

Stites 20-8 Reserve Pit (Location ID: 334519; Document #: 2216381) Reclamation and Closure Sampling Narrative

This is Oxy's updated Stites 20-8 reserve pit sampling narrative. This is being provided in support of closure documentation, specifically the Sundry notice submitted on 10/04/2011 (reference COGCC document number: 2216381). The narrative details what closure, and background samples were taken, where they were taken and for what purpose.

Post Reclaim Samples 11/04/2009 (L430535, Accutest T41652)

- 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). All five initial post reclaim samples were collected within a 5'x5' area. Oxy speculates that initial post reclaim samples were concentrated in this area as this was the low point of the pit and theoretically any contamination would have settled in this area. Also, it was typical of reserve pits to be segregated into a fluids area and a solids area. The 5'x5' area should correspond to the fluids area. The initial post reclaim samples were taken between 0-12 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 L430535 analyzed the majority of the 910-1 constituents and the Accutest T41652 lab sample analyzed Barium and Boron. The initial post reclaim sample date was 11/04/2009 and the Sample ID from the data tabulation is Stites 20-8 Post Rec 0-12 IN. These samples are shown on the Sampling map as black dots and are referenced in the legend as Post Reclaim Samples (11/04/2009). The lab data reports for these samples are attached. The sample values can be found on lab report L430535 on pages 2 and 3 and on Accutest T41652 pages 5 and 6 as sample ID Stites 20-8 Post Rec.
- Initial Post Reclaim values showed elevated concentrations for SAR, pH, Arsenic (As), Barium, and Boron.

Background Samples 11/04/2009 (L430535)

- An initial five point composite background sample was collected from various undisturbed locations around the pad, which was consistent with practices conducted at time of closure (2009). All initial background samples were collected at various depths between 0-6 inches. The background samples are represented in the tabulated data spreadsheet in the third column and labeled as "Background" for Sample Type on the attached table. The background sample date was 11/04/2009 and the Sample ID from the data tabulation is Stites 20-8 BG 0-6 IN. These samples are shown on the Sampling map as Fuchsia dots and are referenced in the legend as Background Samples (11/04/2009). The lab data report for these samples is attached. The sample values can be found on lab report L430535 on page 4 as sample ID Stites 20-8 BG.
- Initial background samples were tested only for EC, SAR, pH, and As, as was consistent with practices conducted at time of closure (2009). All analytes were found to be below the COGCC's table 910-1 allowable concentrations.

Fill Samples 11/30/2009 (L434452, T43419)

- Oxy backfilled the pit with stockpiled native clean material to pad grade (6-8 feet). A five point composite sample was taken of the fill and analyzed only for the analyte exceedances found in the initial post reclaim samples. Samples were collected between 0-12 IN. The fill material was also serving as a cap for the elevated values of SAR and pH found in the initial post reclaim values. The fill material was sampled for Boron and Barium to possibly justify burying the contamination below 6-8 feet of clean fill. The fill material was found to be within the COGCC Table 910-1 allowable concentrations. As Boron and Barium are not contaminants that are allowed to be buried only, Oxy decided to wait for spring and better weather to re-sample the pit bottom. The fill samples are represented in the tabulated data spreadsheet in the fourth and fifth columns and labeled as "Fill" for Sample Type on the attached table. Note that there are two "Fill" sample columns; this is due to the fact that two separate labs were used to process the samples. Lab sample L434452 analyzed for SAR and pH and the Accutest T43419 lab sample analyzed Barium and Boron. The fill sample date was 11/30/2009 and the Sample ID from the data tabulation is Stites 20-8 Fill 0-12 IN. These samples are shown on the Sampling map as yellow dots and are referenced in the legend as Fill Samples (11/30/2009). The lab data reports for these samples are attached. The sample values can be found on lab report L434452 on page 2 and on Accutest T43419 pages 5 and 6 as sample ID Stites 20-8 Fill
- Fill samples were tested only for SAR, pH, Barium and Boron, as these were the only analyte exceedances found in the initial post reclaim samples. All analytes were found to be below the COGCC's table 910-1 allowable concentrations.

Post Reclaim re-sample 05/06/2010 (L458028)

- Based on the initial post reclaim composite sample Barium and As analyte exceedances found, Oxy mobilized an excavator to dig back down to the low point of the mixed pit bottom to collect a 5 point composite post reclaim re-sample (05/06/2010). As there were no other analyte exceedances found in the initial post reclaim samples, Oxy re-sampled for Barium and As only. Oxy suspected the elevated Barium concentration to be either a lab error or sampling error. Boron was not re-sampled for, as samples were taken after the 2008 amended rules went into effect, the COGCC does not require pit contents to meet a Boron MCL. The Post Reclaim re-sample is represented in the tabulated data spreadsheet in the sixth column and labeled as "Post Reclaim" for Sample Type on the attached table. The Post Reclaim re-sample date was 05/06/2010 and the Sample ID from the data tabulation is Stites 20-8 Post Rec 6-8 FT (Re-sample). These samples are shown on the Sampling map as green dots and are referenced in the legend as Post Reclaim re-samples (05/06/2010). The lab data report for these samples is attached. The sample values can be found on lab report L458028 on page 2 as sample ID, Stites 20-8 Post Rec 6-8 FT.
- Sample results yielded an elevated concentration of As, but Barium was found to be within the COGCC's table 910-1 allowable concentrations.

