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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".

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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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
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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
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	85.6-137		08/19/15	8021B		MS

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
<i>Surrogate: 1-Chlorooctane</i>			83.2 %	47.2-157		08/17/15	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			91.7 %	52.1-176		08/17/15	8015B		MS

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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
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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

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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

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

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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

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

Surrogate: 1-Chlorooctadecane 89.6 % 52.1-176 08/17/15 8015B MS

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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
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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

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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

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

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

Surrogate: 1-Chlorooctadecane 89.3 % 52.1-176 08/17/15 8015B MS

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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
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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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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
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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 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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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
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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 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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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 & 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 & 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	

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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-BSD1)

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	

Green Analytical Laboratories

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
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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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