

Red Mountain Ranch 33-11 Reserve Pit (Location ID: 334525; Document #: 2215980) Reclamation and Closure Sampling Narrative

This is Oxy's updated Red Mountain Ranch 33-11 reserve pit sampling narrative, and is being provided in support of the Red Mountain Ranch 33-11 Sundry Notice reserve pit closure documentation submitted on 09/08/2011 (reference COGCC document number 2215980). The narrative details what closure, and background samples were taken, where they were taken and for what purpose.

Post Reclaim Samples 06/19/2009 (L408717, CAL 09062903)

- Oxy removed the pit liner and mixed the pit bottom with a back hoe. The initial post reclaim sample was a five point composite sample of the pit bottom, which was consistent with practices conducted at time of closure (2009). The initial post reclaim samples were taken along the length of the pit between 0-6 inches at the pit bottom, which was approximately 10' feet below the pad surface. The initial post reclaim samples are represented in the tabulated data spreadsheet, in the first and second columns and labeled as "Post Reclaim" for Sample Type on the attached table. Note that there are two "Post Reclaim" sample columns; this is due to that fact that two separate labs were used to process the samples. Lab sample L408717 analyzed the majority of the 910-1 constituents and the CAL 09062903 lab sample analyzed Boron. The initial post reclaim sample date was 06/19/2009 and the Sample ID from the data tabulation is Red Mount. 33-11-Rec. These samples are shown on the Red Mountain Ranch 33-11 Reserve Pit Sampling map as black dots and are referenced in the legend as Pit Sample Locations. The lab data reports for these samples are attached. The sample values can be found on lab report L408717 on pages 4 and 5 and on CAL 09062903 page 2 as sample ID Red Mount. 33-11-Rec.
- Initial Post Reclaim values showed elevated concentrations for Arsenic (As).

Background Samples 06/19/2009 (L408717, CAL 09062903)

- In an effort to identify elevated concentrations of naturally occurring As similar to that which was previously identified in the Post Reclaim sample. Oxy collected one native background five point composite sample on 06/19/2009 from undisturbed locations around the pad at depths of 0-6 inches. The Composite background sample date was 06/19/2009 and can be found in the third and fourth columns of the tabulated data. Note that there are two "Background" sample columns; this is due to that fact that two separate labs were used to process the samples. Lab sample L408717 analyzed the majority of the 910-1 constituents and the CAL 09062903 lab sample analyzed Boron. The Sample ID from the data tabulation is Red Mount. 33-11-BG. These samples are shown on the Red Mountain Ranch 33-11 Reserve Pit Sampling map as fuchsia dots and are referenced in the legend as Background sample locations. The sample values can be found on lab report L408717 on pages 2 and 3 and on CAL 09062903 page 1 as sample ID Red Mount. 33-11-BG.
- The sampling effort yielded background As concentrations above those found in Post Reclaim samples (06/19/2009). The five point composite background sample also showed the presence of TPH and Ethylbenzene. Although these values are found to be well below the COGCC table 910-1 allowable concentrations, the COGCC requested a possible explanation for these values. Oxy speculates that the presence of TPH and Ethylbenzene were from one of the five sample points that was possibly contaminated. As this was a composite sample and no other contaminants were present it's possible that these concentrations were a result of a non gas pad related contamination.

In conclusion, this pit has been closed and meets both the COGCC 900 series and 1000 series rules for pit closure. All analyte concentrations were found to be below COGCC table 910-1 allowable concentrations, or were found to be below native background levels. Oxy will continue to monitor this site to ensure that the pit cap has not subsided and for stormwater compliance until final pad reclamation has occurred.



OXY USA Inc.
760 Horizon Drive, Suite 101
Grand Junction, CO 81506

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**Red Mountain Ranch 33-11
Reserve Pit Sampling Map**

Mesa County, Colorado

0 0.005 0.01 0.015 0.02 Miles



Pit Sample Locations ●
Background sample locations ●

Approximate Location of Pit

Pit Reclaims - Collbran

Pad #:	Red Mountain 33-11
Sample Date:	6/19/2009
Clearance Achieved Date:	

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Sample Identifications (mg/kg)

Laboratory Report #	L408717	CAL 09062903	L408717	CAL 09062903
Sample Date	6/19/2009	6/19/2009	6/19/2009	6/19/2009
Sample Type	Post Reclaim	Post Reclaim	Background	Background
Sample ID	Red Mount. 33-11-Rec	Red Mount. 33-11-Rec	Red Mount. 33-11-BG	Red Mount. 33-11-BG

Organics in Soil	MCL (mg/kg)				
TPH (GRO and DRO)	500	6.1	NA	32.0	NA
Benzene	0.17	<0.00082	NA	<0.00082	NA
Toluene	85	<0.0082	NA	<0.0082	NA
Ethylbenzene	100	<0.00082	NA	0.0017	NA
Xylenes	175	<0.0025	NA	<0.0025	NA

Organics in Soil (PAH's)					
Acenaphthene	1000	<0.010	NA	<0.010	NA
Anthracene	1000	<0.0080	NA	<0.0080	NA
Benzo(A)anthracene	0.22	<0.0086	NA	<0.0086	NA
Benzo(B)fluoranthene	0.22	<0.013	NA	<0.013	NA
Benzo(K)fluoranthene	2.2	<0.011	NA	<0.011	NA
Benzo(A)pyrene	0.022	<0.0092	NA	<0.0092	NA
Chrysene	22	<0.011	NA	<0.011	NA
Dibenzo(A,H)anthracene	0.022	<0.0093	NA	<0.0093	NA
Fluoranthene	1000	<0.0076	NA	<0.0076	NA
Flourene	1000	<0.011	NA	<0.011	NA
Indeno(1,2,3,C,D)pyrene	0.22	<0.0099	NA	<0.0099	NA
Napthalene	23	<0.0081	NA	<0.0081	NA
Pyrene	1000	<0.010	NA	<0.010	NA