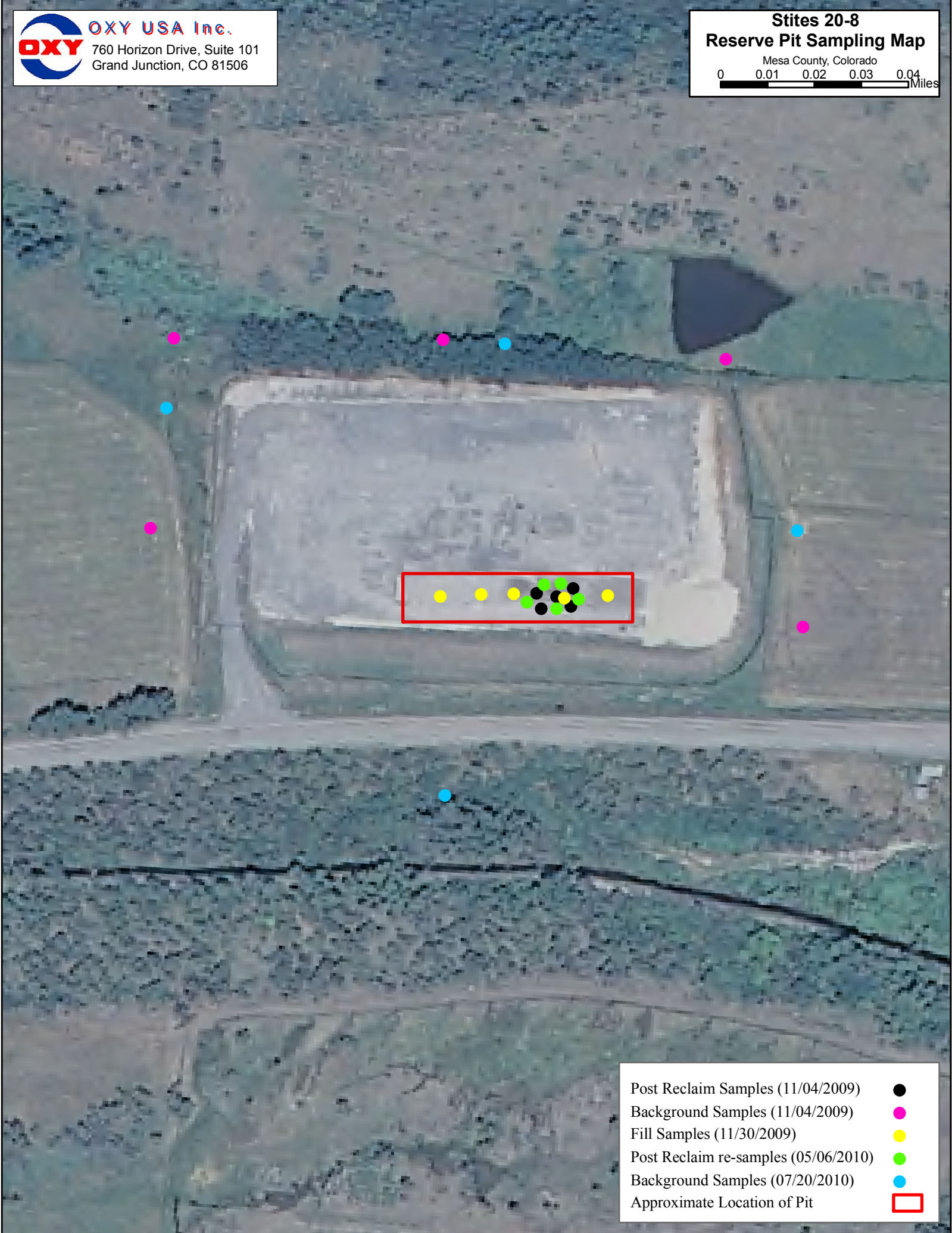
Background Samples 07/20/2010 (L469802)

- In effort to clear Post Reclaim As concentrations, Oxy collected four random grab samples from native undisturbed areas around the pad at depths of 0-6 inches (07/20/2010). The Background samples are represented in the tabulated data spreadsheet in the 7-10th columns and labeled as "Background" for Sample Type on the attached table. The Background sample date was 07/20/2010 and the

Sample ID's from the data tabulation are Stites 20-8 BG-N 0-6 IN, Stites 20-8 BG-E 0-6 IN, Stites 20-8 BG-S 0-6 IN, Stites 20-8 BG-W 0-6 IN. These samples are shown on the Sampling map as blue dots and are referenced in the legend as Background Samples (07/20/2010). The lab data report for these samples is attached. The sample values can be found on lab report L469802 on pages 2-5. Sample ID's in the lab report are; Stites 20-8 BG-N 0-6 IN, Stites 20-8 BG-E 0-6 IN, Stites 20-8 BG-S 0-6 IN, Stites 20-8 BG-W 0-6 IN.

- This sampling effort yielded background As concentrations above those found in Post Reclaim samples (11/04/2009 & 05/06/2010).

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.



