



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

29 August 2015

Kerry Smith  
Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas, TX 75243  
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 08/13/15 14:35.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

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



Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

**Reported:**  
08/29/15 15:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1#1 Source	1508194-01	Solid	08/13/15 09:18	08/13/15 14:35
S1#2 Source	1508194-02	Solid	08/13/15 09:22	08/13/15 14:35
S1#3 +250	1508194-03	Solid	08/13/15 09:35	08/13/15 14:35
S1#4 +500	1508194-04	Solid	08/13/15 09:41	08/13/15 14:35
S1#5 +750	1508194-05	Solid	08/13/15 09:46	08/13/15 14:35
S1#6 +1000	1508194-06	Solid	08/13/15 09:52	08/13/15 14:35

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Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### S1#1 Source

#### 1508194-01 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### Saturated Paste Extraction

pH	8.44			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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#### Total Metals by ICPMS

Arsenic	2.56	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	101 %	85.6-137			08/19/15	8021B		MS
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	83.2 %	47.2-157			08/17/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	91.7 %	52.1-176			08/17/15	8015B		MS
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Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### S1#2 Source

#### 1508194-02 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### Saturated Paste Extraction

pH	8.38			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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#### Total Metals by ICPMS

Arsenic	2.51	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- Cardinal Laboratories

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	101 %	85.6-137			08/19/15	8021B		MS
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#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	84.7 %	47.2-157			08/17/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	92.5 %	52.1-176			08/17/15	8015B		MS
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Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

**S1#3 +250**

**1508194-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

pH	8.56			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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**Total Metals by ICPMS**

Arsenic	3.00	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	100 %	85.6-137			08/19/15	8021B			MS
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	85.4 %	47.2-157			08/17/15	8015B			MS
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Surrogate: 1-Chlorooctadecane	89.6 %	52.1-176			08/17/15	8015B			MS
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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

S1#4 +500

1508194-04 (Solid)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

pH	8.86			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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**Total Metals by ICPMS**

Arsenic	3.04	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- Cardinal Laboratories

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	101 %	85.6-137			08/19/15	8021B			MS
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	85.8 %	47.2-157			08/17/15	8015B			MS
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Surrogate: 1-Chlorooctadecane	89.9 %	52.1-176			08/17/15	8015B			MS
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Debbie Zufelt

Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

**S1#5 +750**

**1508194-05 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

pH	8.67			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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**Total Metals by ICPMS**

Arsenic	4.21	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	102 %	85.6-137			08/19/15	8021B			MS
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	80.8 %	47.2-157			08/17/15	8015B			MS
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Surrogate: 1-Chlorooctadecane	89.3 %	52.1-176			08/17/15	8015B			MS
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*Debbie Zufelt*

Debbie Zufelt, Reports Manager

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Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

**S1#6 +1000****1508194-06 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Saturated Paste Extraction**

pH	8.57			pH Units	1	08/19/15	ASA#9 12-2.6		LLG
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**Total Metals by ICPMS**

Arsenic	3.56	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Subcontracted -- **Cardinal Laboratories**

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	102 %	85.6-137			08/19/15	8021B		MS
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/17/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/17/15	8015B		MS

Surrogate: 1-Chlorooctane	78.6 %	47.2-157			08/17/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	86.4 %	52.1-176			08/17/15	8015B		MS
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Debbie Zufelt, Reports Manager

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Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### 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 B508207 - General Prep - Wet Chem

Duplicate (B508207-DUP1)

Source: 1508052-04

Prepared & Analyzed: 08/19/15

pH	7.78		pH Units		7.75			0.386	20	
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Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### 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 B508288 - EPA 3050M

##### Blank (B508288-BLK1)

Prepared & Analyzed: 08/27/15

Arsenic ND 0.0005 mg/kg dry

##### LCS (B508288-BS1)

Prepared & Analyzed: 08/27/15

Arsenic 0.0559 0.0005 mg/kg dry 0.0500 112 85-115

##### LCS Dup (B508288-BSD1)

Prepared & Analyzed: 08/27/15

Arsenic 0.0535 0.0005 mg/kg dry 0.0500 107 85-115 4.38 20

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12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### 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 5081808 - Volatiles

##### Blank (5081808-BLK1)

Prepared: 08/18/15 Analyzed: 08/19/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	85.6-137		
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 (5081808-BS1)