Inorganics in Soil					
EC	<4 mmhos/cm or 2X background	0.220	NA	0.072	NA
SAR	<12	1.4	NA	1.4	NA
pH	6-9	7.8	NA	7.1	NA

Metals in Soils					
Arsenic	0.39	0.65	NA	0.86	NA
Barium	15000	120	NA	100	NA
Boron (Hot Water Soluble)	2 (mg/L)	NA	0.5	NA	1.1
Cadmium	70	0.82	NA	0.82	NA
Chromium	12000	20.0	NA	20.0	NA
Chromium VI	23	2.2	NA	<2.6	NA
Copper	3100	16.0	NA	16.0	NA
Lead	400	9.9	NA	10.0	NA
Mercury	23	0.0098	NA	0.013	NA
Nickel	1600	11.0	NA	122.0	NA
Selenium	390	<0.33	NA	<0.33	NA
Silver	390	<0.16	NA	<0.16	NA
Zinc	23000	48.0	NA	53.0	NA



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Brett Kennedy
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101

Grand Junction, CO 81506

Report Summary

Wednesday July 22, 2009

Report Number: L408717

Samples Received: 06/20/09

Client Project:

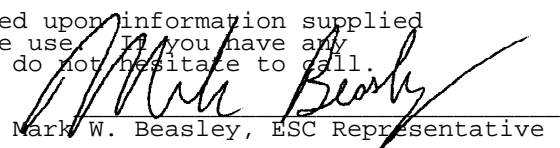
Description: Pit Reclaims - Collbran

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910


Mark W. Beasley, ESC Representative

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Brett Kennedy
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 22, 2009

Date Received : June 20, 2009
Description : Pit Reclaims - Collbran

Sample ID : RED MOUNT. 33-11-BG

Collected By : Brett Kennedy
Collection Date : 06/19/09 12:20

ESC Sample # : L408717-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	U	2.6	50.	mg/kg	O	3060A/7	06/25/09	25
ORP	170			mV		2580	06/23/09	1
pH	7.1			su		9045D	06/24/09	1
Sodium Adsorption Ratio	1.4					Calc.	06/26/09	1
Specific Conductance	72.			umhos/cm		9050AMo	06/23/09	1
Mercury	0.013	0.0025	0.020	mg/kg	J	7471	06/22/09	1
Arsenic	0.86	0.27	1.0	mg/kg	J	6010B	06/26/09	1
Barium	100	0.054	0.25	mg/kg		6010B	06/26/09	1
Cadmium	0.82	0.037	0.25	mg/kg		6010B	06/26/09	1
Chromium	20.	0.098	0.50	mg/kg		6010B	06/26/09	1
Copper	16.	0.30	1.0	mg/kg		6010B	06/26/09	1
Lead	10.	0.096	0.25	mg/kg		6010B	06/26/09	1
Nickel	12.	0.49	1.0	mg/kg		6010B	06/26/09	1
Selenium	U	0.33	1.0	mg/kg		6010B	06/26/09	1
Silver	U	0.16	0.50	mg/kg		6010B	06/26/09	1
Zinc	53.	0.44	1.5	mg/kg		6010B	06/26/09	1
Benzene	U	0.00082	0.0025	mg/kg		8021/80	06/24/09	5
Toluene	U	0.0082	0.025	mg/kg		8021/80	06/24/09	5
Ethylbenzene	0.0017	0.00082	0.0025	mg/kg	J	8021/80	06/24/09	5
Total Xylene	U	0.0025	0.0075	mg/kg		8021/80	06/24/09	5
TPH (GC/FID) Low Fraction	U	0.16	0.50	mg/kg		GRO	06/24/09	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	96.7			% Rec.		8021/80	06/24/09	5
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	06/24/09	5
TPH (GC/FID) High Fraction	32.	1.3	4.0	mg/kg		3546/DR	06/23/09	1
Surrogate recovery(%)								
o-Terphenyl	99.2			% Rec.		3546/DR	06/23/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0080	0.033	mg/kg		8270C	06/24/09	1
Acenaphthene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Acenaphthylene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Benzo(a)anthracene	U	0.0086	0.033	mg/kg		8270C	06/24/09	1
Benzo(a)pyrene	U	0.0092	0.033	mg/kg		8270C	06/24/09	1
Benzo(b)fluoranthene	U	0.013	0.033	mg/kg		8270C	06/24/09	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/22/09 16:38 Printed: 07/22/09 16:39

L408717-01 (ORP) - 173@21.8C

L408717-01 (PH) - 7.1@22.9C

L408717-01 (CR6) - diluted due to sample color



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REPORT OF ANALYSIS

Brett Kennedy
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 22, 2009

Date Received : June 20, 2009
Description : Pit Reclaims - Collbran

Sample ID : RED MOUNT. 33-11-BG

Collected By : Brett Kennedy
Collection Date : 06/19/09 12:20

ESC Sample # : L408717-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(g,h,i)perylene	U	0.0089	0.033	mg/kg		8270C	06/24/09	1
Benzo(k)fluoranthene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Chrysene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Dibenz(a,h)anthracene	U	0.0093	0.033	mg/kg		8270C	06/24/09	1
Fluoranthene	U	0.0076	0.033	mg/kg		8270C	06/24/09	1
Fluorene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Indeno(1,2,3-cd)pyrene	U	0.0099	0.033	mg/kg		8270C	06/24/09	1
Naphthalene	U	0.0081	0.033	mg/kg		8270C	06/24/09	1
Phenanthrene	U	0.0087	0.033	mg/kg		8270C	06/24/09	1
Pyrene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Surrogate Recovery								
Nitrobenzene-d5	71.0			% Rec.		8270C	06/24/09	1
2-Fluorobiphenyl	60.9			% Rec.		8270C	06/24/09	1
p-Terphenyl-d14	64.0			% Rec.		8270C	06/24/09	1

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760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 22, 2009