- Post Reclaim Samples (11/04/2009) ●
- Background Samples (11/04/2009) ●
- Fill Samples (11/30/2009) ●
- Post Reclaim re-samples (05/06/2010) ●
- Background Samples (07/20/2010) ●
- Approximate Location of Pit □



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

Grand Junction, CO 81506

Report Summary

Wednesday November 11, 2009

Report Number: L430535

Samples Received: 11/05/09

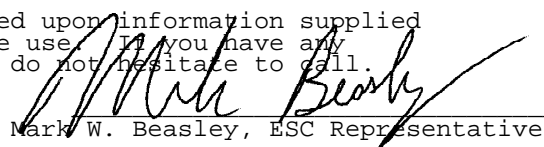
Client Project:

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


Mark W. Beasley, ESC Representative

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

2 Samples Reported: 11/11/09 11:23 Printed: 11/11/09 11:24

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REPORT OF ANALYSIS

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

November 11, 2009

Date Received : November 05, 2009
Description : Pit Reclaims - Collbran

Sample ID : STITES 20-8 POST REC

Collected By : Brett Kennedy
Collection Date : 11/04/09 12:35

ESC Sample # : L430535-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	0.36	0.10	2.0	mg/kg	J	3060A/7	11/07/09	1
ORP	81.			mV		2580	11/10/09	1
pH	11.			su		9045D	11/06/09	1
Sodium Adsorption Ratio	25.					Calc.	11/04/09	1
Specific Conductance	2300			umhos/cm		9050A Mo	11/09/09	1
Mercury	0.013	0.0025	0.020	mg/kg	J	7471	11/09/09	1
Arsenic	2.7	0.32	1.0	mg/kg		6010B	11/09/09	1
Cadmium	0.29	0.040	0.25	mg/kg		6010B	11/09/09	1
Chromium	12.	0.085	0.50	mg/kg		6010B	11/09/09	1
Copper	21.	0.21	1.0	mg/kg		6010B	11/09/09	1
Lead	6.8	0.090	0.25	mg/kg		6010B	11/09/09	1
Nickel	11.	0.26	1.0	mg/kg		6010B	11/09/09	1
Selenium	U	0.32	1.0	mg/kg		6010B	11/09/09	1
Silver	U	0.16	0.50	mg/kg		6010B	11/09/09	1
Zinc	40.	0.34	1.5	mg/kg		6010B	11/09/09	1
Benzene	0.0031	0.00090	0.0025	mg/kg		8021/80	11/10/09	5
Toluene	0.0077	0.0015	0.025	mg/kg	J	8021/80	11/10/09	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	11/10/09	5
Total Xylene	0.0087	0.0028	0.0075	mg/kg		8021/80	11/10/09	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	11/10/09	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.2			% Rec.		8021/80	11/10/09	5
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	11/10/09	5
TPH (GC/FID) High Fraction	23.	1.3	4.0	mg/kg		3546/DR	11/07/09	1
Surrogate recovery(%)								
o-Terphenyl	76.0			% Rec.		3546/DR	11/07/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	11/06/09	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	11/06/09	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	11/06/09	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	11/06/09	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	11/06/09	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	11/06/09	1
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	11/06/09	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: 11/11/09 11:23 Printed: 11/11/09 11:24
L430535-01 (PH) - 11@19.6c



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REPORT OF ANALYSIS

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

November 11, 2009

Date Received : November 05, 2009
Description : Pit Reclaims - Collbran

Sample ID : STITES 20-8 POST REC

Collected By : Brett Kennedy
Collection Date : 11/04/09 12:35

ESC Sample # : L430535-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	11/06/09	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	11/06/09	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	11/06/09	1
Fluoranthene	U	0.0079	0.033	mg/kg		8270C	11/06/09	1
Fluorene	0.030	0.0095	0.033	mg/kg	J	8270C	11/06/09	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	11/06/09	1
Naphthalene	0.12	0.016	0.033	mg/kg		8270C	11/06/09	1
Phenanthrene	0.057	0.0073	0.033	mg/kg		8270C	11/06/09	1
Pyrene	U	0.0089	0.033	mg/kg		8270C	11/06/09	1
Surrogate Recovery								
Nitrobenzene-d5	59.8			% Rec.		8270C	11/06/09	1
2-Fluorobiphenyl	63.4			% Rec.		8270C	11/06/09	1
p-Terphenyl-d14	59.4			% Rec.		8270C	11/06/09	1

U = ND (Not Detected)

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Reported: 11/11/09 11:23 Printed: 11/11/09 11:24
L430535-01 (PH) - 11@19.6c



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REPORT OF ANALYSIS

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

November 11, 2009

Date Received : November 05, 2009
Description : Pit Reclaims -Collbran

Sample ID : STITES 20-8 BG

Collected By : Brett Kennedy
Collection Date : 11/04/09 13:00

ESC Sample # : L430535-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
pH	7.9			su		9045D	11/06/09	1
Sodium Adsorption Ratio	6.7					Calc.	11/04/09	1
Specific Conductance	410			umhos/cm		9050AMo	11/09/09	1
Arsenic	U	0.32	1.0	mg/kg		6010B	11/09/09	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: 11/11/09 11:23 Printed: 11/11/09 11:24
L430535-02 (PH) - 7.9@19.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L430535-01	WG449893	SAMP	Toluene	R990589	J
	WG449557	SAMP	Chromium, Hexavalent	R986828	J
	WG449246	SAMP	Mercury	R988748	J
	WG449368	SAMP	Fluorene	R986669	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.

