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21 July 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 06/29/20 16:25. This data replaces the previous report (See case narrative). 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'.

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.



BP America  
1199 Main Ave Suite 101  
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH  
Project Name / Number: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
WS01	2006214-01	Water	06/29/20 15:20	06/29/20 16:25	
SS01	2006214-02	Solid	06/29/20 15:10	06/29/20 16:25	
SS02	2006214-03	Solid	06/29/20 15:25	06/29/20 16:25	
SS03	2006214-04	Solid	06/29/20 14:45	06/29/20 16:25	

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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: State CB #1 Project Manager: Steve Moskal	<b>Reported:</b> 07/21/20 12:02
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GAL originally ran and reported Organics on sample SS03 (2006-214-04), which was supposed to be on hold instead of sample SS02 (2006-214-03).Organics for SS02 was added and is reported in the following report. This RE report is revised and replaces the original report dated 07/09/20.

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**WS01**

**2006214-01 (Surface Water)**

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

Alkalinity, Bicarbonate as CaCO3*	4400	10.0	7.16	mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	900	10.0		mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<10.0	10.0		mg/L	10	07/08/20 13:55	2320 B		VJW
Alkalinity, Total as CaCO3*	5300	10.0	7.16	mg/L	10	07/08/20 13:55	2320 B		VJW
Chloride*	3100	250	22.1	mg/L	250	07/07/20 01:20	EPA300.0		AES
Conductivity*	17300	5.00		umho/cm @ 25.0°C	1	06/30/20 13:45	2510 B		VJW
pH*	8.49			pH Units	1	06/30/20 13:45	EPA150.1		VJW
Resistivity	57.8			ohm/cm	1	06/30/20 13:45	2510 B		VJW
Total Dissolved Solids*	10500	20.0		mg/L	2	07/01/20 11:30	EPA160.1		JDA
Specific Gravity	1.010	0.8000		No Unit	1	07/02/20 11:35	ASTM D1429-03		VJW
Sulfate*	<250	250	38.1	mg/L	250	07/07/20 01:20	EPA300.0		AES

**Total Recoverable Metals by ICP (E200.7)**

Iron*	12.7	1.25	0.407	mg/L	25	07/07/20 15:35	EPA200.7		AES
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**Dissolved Metals by ICP**

Barium*	8.99	0.500	0.039	mg/L	25	07/08/20 12:26	EPA200.7		AES
Calcium*	20.7	2.50	0.415	mg/L	25	07/08/20 12:26	EPA200.7		AES
Hardness as CaCO3	121	16.5	3.45	mg/L	25	07/08/20 12:26	2340 B		AES
Iron*	<1.25	1.25	0.460	mg/L	25	07/08/20 12:26	EPA200.7		AES
Magnesium*	16.7	2.50	0.587	mg/L	25	07/08/20 12:26	EPA200.7		AES
Manganese*	<0.500	0.500	0.039	mg/L	25	07/08/20 12:26	EPA200.7		AES
Potassium*	<25.0	25.0	3.25	mg/L	25	07/08/20 12:25	EPA200.7		AES
Sodium*	4160	25.0	2.51	mg/L	25	07/08/20 12:25	EPA200.7		AES
Strontium*	10.7	2.50	0.104	mg/L	25	07/08/20 12:25	EPA200.7		AES

**Subcontracted -- Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

									PH
Benzene*	<0.001	0.001	0.00006	mg/L	1	07/07/20 19:18	8021B		MS
Toluene*	<0.001	0.001	0.0003	mg/L	1	07/07/20 19:18	8021B		MS
Ethylbenzene*	<0.001	0.001	0.0001	mg/L	1	07/07/20 19:18	8021B		MS
Total Xylenes*	<0.003	0.003	0.0003	mg/L	1	07/07/20 19:18	8021B		MS
Total BTEX	<0.006	0.006	0.0005	mg/L	1	07/07/20 19:18	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 58.2-133 07/07/20 19:18 8021B MS

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Debbie Zufelt, Reports Manager

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**WS01**

**2006214-01 (Surface Water)**

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

**Petroleum Hydrocarbons by GC FID**

									<b>PH</b>
<b>GRO C6-C10*</b>	<1.00	1.00	0.0744	mg/L	0.1	07/07/20 21:24	8015B		MS
<b>DRO &gt;C10-C28*</b>	<1.00	1.00	0.390	mg/L	0.1	07/07/20 21:24	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<1.00	1.00	0.390	mg/L	0.1	07/07/20 21:24	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			86.5 %	34.5-148		07/07/20 21:24	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			92.2 %	46.4-149		07/07/20 21:24	8015B		MS
<b>Cation/Anion Balance</b>	<b>-2.51</b>								

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SS01

2006214-02 (Soil)

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

% Dry Solids	85.3			%	1	07/06/20 14:05	EPA160.3/1684		VJW
<b>Saturated Paste Extraction</b>									
Calcium	143	0.500	0.083	mg/L	5	07/07/20 12:43	EPA200.7		AES
Conductivity	4340			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	19.1	0.500	0.117	mg/L	5	07/07/20 12:43	EPA200.7		AES
pH	7.93			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	13.8			No Unit	1	07/07/20 12:43	Calculation		AES
Sodium	660	5.00	0.503	mg/L	5	07/07/20 12:43	EPA200.7		AES