Date Received : June 20, 2009
Description : Pit Reclaims - Collbran

Sample ID : RED MOUNT. 33-11-REC

Collected By : Brett Kennedy
Collection Date : 06/19/09 12:05

ESC Sample # : L408717-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	2.2	1.0	20.	mg/kg	JO	3060A/7	06/25/09	10
ORP	170			mV		2580	06/23/09	1
pH	7.8			su		9045D	06/24/09	1
Sodium Adsorption Ratio	1.4					Calc.	06/26/09	1
Specific Conductance	220			umhos/cm		9050AMo	06/23/09	1
Mercury	0.0098	0.0025	0.020	mg/kg	J	7471	06/22/09	1
Arsenic	0.65	0.27	1.0	mg/kg	J	6010B	06/26/09	1
Barium	120	0.054	0.25	mg/kg		6010B	06/26/09	1
Cadmium	0.82	0.037	0.25	mg/kg		6010B	06/26/09	1
Chromium	20.	0.098	0.50	mg/kg		6010B	06/26/09	1
Copper	16.	0.30	1.0	mg/kg		6010B	06/26/09	1
Lead	9.9	0.096	0.25	mg/kg		6010B	06/26/09	1
Nickel	11.	0.49	1.0	mg/kg		6010B	06/26/09	1
Selenium	U	0.33	1.0	mg/kg		6010B	06/26/09	1
Silver	U	0.16	0.50	mg/kg		6010B	06/26/09	1
Zinc	48.	0.44	1.5	mg/kg		6010B	06/26/09	1
Benzene	U	0.00082	0.0025	mg/kg		8021/80	06/23/09	5
Toluene	U	0.0082	0.025	mg/kg		8021/80	06/23/09	5
Ethylbenzene	U	0.00082	0.0025	mg/kg		8021/80	06/23/09	5
Total Xylene	U	0.0025	0.0075	mg/kg		8021/80	06/23/09	5
TPH (GC/FID) Low Fraction	U	0.16	0.50	mg/kg		GRO	06/23/09	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	93.7			% Rec.		8021/80	06/23/09	5
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	06/23/09	5
TPH (GC/FID) High Fraction	6.1	1.3	4.0	mg/kg		3546/DR	06/23/09	1
Surrogate recovery(%)								
o-Terphenyl	89.5			% Rec.		3546/DR	06/23/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0080	0.033	mg/kg		8270C	06/24/09	1
Acenaphthene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Acenaphthylene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Benzo(a)anthracene	U	0.0086	0.033	mg/kg		8270C	06/24/09	1
Benzo(a)pyrene	U	0.0092	0.033	mg/kg		8270C	06/24/09	1
Benzo(b)fluoranthene	U	0.013	0.033	mg/kg		8270C	06/24/09	1

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Reported: 07/22/09 16:38 Printed: 07/22/09 16:39

L408717-02 (CR6) - diluted due to sample color

L408717-02 (ORP) - 168@21.6C

L408717-02 (PH) - 7.8@23.1C



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REPORT OF ANALYSIS

Brett Kennedy
OXY USA Inc - Grand Junction, CO
760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

July 22, 2009

Date Received : June 20, 2009
Description : Pit Reclaims - Collbran

Sample ID : RED MOUNT. 33-11-REC

Collected By : Brett Kennedy
Collection Date : 06/19/09 12:05

ESC Sample # : L408717-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(g,h,i)perylene	U	0.0089	0.033	mg/kg		8270C	06/24/09	1
Benzo(k)fluoranthene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Chrysene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Dibenz(a,h)anthracene	U	0.0093	0.033	mg/kg		8270C	06/24/09	1
Fluoranthene	U	0.0076	0.033	mg/kg		8270C	06/24/09	1
Fluorene	U	0.011	0.033	mg/kg		8270C	06/24/09	1
Indeno(1,2,3-cd)pyrene	U	0.0099	0.033	mg/kg		8270C	06/24/09	1
Naphthalene	U	0.0081	0.033	mg/kg		8270C	06/24/09	1
Phenanthrene	U	0.0087	0.033	mg/kg		8270C	06/24/09	1
Pyrene	U	0.010	0.033	mg/kg		8270C	06/24/09	1
Surrogate Recovery								
Nitrobenzene-d5	93.4			% Rec.		8270C	06/24/09	1
2-Fluorobiphenyl	81.3			% Rec.		8270C	06/24/09	1
p-Terphenyl-d14	80.7			% Rec.		8270C	06/24/09	1

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L408717-02 (CR6) - diluted due to sample color

L408717-02 (ORP) - 168@21.6C

L408717-02 (PH) - 7.8@23.1C

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L408717-01	WG427729	SAMP	Ethylbenzene	R791188	J
	WG428211	SAMP	Arsenic	R795706	J
	WG427882	SAMP	Chromium, Hexavalent	R793466	O
	WG427602	SAMP	Mercury	R790411	J
L408717-02	WG428211	SAMP	Arsenic	R795706	J
	WG427882	SAMP	Chromium, Hexavalent	R793466	JO
	WG427602	SAMP	Mercury	R790411	J

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Received 9/19/2012 Rifle COGCC
07/22/09 at 16:39:08

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L408717-01 Account: OXYGJCO Received: 06/20/09 09:00 Due Date: 06/26/09 00:00 RPT Date: 07/22/09 16:38

Sample: L408717-02 Account: OXYGJCO Received: 06/20/09 09:00 Due Date: 06/26/09 00:00 RPT Date: 07/22/09 16:38



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OXY USA Inc - Grand Junction, CO
Brett Kennedy
760 Horizon Dr., Ste. 101