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 Remarks For Samples Printed
11/11/09 at 11:24:36

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L430535-01 Account: OXYGJCO Received: 11/05/09 09:00 Due Date: 11/12/09 00:00 RPT Date: 11/11/09 11:23

Sample: L430535-02 Account: OXYGJCO Received: 11/05/09 09:00 Due Date: 11/12/09 00:00 RPT Date: 11/11/09 11:23

Company Name/Address:

OXY USA - Grand Junction, CO760 Horizon Dr., Ste. 101
Grand Junction, CO 81506

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

Prepared by:

F161**ENVIRONMENTAL
SCIENCE CORP.**12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to:

Brett Kennedy

Email to:

brett.kennedy@oxy.com

Project

Description: *Pit Reclaims - Colliery*City/State
Collected

Phone: (970) 263-3601

Client Project #:

ESC Key:

FAX:

Collected by:

Brett Kennedy

Site/Facility ID#:

P.O. #:

Collected by (signature):

Brett Kennedy

Immediately

Packed on Ice N ☒**Rush?** (Lab MUST Be Notified)☐ Same Day..... 200%☐ Next Day..... 100%☐ Two Day..... 50%☐ Three Day..... 25%

Date Results Needed:

Email? ☐ No ☒ YesFAX? ☒ No ☐ Yes

No.

of

Cntrs

Sample ID

Comp/Grab

Matrix*

Depth

Date

Time

*Stites 20-8 Post Rec**Comp**SS**0-6"**11/04/09**1235**2**Stites 20-8 BG**↓**↓**↓**↓**1300**1**BTX*
6RO/RO
SAR, EC, PH
As
Ca, Co, Cu, Pb, Hg, Ni, Se, Ag, Zn
CR VI
*PAH*CoCode: **OXYGJCO** (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

*L430535-21**L43053502**Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____

Temp _____

Remarks:

Flow _____

Other _____

9632 6257 0277

Relinquished by: (Signature)

Brett Kennedy

Date:

11/04/09

Time:

1600

Received by: (Signature)

*Philip Duckett*Samples returned via: ☐ UPS☐ FedEx ☐ Courier ☐

Condition:

(lab use only)

*OK*CoC Seals Intact ☐ Y ☒ N ☒ NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Philip Duckett

Temp:

44

Bottles Received:

3

Date:

11-5-09

Time:

6200

pH Checked:

NCF



11/13/09

Technical Report for

Oxy USA Inc.

Colibran - Pit Reclaims

Accutest Job Number: T41652

Sampling Date: 11/04/09

Report to:

Oxy USA Inc.
760 Horizon DR, Suite 101
Grand Junction, CO 81506
Brett_Kennedy@oxy.com

ATTN: Brett Kennedy

Total number of pages in report: 21



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Marianne Walker 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

Oxy USA Inc.

Job No: T41652

Colibran - Pit Reclaims

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T41652-1	11/04/09	12:35 BK	11/06/09	SO	Soil	STITES 20-8 POST REC
T41652-1A	11/04/09	12:35 BK	11/06/09	SO	Soil	STITES 20-8 POST REC

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	STITES 20-8 POST REC	Date Sampled:	11/04/09
Lab Sample ID:	T41652-1	Date Received:	11/06/09
Matrix:	SO - Soil	Percent Solids:	66.0
Project:	Colibran - Pit Reclaims		

Total True Barium Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	16800	300	mg/kg	20	11/09/09	11/13/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4393
(2) Prep QC Batch: MP10613

RL = Reporting Limit

Report of Analysis

Client Sample ID:	STITES 20-8 POST REC	Date Sampled:	11/04/09
Lab Sample ID:	T41652-1A	Date Received:	11/06/09
Matrix:	SO - Soil	Percent Solids:	66.0
Project:	Colibran - Pit Reclaims		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	2.50	0.20	mg/l	1	11/09/09	11/13/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4392
(2) Prep QC Batch: MP10614

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

3.1 3

COOLER INFORMATION

- CHAIN OF CUSTODY

- ### SAMPLE INFORMATION

- ### TRIP BLANK INFORMATION

- Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

TECHNICIAN SIGNATURE/DATE:

INFORMATION AND SAMPLE LABELING VERIFIED BY:

CORRECTIVE ACTIONS

Client Representative Notified:

Date:

By Accutest Representative:

Via: Phone Email

Client Instructions:

SAMPLE RECEIPT LOG

JOB #: T41652 DATE/TIME RECEIVED: 11-6-9 900

CLIENT: OX4 INITIALS: EC

[illegible]

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-in #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

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Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10613
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/09/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.82	2.2		
Antimony	0.50	.11	.14		
Arsenic	0.50	.089	.1		
Barium	10	.007	.03	0.16	<10
Beryllium	0.25	.0055	.01		
Boron	5.0	.054	.11		
Cadmium	0.25	.013	.05		
Calcium	250	.27	.86		
Chromium	0.50	.055	.035		
Cobalt	2.5	.025	.09		
Copper	1.3	.029	.065		
Iron	5.0	.65	1.1		
Lead	0.50	.079	.2		
Magnesium	250	.34	.58		
Manganese	0.75	.01	.035		
Molybdenum	0.50	.048	.075		
Nickel	2.0	.048	.065		
Potassium	250	2.7	16		
Selenium	0.50	.16	.12		
Silver	0.50	.043	.04		
Sodium	250	6.5	13		
Strontium	1.0	.0085	.025		
Thallium	0.50	.16	.25		
Tin	1.0	.09	.12		
Titanium	1.0	.015	.045		
Vanadium	2.5	.03	.06		
Zinc	1.0	.025	.2		