**Total Metals by ICP**

Barium	470	5.00	0.318	mg/kg dry	100	07/07/20 13:35	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:35	6010B		AES
Chromium	12.3	5.00	0.416	mg/kg dry	100	07/07/20 13:35	6010B		AES
Copper	14.4	5.00	1.40	mg/kg dry	100	07/07/20 13:35	6010B		AES
Lead	11.9	10.0	0.661	mg/kg dry	100	07/07/20 13:35	6010B		AES
Nickel	9.98	5.00	0.507	mg/kg dry	100	07/07/20 13:35	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:34	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:35	6010B		AES
Zinc	46.9	10.0	2.60	mg/kg dry	100	07/07/20 13:35	6010B		AES

**Total Metals by ICPMS**

Arsenic	6.26	1.00	0.0807	mg/kg dry	1000	07/07/20 14:06	6020A		AES
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**Total Mercury by CVAA**

Mercury	<0.0469	0.0469	0.0027	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:09	EPA200.7		AES
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Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

SS01

2006214-02 (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	07/02/20 05:18	8021B		ms
Toluene*	<0.050	0.050	0.004	mg/kg	50	07/02/20 05:18	8021B		ms
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	07/02/20 05:18	8021B		ms
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	07/02/20 05:18	8021B		ms
Total BTEX	<0.300	0.300	0.018	mg/kg	50	07/02/20 05:18	8021B		ms

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129 07/02/20 05:18 8021B ms

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	07/01/20 22:53	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	07/01/20 22:53	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	07/01/20 22:53	8015B		MS

Surrogate: 1-Chlorooctane 82.5 % 44.3-144 07/01/20 22:53 8015B MS

Surrogate: 1-Chlorooctadecane 88.8 % 42.2-156 07/01/20 22:53 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
2-Methylnaphthalene*	0.011	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C	J	MS
1-Methylnaphthalene	0.008	0.040	0.006	mg/kg	40	07/07/20 18:31	8270C	J	MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Phenanthrene*	<0.005	0.040	0.005	mg/kg	40	07/07/20 18:31	8270C		MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Fluoranthene*	0.004	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C	J	MS
Pyrene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[a]anthracene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Chrysene*	<0.0008	0.040	0.0008	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[b]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[k]fluoranthene*	<0.002	0.040	0.002	mg/kg	40	07/07/20 18:31	8270C		MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	07/07/20 18:31	8270C		MS
Dibenz[a,h]anthracene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS

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SS01

2006214-02 (Soil)

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

Polynuclear Aromatic Compounds by GC/MS

Benzo[g,h,i]perylene*	<0.004	0.040	0.004	mg/kg	40	07/07/20 18:31	8270C		MS
Surrogate: Nitrobenzene-d5			72.5 %	11.5-118		07/07/20 18:31	8270C		MS
Surrogate: 2-Fluorobiphenyl			79.7 %	19.4-118		07/07/20 18:31	8270C		MS
Surrogate: Terphenyl-d14			86.0 %	20.1-127		07/07/20 18:31	8270C		MS

Cation/Anion Balance 100.

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SS02

2006214-03 (Soil)

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

% Dry Solids	87.6			%	1	07/06/20 14:05	EPA160.3/1684		VJW
<b>Saturated Paste Extraction</b>									
Calcium	53.0	0.500	0.083	mg/L	5	07/07/20 12:45	EPA200.7		AES
Conductivity	4640			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	10.0	0.500	0.117	mg/L	5	07/07/20 12:45	EPA200.7		AES
pH	8.35			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	28.2			No Unit	1	07/07/20 12:45	Calculation		AES
Sodium	854	5.00	0.503	mg/L	5	07/07/20 12:45	EPA200.7		AES

**Total Metals by ICP**

Barium	598	5.00	0.318	mg/kg dry	100	07/07/20 13:47	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:47	6010B		AES
Chromium	13.4	5.00	0.416	mg/kg dry	100	07/07/20 13:47	6010B		AES
Copper	18.5	5.00	1.40	mg/kg dry	100	07/07/20 13:47	6010B		AES
Lead	15.0	10.0	0.661	mg/kg dry	100	07/07/20 13:47	6010B		AES
Nickel	9.95	5.00	0.507	mg/kg dry	100	07/07/20 13:47	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:47	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:47	6010B		AES
Zinc	42.1	10.0	2.60	mg/kg dry	100	07/07/20 13:47	6010B		AES

**Total Metals by ICPMS**

Arsenic	3.94	1.00	0.0807	mg/kg dry	1000	07/07/20 14:10	6020A		AES
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**Total Mercury by CVAA**

Mercury	<0.0457	0.0457	0.0026	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:11	EPA200.7		AES
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SS02

2006214-03 (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	07/10/20 09:54	8021B		MS
Toluene*	<0.050	0.050	0.004	mg/kg	50	07/10/20 09:54	8021B		MS
Ethylbenzene*	<0.050	0.050	0.006	mg/kg	50	07/10/20 09:54	8021B		MS
Total Xylenes*	<0.150	0.150	0.013	mg/kg	50	07/10/20 09:54	8021B		MS
Total BTEX	<0.300	0.300	0.018	mg/kg	50	07/10/20 09:54	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129 07/10/20 09:54 8021B MS

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	1.97	mg/kg	1	07/10/20 11:55	8015B		MS
DRO >C10-C28*	<10.0	10.0	2.97	mg/kg	1	07/10/20 11:55	8015B		MS
EXT DRO >C28-C36	<10.0	10.0	2.97	mg/kg	1	07/10/20 11:55	8015B		MS