Quality Assurance Report Level II

Grand Junction, CO 81506

L408717

July 22, 2009

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) High Fraction	< 4	ppm			WG427640	06/22/09 12:30
o-Terphenyl		% Rec.	82.49	50-150	WG427640	06/22/09 12:30
Mercury	< .02	mg/kg			WG427602	06/22/09 13:31
Specific Conductance	0.980	umhos/cm			WG427793	06/23/09 15:30
Benzene	< .0005	mg/kg			WG427729	06/23/09 14:47
Ethylbenzene	< .0005	mg/kg			WG427729	06/23/09 14:47
Toluene	< .005	mg/kg			WG427729	06/23/09 14:47
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG427729	06/23/09 14:47
Total Xylene	< .0015	mg/kg			WG427729	06/23/09 14:47
a,a,a-Trifluorotoluene(FID)		% Rec.	98.10	59-128	WG427729	06/23/09 14:47
a,a,a-Trifluorotoluene(PID)		% Rec.	105.0	54-144	WG427729	06/23/09 14:47
Acenaphthene	< .33	ppm			WG427943	06/24/09 11:58
Acenaphthylene	< .33	ppm			WG427943	06/24/09 11:58
Anthracene	< .33	ppm			WG427943	06/24/09 11:58
Benzo(a)anthracene	< .33	ppm			WG427943	06/24/09 11:58
Benzo(a)pyrene	< .33	ppm			WG427943	06/24/09 11:58
Benzo(b)fluoranthene	< .33	ppm			WG427943	06/24/09 11:58
Benzo(g,h,i)perylene	< .33	ppm			WG427943	06/24/09 11:58
Benzo(k)fluoranthene	< .33	ppm			WG427943	06/24/09 11:58
Chrysene	< .33	ppm			WG427943	06/24/09 11:58
Dibenz(a,h)anthracene	< .33	ppm			WG427943	06/24/09 11:58
Fluoranthene	< .33	ppm			WG427943	06/24/09 11:58
Fluorene	< .33	ppm			WG427943	06/24/09 11:58
Indeno(1,2,3-cd)pyrene	< .33	ppm			WG427943	06/24/09 11:58
Naphthalene	< .33	ppm			WG427943	06/24/09 11:58
Phenanthrene	< .33	ppm			WG427943	06/24/09 11:58
Pyrene	< .33	ppm			WG427943	06/24/09 11:58
2-Fluorobiphenyl		% Rec.	69.52	30-120	WG427943	06/24/09 11:58
Nitrobenzene-d5		% Rec.	60.30	18-119	WG427943	06/24/09 11:58
p-Terphenyl-d14		% Rec.	73.49	23-143	WG427943	06/24/09 11:58
pH	2.70	su			WG427879	06/24/09 16:05
Benzene	< .0005	mg/kg			WG427982	06/23/09 18:48
Ethylbenzene	< .0005	mg/kg			WG427982	06/23/09 18:48
Toluene	< .005	mg/kg			WG427982	06/23/09 18:48
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG427982	06/23/09 18:48
Total Xylene	< .0015	mg/kg			WG427982	06/23/09 18:48
a,a,a-Trifluorotoluene(FID)		% Rec.	95.07	59-128	WG427982	06/23/09 18:48
a,a,a-Trifluorotoluene(PID)		% Rec.	102.2	54-144	WG427982	06/23/09 18:48
Chromium, Hexavalent	< 2	mg/kg			WG427882	06/25/09 14:38
Arsenic	< 1	mg/kg			WG428211	06/26/09 19:31
Barium	< .25	mg/kg			WG428211	06/26/09 19:31
Cadmium	< .25	mg/kg			WG428211	06/26/09 19:31
Chromium	< .5	mg/kg			WG428211	06/26/09 19:31

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Brett Kennedy
760 Horizon Dr., Ste. 101

Quality Assurance Report Level II

Grand Junction, CO 81506

L408717

July 22, 2009

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Copper	< 1	mg/kg			WG428211	06/26/09 19:31
Lead	< .25	mg/kg			WG428211	06/26/09 19:31
Nickel	< 1	mg/kg			WG428211	06/26/09 19:31
Selenium	< 1	mg/kg			WG428211	06/26/09 19:31
Silver	< .5	mg/kg			WG428211	06/26/09 19:31
Zinc	< 1.5	mg/kg			WG428211	06/26/09 19:31

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Mercury	mg/kg	0.00	0.250	NA	20	L408762-06	WG427602
ORP	mV	193.	190.	1.57	20	L408455-05	WG427804
ORP	mV	183.	160.	13.4	20	L408716-02	WG427804
Specific Conductance	umhos/cm	24.9	26.0	4.24	20	L408716-01	WG427793
pH	su	6.80	6.70	1.48	20	L408716-01	WG427879
Chromium, Hexavalent	mg/kg	0.00	0.00	0.00	20	L408716-01	WG427882
Arsenic	mg/kg	1.44	1.50	4.08	20	L408668-03	WG428211
Barium	mg/kg	120.	160.	28.6*	20	L408668-03	WG428211
Cadmium	mg/kg	0.497	0.490	1.42	20	L408668-03	WG428211
Chromium	mg/kg	19.5	18.0	8.00	20	L408668-03	WG428211
Copper	mg/kg	12.9	15.0	15.1	20	L408668-03	WG428211
Lead	mg/kg	8.87	8.40	5.44	20	L408668-03	WG428211
Nickel	mg/kg	13.5	13.0	3.77	20	L408668-03	WG428211
Selenium	mg/kg	0.00	0.00	0.00	20	L408668-03	WG428211
Silver	mg/kg	0.00	0.00	0.00	20	L408668-03	WG428211
Zinc	mg/kg	31.1	31.0	0.322	20	L408668-03	WG428211

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	ppm	60	39.9	66.5	50-150	WG427640
o-Terphenyl				96.83	50-150	WG427640
Mercury	mg/kg	8.77	9.20	105.	71.6-127.7	WG427602
ORP	mV	229	220.	96.1	95.6-104.37	WG427804
Specific Conductance	umhos/cm	589	530.	90.0	85-115	WG427793
Benzene	mg/kg	.05	0.0488	97.6	76-113	WG427729
Ethylbenzene	mg/kg	.05	0.0461	92.2	78-115	WG427729
Toluene	mg/kg	.05	0.0473	94.6	76-114	WG427729
Total Xylene	mg/kg	.15	0.147	98.0	81-118	WG427729
a,a,a-Trifluorotoluene(PID)				102.4	54-144	WG427729
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.55	82.8	67-135	WG427729