Associated samples MP10613: T41652-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibrán - Pit Reclaims

QC Batch ID: MP10613
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/09/09

11/09/09

Metal	T41327-1AB Original DUP		RPD	QC Limits	T41327-1AB Original MS		Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium	1630	1610	1.2	0-20	1630	1590	23.5	-170.4(a	80-120
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP10613: T41652-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10613
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/09/09

Metal	T41327-LAB Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	1630	1580	23	-217.5(a	0.6	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10613: T41652-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10613
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/09/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	19.5	20	97.5	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10613: T41652-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

4.1.3
4

SERIAL DILUTION RESULTS SUMMARY

Login Number: T41652
 Account: OXYCOGJ - Oxy USA Inc.
 Project: Colibran - Pit Reclaims

QC Batch ID: MP10613
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 11/09/09

Metal	T41327-1AB			QC	
	Original	SDL 5:25	%DIF	Limits	
Aluminum					
Antimony					
Arsenic					
Barium	27100	28200	3.9	0-10	
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP10613: T41652-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10614
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/09/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	400	33	34		
Antimony	10	4.5	6		
Arsenic	10	3.5	4		
Barium	400	.28	5.4		
Beryllium	10	.22	.4		
Boron	200	2.2	4.2	121	<200
Cadmium	8.0	.5	.6		
Calcium	10000	11	70		
Chromium	20	2.2	3.8		
Cobalt	100	1	1.6		
Copper	50	1.2	12		
Iron	200	26	26		
Lead	6.0	3.2	3.4		
Magnesium	10000	13	16		
Manganese	30	.4	15		
Molybdenum	20	1.9	2.6		
Nickel	80	1.9	6.4		
Potassium	10000	110	110		
Selenium	10	6.5	6.4		
Silver	20	1.7	1.6		
Sodium	10000	260	270		
Strontium	40	.34	.8		
Thallium	20	6.5	5.2		
Tin	40	3.6	5.8		
Titanium	40	.6	.6		
Vanadium	100	1.2	1.2		
Zinc	40	.98	8.2		

Associated samples MP10614: T41652-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10614
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/09/09

11/09/09

Metal	T41327-1AA Original	DUP	RPD	QC Limits	T41327-1AA Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	3090	3060	1.0	0-20	3090	5430	1000	120.9	80-120
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP10614: T41652-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10614
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/09/09

Metal	T41327-1AA Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron	3090	5530	1000	127.6	1.8	20
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10614: T41652-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T41652
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10614
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/09/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	2200	1000	109.9	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10614: T41652-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

4.2.3
4

SERIAL DILUTION RESULTS SUMMARY

Login Number: T41652
 Account: OXYCOGJ - Oxy USA Inc.
 Project: Colibran - Pit Reclaims

QC Batch ID: MP10614
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 11/09/09

Metal	T41327-1AA		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	1550	1520	2.1	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10614: T41652-1A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

4.2.4
4



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

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

Grand Junction, CO 81506

Report Summary

Monday December 07, 2009

Report Number: L434452

Samples Received: 12/02/09

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


Craig Cothron, ESC Representative

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

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.

1 Samples Reported: 12/07/09 10:26 Printed: 12/07/09 10:26

Page 1 of 2



12065 Lebanon Rd.
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

December 07, 2009

Date Received : December 02, 2009
Description : Pit Reclaims - Collbran

Sample ID : STITES 20-8 FILL

Collected By : Brett Kennedy
Collection Date : 11/30/09 16:30

ESC Sample # : L434452-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.7		su	9045D	12/03/09	1
Sodium Adsorption Ratio	2.4			Calc.	12/04/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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.

Reported: 12/07/09 10:26 Printed: 12/07/09 10:26
L434452-01 (PH) - 8.7@16.8c

Summary of Remarks For Samples Printed
12/07/09 at 10:26:45

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L434452-01 Account: OXYGJCO Received: 12/02/09 09:00 Due Date: 12/09/09 00:00 RPT Date: 12/07/09 10:26

Company Name/Address: OXY USA - Grand Junction, CO 760 Horizon Dr., Ste. 101 Grand Junction, CO 81506				Alternate billing information:				Analysis/Container/Preservative				C175 Date of Custody Date <u>1</u> of <u>1</u>	
Report to: <u>Brett Kennedy</u>				Email to: <u>brett.kennedy@oxy.com</u>				PH SAR					
Project Description: <u>Pit Reclaiming - Colliery</u>				City/State Collected: <u> </u>									
Phone: (970) 263-3601 FAX: <u> </u>		Client Project #: <u> </u>		ESC Key: <u> </u>									
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>									
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u> </u>		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs							
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time					Remarks/Contaminant	Sample # (lab only)	
Stikes 20-8 Fill		Comp	SS	0-6"	11/30/09	1630	1					2934452-01	

Prepared by:

ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

CoCode: **OXYGJCO** (lab use only)

Template/Prelogin

Shipped Via:

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

pH _____ Temp _____

Flow _____ Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>		Date: <u>12/01/09</u> 11/30/09	Time: <u>0810</u> 1530	Received by: (Signature) <u>[Signature]</u>		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Condition: (lab use only) <u>OK</u>	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: <u>3.8°C</u>	Bottles Received: <u>1902</u>	CoC Seals Intact <u> </u> Y <u> </u> N <u> </u> NA <u> </u>	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>J. Filler</u>		Date: <u>12-01-09</u>	Time: <u>0900</u>	pH Checked: NCF:	



12/08/09

Technical Report for

Oxy USA Inc.

