.5-116			

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Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve MoskalReported:
04/21/20 16:17Polynuclear Aromatic Compounds by GC/MS - Quality Control
(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0041413 - SW846-3510 (Continued)

LCS (0041413-BS1) (Continued)

Prepared: 04/14/20 Analyzed: 04/17/20

Fluorene	0.346	0.040	mg/kg	0.400		86.5	40.8-115			
Indeno[1,2,3-cd]pyrene	0.353	0.040	mg/kg	0.400		88.2	40.5-121			
Naphthalene	0.358	0.040	mg/kg	0.400		89.6	37.2-118			
Surrogate: Nitrobenzene-d5	1.55		mg/kg	2.00		77.4	11.5-118			
Phenanthrene	0.350	0.040	mg/kg	0.400		87.4	41.6-117			
Pyrene	0.320	0.040	mg/kg	0.400		80.1	38.2-121			
Surrogate: Terphenyl-d14	1.69		mg/kg	2.00		84.6	20.1-127			

LCS Dup (0041413-BS1)

Prepared: 04/14/20 Analyzed: 04/17/20

1-Methylnaphthalene	0.376	0.040	mg/kg	0.400		94.1	41.5-115	2.08	5.67	
Surrogate: 2-Fluorobiphenyl	1.67		mg/kg	2.00		83.6	19.4-118			
2-Methylnaphthalene	0.361	0.040	mg/kg	0.400		90.2	41.3-115	0.734	5.43	
Acenaphthene	0.344	0.040	mg/kg	0.400		86.1	40.8-115	1.52	5.45	
Acenaphthylene	0.330	0.040	mg/kg	0.400		82.6	39.6-115	0.320	4.49	
Anthracene	0.346	0.040	mg/kg	0.400		86.5	41.6-116	1.08	3.74	
Benzo[a]anthracene	0.374	0.040	mg/kg	0.400		93.4	38.1-120	0.0107	3.05	
Benzo[a]pyrene	0.374	0.040	mg/kg	0.400		93.6	43.2-122	1.26	3.42	
Benzo[b]fluoranthene	0.393	0.040	mg/kg	0.400		98.3	36-129	1.61	32.9	
Benzo[g,h,i]perylene	0.295	0.040	mg/kg	0.400		73.7	29.6-131	4.62	6.1	
Benzo[k]fluoranthene	0.404	0.040	mg/kg	0.400		101	40.9-123	6.71	6.97	
Carbazole	0.335	0.040	mg/kg	0.400		83.7	41.3-117	0.449	5.33	
Chrysene	0.375	0.040	mg/kg	0.400		93.7	39.4-118	1.87	2.77	
Dibenz[a,h]anthracene	0.349	0.040	mg/kg	0.400		87.2	37-123	3.02	5.52	
Fluoranthene	0.370	0.040	mg/kg	0.400		92.5	42.5-116	1.33	6.41	
Fluorene	0.345	0.040	mg/kg	0.400		86.3	40.8-115	0.275	5.01	
Indeno[1,2,3-cd]pyrene	0.345	0.040	mg/kg	0.400		86.3	40.5-121	2.16	4.92	
Naphthalene	0.356	0.040	mg/kg	0.400		89.0	37.2-118	0.689	4.51	
Surrogate: Nitrobenzene-d5	1.52		mg/kg	2.00		76.0	11.5-118			
Phenanthrene	0.357	0.040	mg/kg	0.400		89.3	41.6-117	2.05	4.53	
Pyrene	0.333	0.040	mg/kg	0.400		83.4	38.2-121	3.98	8.61	
Surrogate: Terphenyl-d14	1.81		mg/kg	2.00		90.6	20.1-127			

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Debbie Zufelt, Reports Manager

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BP America
1199 Main Ave Suite 101
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH
Project Name / Number: Tiffany Gathering
Project Manager: Steve Moskal

Reported:
04/21/20 16:17

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BP America Production Co.

Project Manager: Steve Moskal

Address: 1199 Main Ave Suite 101

City: Durango

State: CO Zip: 81301

Phone #: (505) 330 9179

Email: steven.moskal@bpx.com

Additional Report To:

Project Name: Tiffany Gathering

Project Number:

Sampler Name (Print): Emma Miller

FOR LAB USE ONLY

Lab I.D. Sample Name or Location

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)						# of containers						ANALYSIS REQUEST					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:						
2004-060-01	SS01	4/8/20	1650					X		3						X					
-02	SS02 +		1710					X		3						X					
-03	SS03		1750					X		3						X					
-04	SS04		1635					X		3						X					
-05	WS01		1630	X						1						X					
-06	WS02		1720	X						5						X					
-07	WS03		1730	X						1						X					

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Relinquished By:

[Signature]

Relinquished By:

[Signature]

Relinquished By:

[Signature]

Delivered By: (Circle One)

Sampler UPS - FedEx - Kangaroo - Other:

ADDITIONAL REMARKS:

Report to State? (Circle)

Yes

No

BTEX & TPH
* Not Preserved

+ Organics will not be analyzed
for HSC02 - jars are missing
at Lab. dg 04-15-20

1500 H01
on ice

Temperature at receipt:

5.6/5.7°C

CHECKED BY:

EH

* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.