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Grand Junction, CO 81506

L408717

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
a,a,a-Trifluorotoluene(FID)				121.1	59-128	
Acenaphthene	ppm	.167	0.131	78.2	44-117	WG427943
Acenaphthylene	ppm	.167	0.127	76.3	43-118	WG427943
Anthracene	ppm	.167	0.136	81.3	42-127	WG427943
Benzo(a)anthracene	ppm	.167	0.132	78.9	45-127	WG427943
Benzo(a)pyrene	ppm	.167	0.138	82.5	46-123	WG427943
Benzo(b)fluoranthene	ppm	.167	0.125	74.6	43-126	WG427943
Benzo(g,h,i)perylene	ppm	.167	0.141	84.4	43-128	WG427943
Benzo(k)fluoranthene	ppm	.167	0.136	81.6	40-126	WG427943
Chrysene	ppm	.167	0.130	78.1	44-129	WG427943
Dibenz(a,h)anthracene	ppm	.167	0.135	80.6	43-127	WG427943
Fluoranthene	ppm	.167	0.139	83.5	44-125	WG427943
Fluorene	ppm	.167	0.131	78.7	45-121	WG427943
Indeno(1,2,3-cd)pyrene	ppm	.167	0.137	82.2	43-127	WG427943
Naphthalene	ppm	.167	0.123	73.7	32-113	WG427943
Phenanthrene	ppm	.167	0.135	80.6	43-124	WG427943
Pyrene	ppm	.167	0.142	84.8	47-128	WG427943
2-Fluorobiphenyl				80.77	30-120	WG427943
Nitrobenzene-d5				77.87	18-119	WG427943
p-Terphenyl-d14				91.51	23-143	WG427943
pH	su	9.04	8.90	98.5	97.4-102.6	WG427879
Benzene	mg/kg	.05	0.0524	105.	76-113	WG427982
Ethylbenzene	mg/kg	.05	0.0479	95.8	78-115	WG427982
Toluene	mg/kg	.05	0.0505	101.	76-114	WG427982
Total Xylene	mg/kg	.15	0.147	98.0	81-118	WG427982
a,a,a-Trifluorotoluene(PID)				100.0	54-144	WG427982
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.40	80.0	67-135	WG427982
a,a,a-Trifluorotoluene(FID)				111.7	59-128	WG427982
Chromium,Hexavalent	mg/kg	102	104.	102.	50-143	WG427882
Arsenic	mg/kg	192	168.	87.5	78.6-120.8	WG428211
Barium	mg/kg	420	402.	95.7	78.8-121.4	WG428211
Cadmium	mg/kg	70.1	63.4	90.4	78.5-121.5	WG428211
Chromium	mg/kg	168	163.	97.0	80.4-120.2	WG428211
Copper	mg/kg	122	122.	100.	81.6-119.7	WG428211
Lead	mg/kg	113	102.	90.3	77.3-122.1	WG428211
Nickel	mg/kg	74.1	72.6	98.0	78.8-121.2	WG428211
Selenium	mg/kg	176	156.	88.6	75.6-125.0	WG428211
Silver	mg/kg	115	106.	92.2	66-133.9	WG428211
Zinc	mg/kg	437	400.	91.5	78.5-121.7	WG428211

Analyte	Units	Laboratory Control Sample Duplicate		%Rec	Limit	RPD	Limit	Batch
		Result	Ref					
TPH (GC/FID) High Fraction	ppm	46.0	39.9	77.0	50-150	14.2	25	WG427640
o-Terphenyl				99.09	50-150			WG427640
ORP	mV	220.	220.	96.0	95.6-104.37	0.00	20	WG427804
Specific Conductance	umhos/ 540.		530.	92.0	85-115	1.87	20	WG427793

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Grand Junction, CO 81506

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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0477	0.0488	95.0	76-113	2.19	20	WG427729
Ethylbenzene	mg/kg	0.0449	0.0461	90.0	78-115	2.53	20	WG427729
Toluene	mg/kg	0.0459	0.0473	92.0	76-114	3.10	20	WG427729
Total Xylene	mg/kg	0.143	0.147	95.0	81-118	2.66	20	WG427729
a,a,a-Trifluorotoluene(PID)				101.1	54-144			WG427729
TPH (GC/FID) Low Fraction	mg/kg	4.43	4.55	81.0	67-135	2.72	20	WG427729
a,a,a-Trifluorotoluene(FID)				119.8	59-128			WG427729
Acenaphthene	ppm	0.115	0.131	69.0	44-117	12.3	21	WG427943
Acenaphthylene	ppm	0.116	0.127	69.0	43-118	9.46	20	WG427943
Anthracene	ppm	0.119	0.136	72.0	42-127	12.8	21	WG427943
Benzo(a)anthracene	ppm	0.112	0.132	67.0	45-127	15.8	21	WG427943
Benzo(a)pyrene	ppm	0.119	0.138	71.0	46-123	14.6	20	WG427943
Benzo(b)fluoranthene	ppm	0.102	0.125	61.0	43-126	19.9	27	WG427943
Benzo(g,h,i)perylene	ppm	0.121	0.141	73.0	43-128	15.2	20	WG427943
Benzo(k)fluoranthene	ppm	0.104	0.136	63.0	40-126	26.4	32	WG427943
Chrysene	ppm	0.117	0.130	70.0	44-129	11.1	22	WG427943
Dibenz(a,h)anthracene	ppm	0.117	0.135	70.0	43-127	14.4	20	WG427943
Fluoranthene	ppm	0.124	0.139	74.0	44-125	12.0	22	WG427943
Fluorene	ppm	0.120	0.131	72.0	45-121	9.43	20	WG427943
Indeno(1,2,3-cd)pyrene	ppm	0.121	0.137	72.0	43-127	12.9	21	WG427943
Naphthalene	ppm	0.107	0.123	64.0	32-113	13.9	26	WG427943
Phenanthrene	ppm	0.115	0.135	69.0	43-124	15.5	21	WG427943
Pyrene	ppm	0.120	0.142	72.0	47-128	16.5	20	WG427943
2-Fluorobiphenyl				71.49	30-120			WG427943
Nitrobenzene-d5				64.54	18-119			WG427943
p-Terphenyl-d14				68.14	23-143			WG427943
pH	su	8.90	8.90	98.0	97.4-102.6	0.00	20	WG427879
Benzene	mg/kg	0.0486	0.0524	97.0	76-113	7.53	20	WG427982
Ethylbenzene	mg/kg	0.0449	0.0479	90.0	78-115	6.35	20	WG427982
Toluene	mg/kg	0.0474	0.0505	95.0	76-114	6.21	20	WG427982
Total Xylene	mg/kg	0.138	0.147	92.0	81-118	6.60	20	WG427982
a,a,a-Trifluorotoluene(PID)				100.7	54-144			WG427982
TPH (GC/FID) Low Fraction	mg/kg	4.46	4.40	81.0	67-135	1.38	20	WG427982
a,a,a-Trifluorotoluene(FID)				111.8	59-128			WG427982
Chromium,Hexavalent	mg/kg	102.	104.	100.	50-143	1.94	20	WG427882