Colibran - Pit Reclaims

Accutest Job Number: T43419

Sampling Date: 11/30/09

Report to:

Oxy USA Inc.
760 Horizon DR, Suite 101
Grand Junction, CO 81506
Brett_Kennedy@oxy.com

ATTN: Brett Kennedy

Total number of pages in report: **21**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Canevaro
Laboratory Director

Client Service contact: Marianne Walker 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

Oxy USA Inc.

Job No: T43419

Colibran - Pit Reclaims

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
T43419-1	11/30/09	16:30 BK	12/02/09	SO	Soil	STITES 20-8 FILL
T43419-1A	11/30/09	16:30 BK	12/02/09	SO	Soil	STITES 20-8 FILL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	STITES 20-8 FILL	Date Sampled:	11/30/09
Lab Sample ID:	T43419-1	Date Received:	12/02/09
Matrix:	SO - Soil	Percent Solids:	85.8
Project:	Colibran - Pit Reclaims		

Total True Barium Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1090	11	mg/kg	1	12/04/09	12/07/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4433
(2) Prep QC Batch: MP10776

RL = Reporting Limit

Report of Analysis

Client Sample ID:	STITES 20-8 FILL	Date Sampled:	11/30/09
Lab Sample ID:	T43419-1A	Date Received:	12/02/09
Matrix:	SO - Soil	Percent Solids:	85.8
Project:	Colibran - Pit Reclaims		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Boron	0.271	0.20	mg/l	1	12/04/09	12/06/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4432
(2) Prep QC Batch: MP10774

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

FED-EX Tracking # Accutest Quote #				Bottle Order Control # Accutest Job # 743419			
Client / Reporting Information Company Name: OXY USA INC Address: 760 Horizon Dr., Ste. 101 City: Grand Junction, CO State: CO Zip: 81506 Project Contact: Brett Kennedy E-mail: _____ Phone #: 970-263-3601 Samplers Name: Brett Kennedy				Project Information Project Name: <i>Pit Reclaims - Colliery</i> Street: _____ City: _____ State: _____ Project #: _____ Client Purchase Order #: _____			
Requested Analysis 8260 <input type="checkbox"/> 8261 <input type="checkbox"/> 8262 <input type="checkbox"/> 8263 <input type="checkbox"/> 8264 <input type="checkbox"/> 8265 <input type="checkbox"/> 8266 <input type="checkbox"/> 8267 <input type="checkbox"/> 8268 <input type="checkbox"/> 8269 <input type="checkbox"/> 8270 <input type="checkbox"/> 8271 <input type="checkbox"/> 8272 <input type="checkbox"/> 8273 <input type="checkbox"/> 8274 <input type="checkbox"/> 8275 <input type="checkbox"/> 8276 <input type="checkbox"/> 8277 <input type="checkbox"/> 8278 <input type="checkbox"/> 8279 <input type="checkbox"/> 8280 <input type="checkbox"/> 8281 <input type="checkbox"/> 8282 <input type="checkbox"/> 8283 <input type="checkbox"/> 8284 <input type="checkbox"/> 8285 <input type="checkbox"/> 8286 <input type="checkbox"/> 8287 <input type="checkbox"/> 8288 <input type="checkbox"/> 8289 <input type="checkbox"/> 8290 <input type="checkbox"/> 8291 <input type="checkbox"/> 8292 <input 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SAMPLE INSPECTION FORM

Accutest Job Number: T43419 Client: Oxy Date/Time Received: 12/2/09 0900
of Coolers Received: 1 Thermometer #: 1P-1 Temperature Adjustment Factor: +0.4
Cooler Temps: #1: 15.6 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
Method of Delivery: ☒ ~~FEDTEX~~ UPS Accutest Courier Greyhound Delivery Other
Airbill Numbers: _____

COOLER INFORMATION

- ☐ Custody seal missing or not intact
- ☐ Temperature criteria not met
- ☐ Wet ice received in cooler

CHAIN OF CUSTODY

- ☐ Chain of Custody not received
- ☐ Sample D/T unclear or missing
- ☐ Analyses unclear or missing
- ☐ COC not properly executed

SAMPLE INFORMATION

- ☐ Sample containers received broken
- ☐ VOC vials have headspace
- ☐ Sample labels missing or illegible
- ☐ ID on COC does not match label(s)
- ☐ D/T on COC does not match label(s)
- ☐ Sample/Bottles rcvd but no analysis on COC
- ☐ Sample listed on COC, but not received
- ☐ Bottles missing for requested analysis
- ☐ Insufficient volume for analysis
- ☐ Sample received improperly preserved

TRIP BLANK INFORMATION

- ☐ Trip Blank on COC but not received
- ☐ Trip Blank received but not on COC
- ☐ Trip Blank not intact
- ☐ Received Water Trip Blank
- ☐ Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

1. No cooler

TECHNICIAN SIGNATURE/DATE: [Signature]