Prepared &amp; Analyzed: 08/18/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.9	85.6-137		
Benzene	2.19	0.050	mg/kg	2.00		109	73-130		
Ethylbenzene	2.27	0.050	mg/kg	2.00		114	71.9-119		
Toluene	2.10	0.050	mg/kg	2.00		105	77-117		
Total Xylenes	6.32	0.150	mg/kg	6.00		105	76.2-112		

##### LCS Dup (5081808-BSD1)

Prepared &amp; Analyzed: 08/18/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.7	85.6-137		
Benzene	2.20	0.050	mg/kg	2.00		110	73-130	0.860	6.59
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	71.9-119	0.379	8.3
Toluene	2.11	0.050	mg/kg	2.00		105	77-117	0.496	6.92
Total Xylenes	6.33	0.150	mg/kg	6.00		106	76.2-112	0.188	8.93

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Monument Global Resources  
12160 N. Abrams Rd. Suite 160  
Dallas TX, 75243

Project: Table 910  
Project Name / Number: Cache Unit Spill #1  
Project Manager: Kerry Smith

Reported:  
08/29/15 15:36

### 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 5081406 - General Prep - Organics

##### Blank (5081406-BLK1)

Prepared: 08/14/15 Analyzed: 08/17/15

Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	52.1-176			
Surrogate: 1-Chlorooctane	41.5		mg/kg	50.0		83.0	47.2-157			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

##### LCS (5081406-BS1)

Prepared: 08/14/15 Analyzed: 08/17/15

Surrogate: 1-Chlorooctadecane	46.7		mg/kg	50.0		93.3	52.1-176			
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	47.2-157			
DRO >C10-C28	199	10.0	mg/kg	200		99.3	81.3-118			
GRO C6-C10	186	10.0	mg/kg	200		93.0	72.5-115			
Total TPH C6-C28	385	10.0	mg/kg	400		96.2	80-113			

##### LCS Dup (5081406-BS1)

Prepared: 08/14/15 Analyzed: 08/17/15

Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.1	52.1-176			
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.0	47.2-157			
DRO >C10-C28	194	10.0	mg/kg	200		97.2	81.3-118	2.15	15.3	
GRO C6-C10	180	10.0	mg/kg	200		90.0	72.5-115	3.31	10.1	
Total TPH C6-C28	374	10.0	mg/kg	400		93.6	80-113	2.71	12.1	

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**Reported:**  
08/29/15 15:36

### 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

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(970) 247-4220  
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com  
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name (optional): Monument Geobar Resources		P.O. #:		Bill to (if different):		ANALYSIS REQUEST	
Project Contact Person: KERRY SMITH / DAVID BOUWER		Company:					
Address: 12166N Abrams Rd Ste 610		Attn:					
City: DALLAS State: TX Zip: 75243		Address:					
Phone #: KS. 575 937 8001 OB 303 720 8324		City:					
Email: KSMITH@monumentgeobar.com		State:		Zip:			
Project Name (optional): Cache Unit		Phone #:					
Project Number (optional): SPT #1		Fax or Email:					
Sampler Name (Print): DAVID BOUWER bouwer.dj@gmail.com		Matrix (check one)		# of containers			
For Lab Use		Collected		GROUNDWATER			
		Date		SURFACEWATER			
Sample Name or Location		Time		WASTEWATER			
				PRODUCEDWATER			
				SOIL			
				OTHER :			
				No preservation (general)			
				HNO <sub>3</sub>			
				HCl			
				H <sub>2</sub> SO <sub>4</sub>			
				Other:			
				Other:			
1508-194-01		*S1 #1 Source		-8.13.15 - 9:18		Table 910-1 Reproduc	
S1 #2 Source		8.13.15 9:22					
S1 #3 + 250		8.13.15 9:35					
S1 #4 + 500		8.13.15 9:41					
S1 #5 + 750		8.13.15 9:46					
S1 #6 + 1000		8.13.15 9:52					
S1 #7 + 1250		8.13.15					
S1 #8 + 1500		8.13.15					
S1 #9 + 1750		8.13.15					
PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Received By: David Bouwer		Date: 8-13-15		Time: 2:35 pm	
Relinquished By:		Received By:		Date:		Time:	
Relinquished By:		Received By:		Date:		Time:	
Delivered By: (Circle One)		Temperature at receipt:		CHECKED BY:			
Sampler - UPS - FedEx - Kangaroo - Other:		#1 18.20 in		D3			
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.		t GAL cannot always accept verbal changes. Please fax or email written change requests.					
ADDITIONAL REMARKS: Ar, pH, TH (Geo, Deo, Oro) + B Tex.		Report to State? (Circle)		Yes No			