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) High Fraction	ppm	578.	260.	60	531.*	50-150	L408693-01	WG427640
o-Terphenyl					53.60	50-150		WG427640
Mercury	mg/kg	0.736	0.250	.025	194.*	70-130	L408762-06	WG427602
Benzene	mg/kg	0.210	0.00	.05	84.0	32-137	L408588-04	WG427729
Ethylbenzene	mg/kg	0.193	0.00	.05	77.1	10-150	L408588-04	WG427729
Toluene	mg/kg	0.202	0.00	.05	80.8	20-142	L408588-04	WG427729
Total Xylene	mg/kg	0.608	0.00	.15	81.1	16-141	L408588-04	WG427729
a,a,a-Trifluorotoluene(PID)					101.8	54-144		WG427729

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L408717

Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
TPH (GC/FID) Low Fraction	mg/kg	17.6	0.00	5.5	63.9	55-109	L408588-04	WG427729
a,a,a-Trifluorotoluene(FID)					115.2	59-128		WG427729
Benzene	mg/kg	0.234	0.00	.05	93.7	32-137	L408717-02	WG427982
Ethylbenzene	mg/kg	0.208	0.00	.05	83.1	10-150	L408717-02	WG427982
Toluene	mg/kg	0.224	0.00	.05	89.5	20-142	L408717-02	WG427982
Total Xylene	mg/kg	0.634	0.00	.15	84.5	16-141	L408717-02	WG427982
a,a,a-Trifluorotoluene(PID)					98.76	54-144		WG427982
TPH (GC/FID) Low Fraction	mg/kg	17.0	0.00	5.5	61.9	55-109	L408717-02	WG427982
a,a,a-Trifluorotoluene(FID)					107.8	59-128		WG427982
Acenaphthene	ppm	0.119	0.00	.167	71.1	38-121	L408665-01	WG427943
Acenaphthylene	ppm	0.121	0.00	.167	72.4	39-120	L408665-01	WG427943
Anthracene	ppm	0.138	0.00	.167	82.6	35-133	L408665-01	WG427943
Benzo(a)anthracene	ppm	0.132	0.00	.167	78.8	35-136	L408665-01	WG427943
Benzo(a)pyrene	ppm	0.124	0.00	.167	74.2	37-131	L408665-01	WG427943
Benzo(b)fluoranthene	ppm	0.107	0.00	.167	64.3	29-145	L408665-01	WG427943
Benzo(g,h,i)perylene	ppm	0.163	0.00	.167	97.5	10-139	L408665-01	WG427943
Benzo(k)fluoranthene	ppm	0.121	0.00	.167	72.3	31-140	L408665-01	WG427943
Chrysene	ppm	0.140	0.00	.167	83.8	34-137	L408665-01	WG427943
Dibenz(a,h)anthracene	ppm	0.158	0.00	.167	94.4	21-132	L408665-01	WG427943
Fluoranthene	ppm	0.147	0.00	.167	88.2	34-132	L408665-01	WG427943
Fluorene	ppm	0.137	0.00	.167	81.8	38-126	L408665-01	WG427943
Indeno(1,2,3-cd)pyrene	ppm	0.159	0.00	.167	95.3	17-134	L408665-01	WG427943
Naphthalene	ppm	0.116	0.00	.167	69.7	24-122	L408665-01	WG427943
Phenanthrene	ppm	0.138	0.00	.167	82.7	38-128	L408665-01	WG427943
Pyrene	ppm	0.135	0.00	.167	80.8	35-141	L408665-01	WG427943
2-Fluorobiphenyl					84.05	30-120		WG427943
Nitrobenzene-d5					86.12	18-119		WG427943
p-Terphenyl-d14					88.06	23-143		WG427943
Chromium,Hexavalent	mg/kg	1.68	0.00	20	0.840*	80-120	L408716-02	WG427882
Arsenic	mg/kg	48.2	1.50	50	93.4	75-125	L408668-03	WG428211
Barium	mg/kg	175.	160.	50	30.0*	75-125	L408668-03	WG428211
Cadmium	mg/kg	45.4	0.490	50	89.8	75-125	L408668-03	WG428211
Chromium	mg/kg	70.3	18.0	50	105.	75-125	L408668-03	WG428211
Copper	mg/kg	67.8	15.0	50	106.	75-125	L408668-03	WG428211
Lead	mg/kg	54.9	8.40	50	93.0	75-125	L408668-03	WG428211
Nickel	mg/kg	62.2	13.0	50	98.4	75-125	L408668-03	WG428211
Selenium	mg/kg	43.7	0.00	50	87.4	75-125	L408668-03	WG428211
Silver	mg/kg	47.5	0.00	50	95.0	75-125	L408668-03	WG428211
Zinc	mg/kg	81.6	31.0	50	101.	75-125	L408668-03	WG428211