INFORMATION AND SAMPLE LABELING VERIFIED BY: GL 12.29

CORRECTIVE ACTIONS

Client Representative Notified: _____

Date: _____

By Accutest Representative: _____

Via: Phone Email

Client Instructions: _____

T43419: Chain of Custody

Page 2 of 3

3.1 3

CLIENT: OXY INITIALS: FF

Rev 8/13/01 ewp

T43419: Chain of Custody
Page 3 of 3



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10774
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/04/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	400	33	34		
Antimony	10	4.5	6		
Arsenic	10	3.5	4		
Barium	400	.28	5.4		
Beryllium	10	.22	.4		
Boron	200	2.2	4.2	-12	<200
Cadmium	8.0	.5	.6		
Calcium	10000	11	70		
Chromium	20	2.2	3.8		
Cobalt	100	1	1.6		
Copper	50	1.2	12		
Iron	200	26	26		
Lead	6.0	3.2	3.4		
Magnesium	10000	13	16		
Manganese	30	.4	15		
Molybdenum	20	1.9	2.6		
Nickel	80	1.9	6.4		
Potassium	10000	110	110		
Selenium	10	6.5	6.4		
Silver	20	1.7	1.6		
Sodium	10000	260	270		
Strontium	40	.34	.8		
Thallium	20	6.5	5.2		
Tin	40	3.6	5.8		
Titanium	40	.6	.6		
Vanadium	100	1.2	1.2		
Zinc	40	.98	8.2		

Associated samples MP10774: T43419-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T43419
 Account: OXYCOGJ - Oxy USA Inc.
 Project: Colibran - Pit Reclaims

QC Batch ID: MP10774
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/04/09

12/04/09

Metal	T42643-1A Original	DUP	RPD	QC Limits	T42643-1A Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	6260	6290	0.5	0-20	6260	8950	1000	135.8N	80-120
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP10774: T43419-1A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10774
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/04/09

Metal	T42643-1A Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron	6260	8540	1000	110.8	4.7	20
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10774: T43419-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10774
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/04/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	1910	1000	95.5	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10774: T43419-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

4.1.3
4

SERIAL DILUTION RESULTS SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10774
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/04/09

Metal	T42643-1A		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	3170	3030	4.5	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10774: T43419-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10776
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/04/09

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.82	2.2		
Antimony	0.50	.11	.14		
Arsenic	0.50	.089	.1		
Barium	10	.007	.03	2.0	<10
Beryllium	0.25	.0055	.01		
Boron	5.0	.054	.11		
Cadmium	0.25	.013	.05		
Calcium	250	.27	.86		
Chromium	0.50	.055	.035		
Cobalt	2.5	.025	.09		
Copper	1.3	.029	.065		
Iron	5.0	.65	1.1		
Lead	0.50	.079	.2		
Magnesium	250	.34	.58		
Manganese	0.75	.01	.035		
Molybdenum	0.50	.048	.075		
Nickel	2.0	.048	.065		
Potassium	250	2.7	16		
Selenium	0.50	.16	.12		
Silver	0.50	.043	.04		
Sodium	250	6.5	13		
Strontium	1.0	.0085	.025		
Thallium	0.50	.16	.25		
Tin	1.0	.09	.12		
Titanium	1.0	.015	.045		
Vanadium	2.5	.03	.06		
Zinc	1.0	.025	.2		

Associated samples MP10776: T43419-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibrán - Pit Reclaims

QC Batch ID: MP10776
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/04/09

12/04/09

Metal	T43190-1B Original DUP		RPD	QC Limits	T43190-1B Original MS		Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium	463	467	0.9	0-20	463	518	24.7	222.6(a)	80-120
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc									

Associated samples MP10776: T43419-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10776
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/04/09

Metal	T43190-1B Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium	463	449	24.2	-57.7(a)	14.3	20
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10776: T43419-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10776
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/04/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	21.9	20	109.5	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10776: T43419-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

4.2.3
4

SERIAL DILUTION RESULTS SUMMARY

Login Number: T43419
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10776
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/04/09

Metal	T43190-1B		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium	7670	8550	11.5*(a)	0-10
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP10776: T43419-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.



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

Report Summary

Tuesday May 11, 2010

Report Number: L458028

Samples Received: 05/08/10

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:

Mark W. Beasley , ESC Representative

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, NV - TN000032008A

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REPORT OF ANALYSIS

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

May 11, 2010

Date Received : May 08, 2010
Description : Pit Reclaims - Collbran
Sample ID : STITES 20-8 POST REC 6-8 FT
Collected By : Brett Kennedy
Collection Date : 05/06/10 10:18

ESC Sample # : L458028-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.2	0.32	1.0	mg/kg		6010B	05/11/10	1
Barium	2900	0.050	0.25	mg/kg		6010B	05/11/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 05/11/10 14:26 Printed: 05/11/10 14:27

Summary of Remarks For Samples Printed
05/11/10 at 14:27:04

TSR Signing Reports: 134
R4 - Rush: Three Day

Sample: L458028-01 Account: OXYGJCO Received: 05/08/10 09:00 Due Date: 05/12/10 00:00 RPT Date: 05/11/10 14:26