Surrogate: 1-Chlorooctane 88.4 % 44.3-144 07/10/20 11:55 8015B MS

Surrogate: 1-Chlorooctadecane 92.4 % 42.2-156 07/10/20 11:55 8015B MS

Polynuclear Aromatic Compounds by GC/MS

Naphthalene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
2-Methylnaphthalene*	0.003	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
1-Methylnaphthalene	<0.006	0.040	0.006	mg/kg	40	07/15/20 20:35	8270C		MS
Acenaphthylene*	<0.002	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C		MS
Acenaphthene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Fluorene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Phenanthrene*	0.012	0.040	0.005	mg/kg	40	07/15/20 20:35	8270C	J	MS
Anthracene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
Carbazole*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C	QR-03	MS
Fluoranthene*	0.039	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Pyrene*	0.040	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS
Benzo[a]anthracene*	0.031	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Chrysene*	0.035	0.040	0.0008	mg/kg	40	07/15/20 20:35	8270C	J	MS
Benzo[b]fluoranthene*	0.031	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J	MS
Benzo[k]fluoranthene*	0.027	0.040	0.002	mg/kg	40	07/15/20 20:35	8270C	J, QM-07, QR-03	MS
Benzo[a]pyrene*	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C	QR-03	MS
Indeno[1,2,3-cd]pyrene*	<0.003	0.040	0.003	mg/kg	40	07/15/20 20:35	8270C		MS

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**SS02**

**2006214-03 (Soil)**

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

**Polynuclear Aromatic Compounds by GC/MS**

<b>Dibenz[a,h]anthracene*</b>	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
<b>Benzo[g,h,i]perylene*</b>	<0.004	0.040	0.004	mg/kg	40	07/15/20 20:35	8270C		MS
<i>Surrogate: Nitrobenzene-d5</i>			61.0 %	11.5-118		07/15/20 20:35	8270C		MS
<i>Surrogate: 2-Fluorobiphenyl</i>			68.9 %	19.4-118		07/15/20 20:35	8270C		MS
<i>Surrogate: Terphenyl-d14</i>			87.0 %	20.1-127		07/15/20 20:35	8270C		MS

**Cation/Anion Balance 100.**

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SS03

2006214-04 (Soil)

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

% Dry Solids	87.1			%	1	07/06/20 14:05	EPA160.3/1684		VJW
<b>Saturated Paste Extraction</b>									
Calcium	120	1.00	0.166	mg/L	10	07/07/20 12:48	EPA200.7		AES
Conductivity	8620			umho/cm @ 25.0°C	1	07/06/20 16:25	ASA#9 10-3.3		VJW
Magnesium	48.2	1.00	0.235	mg/L	10	07/07/20 12:48	EPA200.7		AES
pH	8.71			pH Units	1	07/06/20 12:45	ASA#9 12-2.6		VJW
SAR	43.9			No Unit	1	07/07/20 12:48	Calculation		AES
Sodium	2250	10.0	1.01	mg/L	10	07/07/20 12:48	EPA200.7		AES

**Total Metals by ICP**

Barium	251	5.00	0.318	mg/kg dry	100	07/07/20 13:51	6010B		AES
Cadmium	<5.00	5.00	0.310	mg/kg dry	100	07/07/20 13:51	6010B		AES
Chromium	8.74	5.00	0.416	mg/kg dry	100	07/07/20 13:51	6010B		AES
Copper	13.6	5.00	1.40	mg/kg dry	100	07/07/20 13:51	6010B		AES
Lead	12.2	10.0	0.661	mg/kg dry	100	07/07/20 13:51	6010B		AES
Nickel	9.60	5.00	0.507	mg/kg dry	100	07/07/20 13:51	6010B		AES
Selenium	<20.0	20.0	7.60	mg/kg dry	100	07/07/20 13:51	6010B		AES
Silver	<1.00	1.00	0.390	mg/kg dry	100	07/07/20 13:51	6010B		AES
Zinc	57.8	10.0	2.60	mg/kg dry	100	07/07/20 13:51	6010B		AES

**Total Metals by ICPMS**

Arsenic	2.42	1.00	0.0807	mg/kg dry	1000	07/07/20 14:20	6020A		AES
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**Total Mercury by CVAA**

Mercury	<0.0459	0.0459	0.0027	mg/kg dry	200	07/07/20 14:44	EPA7471		LLG
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**Hot Water Extractable**

Boron	<1.20	1.20	0.059	mg/L	4	07/07/20 13:15	EPA200.7		AES
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Cation/Anion Balance	100.
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B201175 - General Prep - Wet Chem</b>										
<b>Blank (B201175-BLK1)</b> Prepared & Analyzed: 06/30/20										
Total Dissolved Solids	ND	10.0	mg/L							
<b>Duplicate (B201175-DUP1)</b> Source: 2006215-01 Prepared & Analyzed: 06/30/20										
Total Dissolved Solids	995	10.0	mg/L		1000			1.00	20	
<b>Reference (B201175-SRM1)</b> Prepared & Analyzed: 06/30/20										
Total Dissolved Solids	525	10.0	mg/L	570		92.1	85-115			
<b>Batch B201183 - General Prep - Wet Chem</b>										
<b>Duplicate (B201183-DUP2)</b> Source: 2006217-01 Prepared & Analyzed: 06/30/20										
Conductivity	8400	5.00	umho/cm @ 25.0°C		8360			0.477	20	
<b>Reference (B201183-SRM1)</b> Prepared & Analyzed: 06/30/20										
Conductivity	499	5.00	umho/cm @ 25.0°C	488		102	90-110			
<b>Batch B201186 - General Prep - Wet Chem</b>										
<b>Blank (B201186-BLK1)</b> Prepared: 07/01/20 Analyzed: 07/06/20										
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							
<b>LCS (B201186-BS1)</b> Prepared: 07/01/20 Analyzed: 07/06/20										
Chloride	24.5	1.00	mg/L	25.0		98.2	90-110			
Sulfate	25.0	1.00	mg/L	25.0		100	90-110			
<b>LCS Dup (B201186-BSD1)</b> Prepared: 07/01/20 Analyzed: 07/06/20										
Chloride	25.0	1.00	mg/L	25.0		100	90-110	2.02	20	
Sulfate	25.0	1.00	mg/L	25.0		100	90-110	0.0679	20	
<b>Batch B201201 - General Prep - Wet Chem</b>										
<b>Duplicate (B201201-DUP1)</b> Source: 2006214-01 Prepared & Analyzed: 07/02/20										
Specific Gravity	1.010	0.8000	No Unit		1.010			0.00	20	
<b>Batch B201204 - General Prep - Wet Chem</b>										
<b>Blank (B201204-BLK1)</b> Prepared: 07/02/20 Analyzed: 07/08/20										
Alkalinity, Total as CaCO3	ND	10.0	mg/L							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B201204 - General Prep - Wet Chem (Continued)**