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
TPH (GC/FID) High Fraction	ppm	309.	578.	81.0	50-150	60.8*	25	L408693-01	WG427640
o-Terphenyl				92.56	50-150				WG427640
Mercury	mg/kg	0.462	0.736	84.8	70-130	45.7*	20	L408762-06	WG427602
Benzene	mg/kg	0.219	0.210	87.4	32-137	3.96	39	L408588-04	WG427729

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

OXY USA Inc - Grand Junction, CO
Brett Kennedy
760 Horizon Dr., Ste. 101

Quality Assurance Report Level II

Grand Junction, CO 81506

July 22, 2009

L408717

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Ethylbenzene	mg/kg	0.197	0.193	78.7	10-150	2.07	44	L408588-04	WG427729	
Toluene	mg/kg	0.207	0.202	82.8	20-142	2.47	42	L408588-04	WG427729	
Total Xylene	mg/kg	0.619	0.608	82.5	16-141	1.75	46	L408588-04	WG427729	
a,a,a-Trifluorotoluene(PID)				97.80	54-144					WG427729
TPH (GC/FID) Low Fraction	mg/kg	15.7	17.6	57.0	55-109	11.5	20	L408588-04	WG427729	
a,a,a-Trifluorotoluene(FID)				108.4	59-128					WG427729
Benzene	mg/kg	0.234	0.234	93.7	32-137	0.024	39	L408717-02	WG427982	
Ethylbenzene	mg/kg	0.210	0.208	83.8	10-150	0.856	44	L408717-02	WG427982	
Toluene	mg/kg	0.218	0.224	87.1	20-142	2.73	42	L408717-02	WG427982	
Total Xylene	mg/kg	0.633	0.634	84.3	16-141	0.224	46	L408717-02	WG427982	
a,a,a-Trifluorotoluene(PID)				98.97	54-144					WG427982
TPH (GC/FID) Low Fraction	mg/kg	16.7	17.0	60.7	55-109	1.90	20	L408717-02	WG427982	
a,a,a-Trifluorotoluene(FID)				106.4	59-128					WG427982
Acenaphthene	ppm	0.113	0.119	67.4	38-121	5.34	23	L408665-01	WG427943	
Acenaphthylene	ppm	0.116	0.121	69.6	39-120	4.00	22	L408665-01	WG427943	
Anthracene	ppm	0.138	0.138	82.5	35-133	0.163	23	L408665-01	WG427943	
Benzo(a)anthracene	ppm	0.135	0.132	80.8	35-136	2.54	23	L408665-01	WG427943	
Benzo(a)pyrene	ppm	0.132	0.124	79.3	37-131	6.59	22	L408665-01	WG427943	
Benzo(b)fluoranthene	ppm	0.108	0.107	64.5	29-145	0.321	33	L408665-01	WG427943	
Benzo(g,h,i)perylene	ppm	0.167	0.163	100.	10-139	2.65	26	L408665-01	WG427943	
Benzo(k)fluoranthene	ppm	0.118	0.121	70.6	31-140	2.45	34	L408665-01	WG427943	
Chrysene	ppm	0.141	0.140	84.6	34-137	0.905	23	L408665-01	WG427943	
Dibenz(a,h)anthracene	ppm	0.167	0.158	99.8	21-132	5.55	25	L408665-01	WG427943	
Fluoranthene	ppm	0.143	0.147	85.8	34-132	2.77	24	L408665-01	WG427943	
Fluorene	ppm	0.122	0.137	73.0	38-126	11.3	23	L408665-01	WG427943	
Indeno(1,2,3-cd)pyrene	ppm	0.165	0.159	98.8	17-134	3.57	25	L408665-01	WG427943	
Naphthalene	ppm	0.126	0.116	75.3	24-122	7.70	29	L408665-01	WG427943	
Phenanthrene	ppm	0.139	0.138	83.2	38-128	0.659	25	L408665-01	WG427943	
Pyrene	ppm	0.142	0.135	84.9	35-141	4.85	25	L408665-01	WG427943	
2-Fluorobiphenyl				80.12	30-120					WG427943
Nitrobenzene-d5				85.78	18-119					WG427943
p-Terphenyl-d14				84.54	23-143					WG427943
Chromium,Hexavalent	mg/kg	1.60	1.68	0.8*	80-120	4.88	20	L408716-02	WG427882	
Arsenic	mg/kg	46.5	48.2	90.0	75-125	3.59	20	L408668-03	WG428211	
Barium	mg/kg	178.	175.	36*	75-125	1.70	20	L408668-03	WG428211	
Cadmium	mg/kg	43.2	45.4	85.4	75-125	4.97	20	L408668-03	WG428211	
Chromium	mg/kg	63.4	70.3	90.8	75-125	10.3	20	L408668-03	WG428211	
Copper	mg/kg	65.0	67.8	100.	75-125	4.22	20	L408668-03	WG428211	
Lead	mg/kg	52.8	54.9	88.8	75-125	3.90	20	L408668-03	WG428211	
Nickel	mg/kg	59.6	62.2	93.2	75-125	4.27	20	L408668-03	WG428211	
Selenium	mg/kg	41.4	43.7	82.8	75-125	5.41	20	L408668-03	WG428211	
Silver	mg/kg	45.8	47.5	91.6	75-125	3.64	20	L408668-03	WG428211	
Zinc	mg/kg	78.0	81.6	94.0	75-125	4.51	20	L408668-03	WG428211	

Batch number /Run number / Sample number cross reference

WG427640: R789428: L408717-01 02
WG427602: R790411: L408717-01 02
WG427804: R790446: L408717-01 02
WG427793: R790567: L408717-01 02

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



ENVIRONMENTAL
SCIENCE CORP.