Company Name/Address: OXY USA - Grand Junction, CO 760 Horizon Dr.. Ste. 101 Grand Junction.CO 81506			Alternate billing information:			Analysis/Container/Preservative				Chain of Custody Page <u>1</u> of <u>1</u> Prepared by: D239 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>			As.Ba				CoCode: OXYGJCO (lab use only) Template/Prelogin Shipped Via:	
Project Description: <u>Pit Reclaims - Collibran</u>			City/State Collected: <u> </u>								
Phone: (970) 263-3601		Client Project #: <u> </u>		ESC Key: <u> </u>							
FAX: <u> </u>		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>							
Collected by: <u>Brett Kennedy</u>											
Collected by (signature): <u>Brett Kennedy</u>		<input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) <u> </u> Same Day..... 200% <u> </u> Next Day..... 100% <u> </u> Two Day..... 50% <input checked="" type="checkbox"/> Three Day..... 25%		Date Results Needed: Email? <u> </u> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <u> </u> Yes		No. of Cntrs		Remarks/Contaminant LYS8028-1			
Immediately Packed on Ice N <u> </u> Y <input checked="" type="checkbox"/>											
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time			Sample # (lab only)		
<u>Stites 20-8 Post Rec</u>		<u>Comp</u>	<u>SS</u>	<u>6-8'</u>	<u>5/6/10</u>	<u>1018</u>	<u>1</u>				

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

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>		Date: <u>5/7/10</u>	Time: <u>1600</u>	Received by: (Signature) <u>Phil Ro</u>		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <u>O/K</u>	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: <u>3.4'</u>		Bottles Received: <u>1402</u>	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: <u>5-8-10</u>		Time: <u>0916</u>	
								CoC Seals Intact <u> </u> Y <u> </u> N <u> </u>	
								pH Checked: <u> </u> NCF: <u> </u>	

8681 21797676



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

Report Summary

Friday July 23, 2010

Report Number: L469802

Samples Received: 07/21/10

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:

Mark W. Beasley , ESC Representative

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, NV - TN000032008A

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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 23, 2010

Date Received : July 21, 2010
Description : Pit Reclaims - Collbran
Sample ID : STITES 20-8 BG-N 0-6 IN
Collected By : Brett Kennedy
Collection Date : 07/20/10 12:31

ESC Sample # : L469802-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	2.9	0.32	1.0	mg/kg		6010B	07/22/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 07/23/10 13:54 Printed: 07/23/10 13:54



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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 23, 2010

Date Received : July 21, 2010
Description : Pit Reclaims - Collbran
Sample ID : STITES 20-8 BG-E 0-6 IN
Collected By : Brett Kennedy
Collection Date : 07/20/10 12:41

ESC Sample # : L469802-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.2	0.32	1.0	mg/kg		6010B	07/22/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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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 23, 2010

Date Received : July 21, 2010
Description : Pit Reclaims - Collbran
Sample ID : STITES 20-8 BG-S 0-6 IN
Collected By : Brett Kennedy
Collection Date : 07/20/10 12:47

ESC Sample # : L469802-03

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	4.4	0.32	1.0	mg/kg		6010B	07/22/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 07/23/10 13:54 Printed: 07/23/10 13:54



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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 23, 2010

Date Received : July 21, 2010
Description : Pit Reclaims - Collbran
Sample ID : STITES 20-8 BG-W 0-6 IN
Collected By : Brett Kennedy
Collection Date : 07/20/10 12:25

ESC Sample # : L469802-04

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Arsenic	3.7	0.32	1.0	mg/kg		6010B	07/22/10	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: 07/23/10 13:54 Printed: 07/23/10 13:54

Summary of Remarks For Samples Printed
07/23/10 at 13:54:40

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L469802-01 Account: OXYGJCO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/23/10 13:54
Sample: L469802-02 Account: OXYGJCO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/23/10 13:54
Sample: L469802-03 Account: OXYGJCO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/23/10 13:54
Sample: L469802-04 Account: OXYGJCO Received: 07/21/10 09:00 Due Date: 07/28/10 00:00 RPT Date: 07/23/10 13:54

Company Name/Address: OXY USA Inc - Grand Junction, CO 760 Horizon Dr., Ste. 101 Grand Junction, CO 81506			Alternate billing information:			Analysis/Container/Preservative				Chain of Custody Page <u>1</u> of <u>1</u> Prepared by: D032  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 - Colbran</u>			City/State Collected: <u> </u>								
Phone: <u>(970) 263-3601</u>		Client Project #: <u> </u>		ESC Key: <u> </u>							
FAX: <u> </u>											
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>							
Collected by (signature): <u>Brett Kennedy</u> Immediately Packed on Ice N <u> </u> Y <u> </u>		<input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) <u> </u> Same Day.....200% <u> </u> Next Day.....100% <u> </u> Two Day.....50% <u> </u> Three Day.....25%		Date Results Needed: Email? <u> </u> No <u> </u> Yes FAX? <u> </u> No <u> </u> Yes		No. of Cntrs					
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time						
<u>Sticks 20-8 BG-N</u>	<u>grab</u>	<u>SS</u>	<u>0-6"</u>	<u>7/20/10</u>	<u>1231</u>	<u>1</u>	<u>✓</u>				
<u>Sticks 20-8 BG-E</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1241</u>	<u>1</u>	<u>✓</u>				
<u>Sticks 20-8 BG-S</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1247</u>	<u>1</u>	<u>✓</u>				
<u>Sticks 20-8 BG-W</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>1225</u>	<u>1</u>	<u>✓</u>				

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

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>7/20/10</u>	Time: <u>1635</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____	Condition: (lab use only) <u>OK</u>
	Relinquished by: (Signature) <u>[Signature]</u>	Date: <u> </u>	Time: <u> </u>	Received by: (Signature) <u>[Signature]</u>	Temp: <u>28°C</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date: <u> </u>	Time: <u> </u>	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>7-21-10</u>	Time: <u>0900</u>
				pH Checked: _____	NCF: _____

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