**LCS (B201204-BS1)**

Prepared: 07/02/20 Analyzed: 07/08/20

Alkalinity, Total as CaCO3	100	10.0	mg/L	100	100	85-115				
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**LCS Dup (B201204-BSD1)**

Prepared: 07/02/20 Analyzed: 07/08/20

Alkalinity, Total as CaCO3	101	10.0	mg/L	100	101	85-115	0.995	20		
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**Batch B201205 - General Prep - Wet Chem**

**Duplicate (B201205-DUP2)**

Source: 2006217-01 Prepared & Analyzed: 06/30/20

pH	8.04		pH Units	8.00			0.499	20		
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**Reference (B201205-SRM1)**

Prepared & Analyzed: 06/30/20

pH	7.04		pH Units	7.00	101	98.5-101.4				
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**Batch B201216 - General Prep - Wet Chem**

**Duplicate (B201216-DUP1)**

Source: 2007016-04 Prepared & Analyzed: 07/06/20

% Dry Solids	85.8		%	85.3			0.579	20		
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**Saturated Paste Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B201211 - Paste Extract**

**Blank (B201211-BLK1)**

Prepared: 07/02/20 Analyzed: 07/07/20

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

**Duplicate (B201211-DUP1)**

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/07/20

Calcium	18.8	0.100	mg/L		19.0		0.936	20		
Magnesium	3.72	0.100	mg/L		3.72		0.212	20		
SAR	6.18		No Unit		6.04		2.29	20		
Sodium	112	1.00	mg/L		110		1.78	20		

**Batch B201212 - Paste Extract**

**Duplicate (B201212-DUP1)**

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/06/20

pH	7.69		pH Units		7.59		1.31	20		
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**Batch B201213 - Paste Extract**

**Duplicate (B201213-DUP1)**

Source: 2007016-01 Prepared: 07/02/20 Analyzed: 07/06/20

Conductivity	594		umho/cm @ 25.0°C		572		3.77	20		
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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 B201237 - EPA 3050**

**Blank (B201237-BLK1)**

Prepared & Analyzed: 07/07/20

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 (B201237-BS1)**

Prepared & Analyzed: 07/07/20

Barium	185	5.00	mg/kg dry	200		92.5	80-120			
Cadmium	172	5.00	mg/kg dry	200		86.1	80-120			
Chromium	186	5.00	mg/kg dry	200		92.8	80-120			
Copper	389	5.00	mg/kg dry	400		97.3	80-120			
Lead	179	10.0	mg/kg dry	200		89.6	80-120			
Nickel	181	5.00	mg/kg dry	200		90.3	80-120			
Selenium	757	20.0	mg/kg dry	800		94.6	80-120			
Silver	9.27	1.00	mg/kg dry	10.0		92.7	80-120			
Zinc	171	10.0	mg/kg dry	200		85.6	80-120			

**LCS Dup (B201237-BSD1)**

Prepared & Analyzed: 07/07/20

Barium	186	5.00	mg/kg dry	200		92.9	80-120	0.382	20	
Cadmium	173	5.00	mg/kg dry	200		86.5	80-120	0.450	20	
Chromium	186	5.00	mg/kg dry	200		93.1	80-120	0.323	20	
Copper	388	5.00	mg/kg dry	400		97.1	80-120	0.224	20	
Lead	178	10.0	mg/kg dry	200		88.8	80-120	0.981	20	
Nickel	179	5.00	mg/kg dry	200		89.6	80-120	0.831	20	
Selenium	742	20.0	mg/kg dry	800		92.7	80-120	2.07	20	
Silver	9.18	1.00	mg/kg dry	10.0		91.8	80-120	0.915	20	
Zinc	169	10.0	mg/kg dry	200		84.6	80-120	1.07	20	

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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 B201226 - Total Rec. 200.7/200.8/200.2**

**Blank (B201226-BLK1)**

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	ND	0.050	mg/L							
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**LCS (B201226-BS1)**

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	3.83	0.050	mg/L	4.00		95.9	85-115			
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**LCS Dup (B201226-BSD1)**

Prepared: 07/06/20 Analyzed: 07/07/20

Iron	3.84	0.050	mg/L	4.00		96.0	85-115	0.175	20	
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**Dissolved Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch B201230 - Diss. 200.7/200.8**