Received 9/19/2012 Rifle COGCC

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

OXY USA Inc - Grand Junction, CO
Brett Kennedy
760 Horizon Dr., Ste. 101

Quality Assurance Report
Level II

Grand Junction, CO 81506

July 22, 2009

L408717

WG427729: R791188: L408717-01
WG427943: R791486: L408717-01 02
WG427879: R792187: L408717-01 02
WG427982: R792209: L408717-02
WG427882: R793466: L408717-01 02
WG428010: R794730: L408717-01 02
WG428211: R795706: L408717-01 02

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Grand Junction, CO 81506

L408717

July 22, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address: OXY USA - Grand Junction, CO 760 Horizon Dr., Ste. 101 Grand Junction, CO 81506				Alternate billing information: 				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">As, Ba, Ca, Cu, Pb, Hg, Ni, Se, Ag, Zn</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CR DL</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX/TPH/GRO and QRO</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PAH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAR</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">pH</div> </div>				Chain of Custody ge + of + E169 ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859			
Report to: <u>Brett Kennedy</u>				Email to: <u>brett.kennedy@oxy.com</u>											
Project Description: <u>Pit Reclaims - Collbran</u>				City/State Collected: <u> </u>											
Phone: (970) 263-3601		Client Project #:		ESC Key:											
FAX: <u> </u>															
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#:		P.O.#:											
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u> </u> <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) Same Day.....200% Next Day.....100% Two Day.....50% Three Day.....25%		Date Results Needed: Email? <u> </u> No <u> </u> Yes FAX? <input checked="" type="checkbox"/> No <u> </u> Yes		No. of Cntrs		CoCode: OXYGJCO (lab use only) Template/Prelogin Shipped Via							
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time					Remarks/Contaminant	Sample # (lab only)				
Red Mount. 33-11-BG	Comp	Soil	-	6/19/09	1200	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LY08717-01			
Red Mount. 33-11-Rec	✓	✓	-	6/19/09	1805	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	02			

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Remarks:

8681 2139 9827

Flow _____ Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>6/19/09</u>	Time: <u>1645</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <u>OK</u> (lab use only)
	Date:	Time:	Received by: (Signature)	Temp: <u>31.2°C</u>	Bottles Received: <u>6</u>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	CoC Seals Intact <u> </u> Y <u> </u> N <u> </u> NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>C. Jones</u>	Date: <u>6-20-09</u>	pH Checked: <u> </u> NCF: <u> </u>
				Time: <u>0900</u>	

Analytical Results

Report To: Brett Kennedy
Company: Oxy USA WTP LP
760 Horizon Dr.
Grand Junction CO 81506

Task No: 09062903
Date Received: 6/29/09
Reported: 7/1/09
Client PO: NA
Client Project: Pit Reclaims - Collbran

Customer Sample ID Red Mount. 33-11 - BG
Sample Date/Time: 6/19/09 12:20 PM

Lab Number: 09062903-01
Matrix: Soil - Environmental

Test	Result	Reporting Limit	Method	Date Analyzed	Analyzed By
<u>Available Nutrients - Dry Weight Basis</u>					
Boron	1.1 ppm	0.1	ASA2 25-3	6/30/09	DAH

ASA = "Methods of Soil Analysis, Parts 1 and 2", Second Edition, American Society of Agronomy and Soil Science Society of America, Madison, WI, 1982.
SW-846 = "Test Methods for Evaluating Solid Waste", USEPA; November 1986
AB-DTPA = "Soil Testing Methods Used at Colorado State University for the Evaluation of Fertility, Salinity and Trace Element Toxicity", Colorado State University Technical Bulletin LT888-2; Jan 1998; SM Workman, PN Soltanpour and RH Fallett



DATA APPROVED FOR RELEASE BY

Analytical Results

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Company: Oxy USA WTP LP
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Task No: 09062903
Date Received: 6/29/09
Reported: 7/1/09
Client PO: NA
Client Project: Pit Reclaims - Collbran

Customer Sample ID Red Mount. 33-11 - Rec
Sample Date/Time: 6/19/09 12:05 PM

Lab Number: 09062903-02
Matrix: Soil - Environmental

Test	Result	Reporting Limit	Method	Date Analyzed	Analyzed By
<u>Available Nutrients - Dry Weight Basis</u>					
Boron	0.5 ppm	0.1	ASA2 25-3	6/30/09	DAH

ASA = "Methods of Soil Analysis, Parts 1 and 2", Second Edition, American Society of Agronomy and Soil Science Society of America. Madison, WI, 1982.
SW-846 = "Test Methods for Evaluating Solid Waste"; USEPA, November 1986
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DATA APPROVED FOR RELEASE BY



COMPANY NAME:
OXY USA, INC

CONTACT PERSON:
Brett Kennedy

CONTACT PERSON: <i>Brett Kennedy</i>	PROJECT ID / DESCRIPTION: <i>Pit Reclaims - Collbran</i>
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CONTACT PERSON: <i>Brett Kennedy</i>	PROJECT ID / DESCRIPTION: <i>Pit Reclaims - Collbran</i>	SAMPLED BY: <i>Brett Kennedy</i>
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**COLORADO ANALYTICAL
LABORATORIES, INC.**
**P.O. DRAWER 507
240 SOUTH MAIN STREET
BRIGHTON, CO 80601**
**PHONE: 303-659-2313
FAX: 303-659-2315**

LABORATORY USE ONLY

LAB # 09062903

LGN

LOC

20

DISP

DUE _____

REPORT RESULTS (Check One)
TO CDH: ☐ YES ☐ NO
(DRINKING WATER ONLY)

PUBLIC WATER SUPPLY
INFORMATION

PWSID:

SYSTEM NAME:

ADDRESS:

COUNTY:

DELIVERED BY:

RELINQUISHED BY

DATE/TIME 1400

RECEIVED BY

DATE/TIME 1-10-01 08

RELINQUISHED BY

DATE/TIME

DATE/TIME

240 S. Main St. • Brighton, CO 80601 • (303) 659-2313

Mailing Address: P.O. Box 507 • Brighton, CO 80601