**Blank (B201230-BLK1)**

Prepared: 07/06/20 Analyzed: 07/08/20

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 (B201230-BS1)**

Prepared: 07/06/20 Analyzed: 07/08/20

Barium	2.42	0.020	mg/L	2.50	96.7	85-115			
Calcium	4.92	0.100	mg/L	5.00	98.3	85-115			
Iron	4.62	0.050	mg/L	5.00	92.4	85-115			
Magnesium	25.3	0.100	mg/L	25.0	101	85-115			
Manganese	2.41	0.020	mg/L	2.50	96.5	85-115			
Potassium	10.2	1.00	mg/L	10.0	102	85-115			
Sodium	4.14	1.00	mg/L	4.05	102	85-115			
Strontium	4.97	0.100	mg/L	5.00	99.3	85-115			

**LCS Dup (B201230-BSD1)**

Prepared: 07/06/20 Analyzed: 07/08/20

Barium	2.44	0.020	mg/L	2.50	97.8	85-115	1.09	20	
Calcium	4.87	0.100	mg/L	5.00	97.3	85-115	1.00	20	
Iron	4.57	0.050	mg/L	5.00	91.5	85-115	1.05	20	
Magnesium	25.1	0.100	mg/L	25.0	101	85-115	0.728	20	
Manganese	2.40	0.020	mg/L	2.50	96.1	85-115	0.423	20	
Potassium	10.0	1.00	mg/L	10.0	100	85-115	1.44	20	
Sodium	4.07	1.00	mg/L	4.05	100	85-115	1.85	20	
Strontium	4.89	0.100	mg/L	5.00	97.8	85-115	1.57	20	

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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 B201238 - EPA 3050M**

<b>Blank (B201238-BLK1)</b>		Prepared & Analyzed: 07/07/20								
Arsenic	ND	0.100	mg/kg dry							
<b>LCS (B201238-BS1)</b>		Prepared & Analyzed: 07/07/20								
Arsenic	4.76	0.100	mg/kg dry	5.00		95.2	80-120			
<b>LCS Dup (B201238-BSD1)</b>		Prepared & Analyzed: 07/07/20								
Arsenic	4.32	0.100	mg/kg dry	5.00		86.4	80-120	9.73	20	

**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 B201214 - EPA 7471**

<b>Blank (B201214-BLK1)</b>		Prepared: 07/06/20 Analyzed: 07/07/20								
Mercury	ND	0.0002	mg/kg wet							
<b>LCS (B201214-BS1)</b>		Prepared: 07/06/20 Analyzed: 07/07/20								
Mercury	0.0045	0.0002	mg/kg wet	0.00500		90.6	85-115			
<b>LCS Dup (B201214-BSD1)</b>		Prepared: 07/06/20 Analyzed: 07/07/20								
Mercury	0.0054	0.0002	mg/kg wet	0.00500		107	85-115	17.1	20	

**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 B201215 - Hot Water Soluble Metals Extract**

<b>Blank (B201215-BLK1)</b>		Prepared: 07/06/20 Analyzed: 07/07/20								
Boron	ND	1.20	mg/L							
<b>Duplicate (B201215-DUP1)</b>		Source: 2007016-04 Prepared: 07/06/20 Analyzed: 07/07/20								
Boron	0.847	1.20	mg/L		0.928			9.18	200	

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BP America  
1199 Main Ave Suite 101  
Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH  
Project Name / Number: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
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**Batch 0070110 - Volatiles**

**Blank (0070110-BLK1)**

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	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 (0070110-BS1)**

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	73.3-129		
Benzene	1.89	0.050	mg/kg	2.00		94.6	72.2-131		
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	68.9-126		
Toluene	2.02	0.050	mg/kg	2.00		101	71.7-126		
Total Xylenes	6.03	0.150	mg/kg	6.00		101	71.4-125		

**LCS Dup (0070110-BSD1)**

Prepared: 07/01/20 Analyzed: 07/02/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	73.3-129		
Benzene	1.96	0.050	mg/kg	2.00		97.9	72.2-131	3.46	14.6
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	68.9-126	2.72	18.9
Toluene	2.09	0.050	mg/kg	2.00		105	71.7-126	3.49	17.4
Total Xylenes	6.15	0.150	mg/kg	6.00		102	71.4-125	1.89	18.5

**Batch 0070608 - Volatiles**

**Blank (0070608-BLK1)**

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0465		mg/L	0.0500		93.1	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 (0070608-BS1)**

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/L	0.0500		96.1	58.2-133		
Benzene	0.020	0.001	mg/L	0.0200		102	84.9-114		
Ethylbenzene	0.020	0.001	mg/L	0.0200		101	76.2-120		
Toluene	0.020	0.001	mg/L	0.0200		99.6	76.9-116		
Total Xylenes	0.059	0.003	mg/L	0.0600		98.2	79.7-115		

**LCS Dup (0070608-BSD1)**

Prepared: 07/06/20 Analyzed: 07/07/20

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: API - Classic, Table 910, BTEX/TPH Project Name / Number: State CB #1 Project Manager: Steve Moskal	Reported: 07/21/20 12:02
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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	RPD Limits	RPD RPD	Notes
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**Batch 0070608 - Volatiles (Continued)**

**LCS Dup (0070608-BSD1) (Continued)**

Prepared: 07/06/20 Analyzed: 07/07/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/L	0.0500		95.9	58.2-133		
Benzene	0.020	0.001	mg/L	0.0200		102	84.9-114	0.00979	3.95
Ethylbenzene	0.020	0.001	mg/L	0.0200		100	76.2-120	0.777	6.85
Toluene	0.020	0.001	mg/L	0.0200		99.3	76.9-116	0.287	4.44
Total Xylenes	0.058	0.003	mg/L	0.0600		97.5	79.7-115	0.700	4.01

**Batch 0070903 - Volatiles**

**Blank (0070903-BLK1)**

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		94.4	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 (0070903-BS1)**

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.9	73.3-129		
Benzene	1.85	0.050	mg/kg	2.00		92.6	72.2-131		
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	68.9-126		
Toluene	1.86	0.050	mg/kg	2.00		93.1	71.7-126		
Total Xylenes	5.38	0.150	mg/kg	6.00		89.7	71.4-125		

**LCS Dup (0070903-BSD1)**

Prepared: 07/09/20 Analyzed: 07/10/20

Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.4	73.3-129		
Benzene	1.94	0.050	mg/kg	2.00		97.0	72.2-131	4.67	14.6
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.3	68.9-126	4.91	18.9
Toluene	1.95	0.050	mg/kg	2.00		97.6	71.7-126	4.79	17.4
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	71.4-125	4.90	18.5

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Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH  
Project Name / Number: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**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 0070109 - General Prep - Organics**

**Blank (0070109-BLK1)**

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	41.6		mg/kg	50.0		83.3	42.2-156			
Surrogate: 1-Chlorooctane	39.9		mg/kg	50.0		79.9	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 (0070109-BS1)**

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.6	42.2-156			
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	44.3-144			
DRO >C10-C28	176	10.0	mg/kg	200		87.9	80-132			
GRO C6-C10	178	10.0	mg/kg	200		89.2	78.8-127			
Total TPH C6-C28	354	10.0	mg/kg	400		88.6	81.3-128			

**LCS Dup (0070109-BSD1)**

Prepared & Analyzed: 07/01/20

Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.8	42.2-156			
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	44.3-144			
DRO >C10-C28	177	10.0	mg/kg	200		88.7	80-132	0.882	17.1	
GRO C6-C10	178	10.0	mg/kg	200		88.9	78.8-127	0.270	15.1	
Total TPH C6-C28	355	10.0	mg/kg	400		88.8	81.3-128	0.304	15	

**Batch 0070708 - General Prep - Organics**

**Blank (0070708-BLK1)**

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.38		mg/L	5.00		87.5	46.4-149			
Surrogate: 1-Chlorooctane	4.32		mg/L	5.00		86.3	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 (0070708-BS1)**

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.77		mg/L	5.00		95.5	46.4-149			
Surrogate: 1-Chlorooctane	4.84		mg/L	5.00		96.8	34.5-148			
DRO >C10-C28	49.7	1.00	mg/L	50.0		99.5	81.3-121			
GRO C6-C10	44.6	1.00	mg/L	50.0		89.2	73.2-116			

**LCS Dup (0070708-BSD1)**

Prepared & Analyzed: 07/07/20

Surrogate: 1-Chlorooctadecane	4.84		mg/L	5.00		96.7	46.4-149			
Surrogate: 1-Chlorooctane	4.90		mg/L	5.00		97.9	34.5-148			

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**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 0070708 - General Prep - Organics (Continued)**

**LCS Dup (0070708-BSD1) (Continued)**

Prepared & Analyzed: 07/07/20

DRO >C10-C28	50.2	1.00	mg/L	50.0		100	81.3-121	0.984	9.19	
GRO C6-C10	44.6	1.00	mg/L	50.0		89.2	73.2-116	0.0471	4.68	

**Batch 0071004 - General Prep - Organics**

**Blank (0071004-BLK1)**

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	42.2		mg/kg	50.0		84.4	42.2-156			
Surrogate: 1-Chlorooctane	41.9		mg/kg	50.0		83.9	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 (0071004-BS1)**

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	45.4		mg/kg	50.0		90.8	42.2-156			
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	44.3-144			
DRO >C10-C28	210	10.0	mg/kg	200		105	80-132			
GRO C6-C10	194	10.0	mg/kg	200		97.2	78.8-127			
Total TPH C6-C28	404	10.0	mg/kg	400		101	81.3-128			

**LCS Dup (0071004-BSD1)**

Prepared & Analyzed: 07/10/20

Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		93.0	42.2-156			
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	44.3-144			
DRO >C10-C28	185	10.0	mg/kg	200		92.7	80-132	12.4	17.1	
GRO C6-C10	196	10.0	mg/kg	200		97.9	78.8-127	0.754	15.1	
Total TPH C6-C28	381	10.0	mg/kg	400		95.3	81.3-128	5.85	15	

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Durango CO, 81303

Project: API - Classic, Table 910, BTEX/TPH  
Project Name / Number: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**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 0070610 - SW846-3510**

**Blank (0070610-BLK1)**

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	1.60		mg/kg	2.00		80.2	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]flouranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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							
<i>Surrogate: Nitrobenzene-d5</i>	1.58		mg/kg	2.00		78.9	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.74		mg/kg	2.00		87.1	20.1-127			

**LCS (0070610-BS1)**

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	0.296	0.040	mg/kg	0.400		74.0	41.5-115			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.62		mg/kg	2.00		80.9	19.4-118			
2-Methylnaphthalene	0.289	0.040	mg/kg	0.400		72.3	41.3-115			
Acenaphthene	0.294	0.040	mg/kg	0.400		73.5	40.8-115			
Acenaphthylene	0.291	0.040	mg/kg	0.400		72.7	39.6-115			
Anthracene	0.289	0.040	mg/kg	0.400		72.1	41.6-116			
Benzo[a]anthracene	0.279	0.040	mg/kg	0.400		69.7	38.1-120			
Benzo[a]pyrene	0.279	0.040	mg/kg	0.400		69.8	43.2-122			
Benzo[b]flouranthene	0.165	0.040	mg/kg	0.400		41.3	36-129			
Benzo[g,h,i]perylene	0.280	0.040	mg/kg	0.400		70.1	29.6-131			
Benzo[k]flouranthene	0.281	0.040	mg/kg	0.400		70.3	40.9-123			
Carbazole	0.291	0.040	mg/kg	0.400		72.6	41.3-117			
Chrysene	0.283	0.040	mg/kg	0.400		70.7	39.4-118			
Dibenz[a,h]anthracene	0.280	0.040	mg/kg	0.400		70.0	37-123			
Fluoranthene	0.296	0.040	mg/kg	0.400		74.0	42.5-116			

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Project: API - Classic, Table 910, BTEX/TPH  
Project Name / Number: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**Polynuclear Aromatic Compounds by GC/MS - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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**Batch 0070610 - SW846-3510 (Continued)**

**LCS (0070610-BS1) (Continued)**

Prepared: 07/06/20 Analyzed: 07/07/20

Fluorene	0.298	0.040	mg/kg	0.400		74.4	40.8-115			
Indeno[1,2,3-cd]pyrene	0.279	0.040	mg/kg	0.400		69.8	40.5-121			
Naphthalene	0.294	0.040	mg/kg	0.400		73.4	37.2-118			
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.58</i>		mg/kg	<i>2.00</i>		<i>78.9</i>	<i>11.5-118</i>			
Phenanthrene	0.294	0.040	mg/kg	0.400		73.4	41.6-117			
Pyrene	0.282	0.040	mg/kg	0.400		70.5	38.2-121			
<i>Surrogate: Terphenyl-d14</i>	<i>1.56</i>		mg/kg	<i>2.00</i>		<i>78.2</i>	<i>20.1-127</i>			

**LCS Dup (0070610-BSD1)**

Prepared: 07/06/20 Analyzed: 07/07/20

1-Methylnaphthalene	0.297	0.040	mg/kg	0.400		74.1	41.5-115	0.196	5.67	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.60</i>		mg/kg	<i>2.00</i>		<i>80.1</i>	<i>19.4-118</i>			
2-Methylnaphthalene	0.294	0.040	mg/kg	0.400		73.5	41.3-115	1.69	5.43	
Acenaphthene	0.292	0.040	mg/kg	0.400		72.9	40.8-115	0.819	5.45	
Acenaphthylene	0.287	0.040	mg/kg	0.400		71.7	39.6-115	1.33	4.49	
Anthracene	0.292	0.040	mg/kg	0.400		72.9	41.6-116	1.05	3.74	
Benzo[a]anthracene	0.281	0.040	mg/kg	0.400		70.3	38.1-120	0.832	3.05	
Benzo[a]pyrene	0.276	0.040	mg/kg	0.400		69.1	43.2-122	1.12	3.42	
Benzo[b]fluoranthene	0.172	0.040	mg/kg	0.400		42.9	36-129	3.91	32.9	
Benzo[g,h,i]perylene	0.275	0.040	mg/kg	0.400		68.8	29.6-131	1.85	6.1	
Benzo[k]fluoranthene	0.280	0.040	mg/kg	0.400		69.9	40.9-123	0.589	6.97	
Carbazole	0.291	0.040	mg/kg	0.400		72.7	41.3-117	0.151	5.33	
Chrysene	0.282	0.040	mg/kg	0.400		70.4	39.4-118	0.429	2.77	
Dibenz[a,h]anthracene	0.274	0.040	mg/kg	0.400		68.4	37-123	2.23	5.52	
Fluoranthene	0.296	0.040	mg/kg	0.400		74.1	42.5-116	0.206	6.41	
Fluorene	0.298	0.040	mg/kg	0.400		74.5	40.8-115	0.188	5.01	
Indeno[1,2,3-cd]pyrene	0.277	0.040	mg/kg	0.400		69.2	40.5-121	0.845	4.92	
Naphthalene	0.295	0.040	mg/kg	0.400		73.8	37.2-118	0.431	4.51	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.58</i>		mg/kg	<i>2.00</i>		<i>79.1</i>	<i>11.5-118</i>			
Phenanthrene	0.291	0.040	mg/kg	0.400		72.8	41.6-117	0.804	4.53	
Pyrene	0.280	0.040	mg/kg	0.400		70.0	38.2-121	0.690	8.61	
<i>Surrogate: Terphenyl-d14</i>	<i>1.56</i>		mg/kg	<i>2.00</i>		<i>78.1</i>	<i>20.1-127</i>			

**Batch 0071306 - SW846-3510**

**Blank (0071306-BLK1)**

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	ND	0.040	mg/kg							
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.68</i>		mg/kg	<i>2.00</i>		<i>84.1</i>	<i>19.4-118</i>			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							

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*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: State CB #1  
Project Manager: Steve Moskal

Reported:  
07/21/20 12:02

**Polynuclear Aromatic Compounds by GC/MS - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0071306 - SW846-3510 (Continued)**

**Blank (0071306-BLK1) (Continued)**

Prepared: 07/13/20 Analyzed: 07/15/20

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							
<i>Surrogate: Nitrobenzene-d5</i>	1.58		mg/kg	2.00		79.2	11.5-118			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
<i>Surrogate: Terphenyl-d14</i>	1.99		mg/kg	2.00		99.5	20.1-127			

**LCS (0071306-BS1)**

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	0.330	0.040	mg/kg	0.400		82.6	41.5-115			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.64		mg/kg	2.00		82.2	19.4-118			
2-Methylnaphthalene	0.327	0.040	mg/kg	0.400		81.8	41.3-115			
Acenaphthene	0.325	0.040	mg/kg	0.400		81.2	40.8-115			
Acenaphthylene	0.329	0.040	mg/kg	0.400		82.4	39.6-115			
Anthracene	0.322	0.040	mg/kg	0.400		80.6	41.6-116			
Benzo[a]anthracene	0.365	0.040	mg/kg	0.400		91.2	38.1-120			
Benzo[a]pyrene	0.335	0.040	mg/kg	0.400		83.8	43.2-122			
Benzo[b]fluoranthene	0.382	0.040	mg/kg	0.400		95.6	36-129			
Benzo[g,h,i]perylene	0.320	0.040	mg/kg	0.400		80.1	29.6-131			
Benzo[k]fluoranthene	0.341	0.040	mg/kg	0.400		85.2	40.9-123			
Carbazole	0.320	0.040	mg/kg	0.400		80.0	41.3-117			
Chrysene	0.366	0.040	mg/kg	0.400		91.5	39.4-118			
Dibenz[a,h]anthracene	0.333	0.040	mg/kg	0.400		83.3	37-123			
Fluoranthene	0.330	0.040	mg/kg	0.400		82.6	42.5-116			
Fluorene	0.338	0.040	mg/kg	0.400		84.5	40.8-115			
Indeno[1,2,3-cd]pyrene	0.331	0.040	mg/kg	0.400		82.8	40.5-121			
Naphthalene	0.332	0.040	mg/kg	0.400		82.9	37.2-118			
<i>Surrogate: Nitrobenzene-d5</i>	1.54		mg/kg	2.00		77.1	11.5-118			

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: API - Classic, Table 910, BTEX/TPH Project Name / Number: State CB #1 Project Manager: Steve Moskal	Reported: 07/21/20 12:02
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**Polynuclear 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 0071306 - SW846-3510 (Continued)**

**LCS (0071306-BS1) (Continued)**

Prepared: 07/13/20 Analyzed: 07/15/20

Phenanthrene	0.322	0.040	mg/kg	0.400		80.6	41.6-117			
Pyrene	0.364	0.040	mg/kg	0.400		91.1	38.2-121			
<i>Surrogate: Terphenyl-d14</i>	<i>1.85</i>		mg/kg	<i>2.00</i>		<i>92.6</i>	<i>20.1-127</i>			

**LCS Dup (0071306-BSD1)**

Prepared: 07/13/20 Analyzed: 07/15/20

1-Methylnaphthalene	0.332	0.040	mg/kg	0.400		82.9	41.5-115	0.347	5.67	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.65</i>		mg/kg	<i>2.00</i>		<i>82.3</i>	<i>19.4-118</i>			
2-Methylnaphthalene	0.328	0.040	mg/kg	0.400		82.0	41.3-115	0.171	5.43	
Acenaphthene	0.329	0.040	mg/kg	0.400		82.3	40.8-115	1.36	5.45	
Acenaphthylene	0.330	0.040	mg/kg	0.400		82.6	39.6-115	0.306	4.49	
Anthracene	0.326	0.040	mg/kg	0.400		81.5	41.6-116	1.11	3.74	
Benzo[a]anthracene	0.363	0.040	mg/kg	0.400		90.7	38.1-120	0.588	3.05	
Benzo[a]pyrene	0.332	0.040	mg/kg	0.400		83.0	43.2-122	0.974	3.42	
Benzo[b]flouranthene	0.361	0.040	mg/kg	0.400		90.1	36-129	5.92	32.9	
Benzo[g,h,i]perylene	0.323	0.040	mg/kg	0.400		80.8	29.6-131	0.845	6.1	
Benzo[k]flouranthene	0.339	0.040	mg/kg	0.400		84.8	40.9-123	0.427	6.97	
Carbazole	0.324	0.040	mg/kg	0.400		81.1	41.3-117	1.34	5.33	
Chrysene	0.366	0.040	mg/kg	0.400		91.4	39.4-118	0.0765	2.77	
Dibenz[a,h]anthracene	0.323	0.040	mg/kg	0.400		80.8	37-123	3.08	5.52	
Flouranthene	0.330	0.040	mg/kg	0.400		82.6	42.5-116	0.00605	6.41	
Fluorene	0.336	0.040	mg/kg	0.400		83.9	40.8-115	0.647	5.01	
Indeno[1,2,3-cd]pyrene	0.324	0.040	mg/kg	0.400		80.9	40.5-121	2.34	4.92	
Naphthalene	0.334	0.040	mg/kg	0.400		83.6	37.2-118	0.868	4.51	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1.55</i>		mg/kg	<i>2.00</i>		<i>77.7</i>	<i>11.5-118</i>			
Phenanthrene	0.326	0.040	mg/kg	0.400		81.5	41.6-117	1.11	4.53	
Pyrene	0.360	0.040	mg/kg	0.400		90.0	38.2-121	1.17	8.61	
<i>Surrogate: Terphenyl-d14</i>	<i>1.85</i>		mg/kg	<i>2.00</i>		<i>92.7</i>	<i>20.1-127</i>			

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BP America 1199 Main Ave Suite 101 Durango CO, 81303	Project: API - Classic, Table 910, BTEX/TPH Project Name / Number: State CB #1 Project Manager: Steve Moskal	Reported: 07/21/20 12:02
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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- PH Insufficient preservative to reduce the sample pH to less than 2. Sample was analyzed within 14 days of sampling, but beyond the 7 days recommended for Benzene, Toluene, and Ethylbenzene.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- 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

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