

Hidden Creek West Federal 14-14 Reserve Pit (Location ID: 334538; Document #: 2221038)
Reclamation and Closure Sampling Narrative

This is Oxy's updated Hidden Creek West Federal 14-14 reserve pit sampling narrative and is being provided in support of the Hidden Creek West Federal 14-14 Sundry Notice reserve pit closure documentation originally submitted on 11/14/2011 (reference COGCC document number 2221038). The narrative details what closure, and background samples were taken, and where they were taken and for what purpose.

Post Reclaim Samples 11/05/2009 (L430984, Accutest T41765)

- 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 L430984 analyzed the majority of the 910-1 constituents and the Accutest T41765 lab sample analyzed Barium and Boron. The initial post reclaim sample date was 11/05/2009 and the Sample ID from the data tabulation is Hidden Creek 1414 Post Rec 0-6 IN. These samples are shown on the Hidden Creek W. Fed. 14-14 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 L430984 on pages 3 and 4 and on Accutest T41765 pages 5 and 6 as sample ID Hidden Creek 1414 Post Rec 0-6 IN.
- Initial Post Reclaim values showed elevated concentrations for Arsenic (As).

Background Samples 11/05/2009 (L430984)

- 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 three point composite sample on 11/05/2009 from undisturbed locations around the pad at depths of 0-6 inches. The Composite background sample date was 11/05/2009 and can be found in the third column of the tabulated data. The Sample ID from the data tabulation is Hidden Creek 1414 BG 0-6 IN. These samples are shown on the Hidden Creek W. Fed. 14-14 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 L430984 on page 2 as sample ID Hidden Creek 1414 BG 0-6 IN.
- The sampling effort yielded background As concentrations above those found in Post Reclaim samples (11/05/2009).

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.

Pit Reclaims - Collbran

Pad #:	Hidden Creek 14-14
Sample Date:	11/5/2009
Clearance Achieved Date:	

Sample Identifications (mg/kg)

Lab Report #	L430984	T41765	L430984
Sample Date	11/5/2009	11/5/2009	11/5/2009
Sample Type	Post Reclaim	Post Reclaim	Background
Sample ID	Hidden Creek 1414 Post Rec 0-6 IN	Hidden Creek 1414 Post Rec	Hidden Creek 1414 BG 0-6 IN

Organics in Soil	MCL (mg/kg)			
TPH (GRO and DRO)	500	3.6		-
Benzene	0.17	<0.00090		-
Toluene	85	<0.0015		-
Ethylbenzene	100	<0.0013		-
Xylenes	175	<0.0028		-

Organics in Soil (PAH's)				
Acenaphthene	1000	<0.011		-
Anthracene	1000	<0.0093		-
Benzo(A)anthracene	0.22	<0.0011		-
Benzo(B)fluoranthene	0.22	<0.0078		-
Benzo(K)fluoranthene	2.2	<0.012		-
Benzo(A)pyrene	0.022	<0.0074		-
Chrysene	22	<0.0091		-
Dibenzo(A,H)anthracene	0.022	<0.011		-
Fluoranthene	1000	<0.0079		-
Flourene	1000	<0.0095		-
Indeno(1,2,3,C,D)pyrene	0.22	<0.011		-
Napthalene	23	<0.016		-
Pyrene	1000	<0.0089		-

Inorganics in Soil				
EC	<4 mmhos/cm or 2X background	0.190		0.240
SAR	<12	1.4		0.66
pH	6-9	7.8		7.7

Metals in Soils				
Arsenic	0.39	2.2		5.0
Barium	15000	NA	172	-
Boron (Hot Water Soluble)	2 (mg/L)	NA	0.517	-
Cadmium	70	0.4		-
Chromium	12000	18.0		-
Chromium VI	23	<0.10		-
Copper	3100	12.0		-
Lead	400	10.0		-
Mercury	23	0.023		-
Nickel	1600	14.0		-
Selenium	390	6.30		-
Silver	390	0.28		-
Zinc	23000	50.0		-



Pit Sample Locations ●
Background sample locations ●
Approximate Location of Pit



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

Friday November 13, 2009

Report Number: L430984

Samples Received: 11/06/09

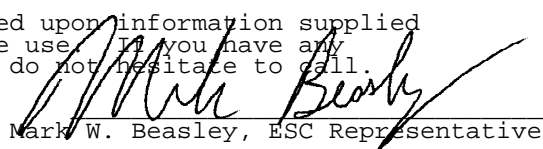
Client Project:

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
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.

2 Samples Reported: 11/13/09 17:17 Printed: 11/13/09 17:17

Page 1 of 6



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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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

November 13, 2009

Date Received : November 06, 2009
Description : Pit Reclaims - Collbran
Sample ID : HIDDEN CREEK 1414 BG 0-6IN
Collected By : Brett Kennedy
Collection Date : 11/05/09 12:34

ESC Sample # : L430984-01

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
pH	7.7			su		9045D	11/11/09	1
Sodium Adsorption Ratio	0.66					Calc.	11/10/09	1
Specific Conductance	240			umhos/cm		9050AMo	11/11/09	1
Arsenic	5.0	0.32	1.0	mg/kg		6010B	11/11/09	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: 11/13/09 17:17 Printed: 11/13/09 17:17

L430984-01 (PH) - 7.7@18.4c

REPORT OF ANALYSIS

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

November 13, 2009

Date Received : November 06, 2009
Description : Pit Reclaims - Collbran
Sample ID : HIDDEN CREEK 1414 POST REC 0-6IN
Collected By : Brett Kennedy
Collection Date : 11/05/09 12:45

ESC Sample # : L430984-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Chromium, Hexavalent	U	0.10	2.0	mg/kg	J6	3060A/7	11/07/09	1
ORP	120			mV		2580	11/10/09	1
pH	7.8			su		9045D	11/11/09	1
Sodium Adsorption Ratio	1.4					Calc.	11/10/09	1
Specific Conductance	190			umhos/cm		9050AMo	11/11/09	1
Mercury	0.023	0.0025	0.020	mg/kg		7471	11/12/09	1
Arsenic	2.2	0.32	1.0	mg/kg		6010B	11/11/09	1
Cadmium	0.38	0.040	0.25	mg/kg		6010B	11/11/09	1
Chromium	18.	0.085	0.50	mg/kg		6010B	11/11/09	1
Copper	12.	0.21	1.0	mg/kg		6010B	11/11/09	1
Lead	10.	0.090	0.25	mg/kg		6010B	11/11/09	1
Nickel	14.	0.26	1.0	mg/kg		6010B	11/11/09	1
Selenium	6.3	0.32	1.0	mg/kg		6010B	11/11/09	1
Silver	0.28	0.16	0.50	mg/kg	J	6010B	11/11/09	1
Zinc	50.	0.34	1.5	mg/kg		6010B	11/11/09	1
Benzene	U	0.00090	0.0025	mg/kg		8021/80	11/11/09	5
Toluene	U	0.0015	0.025	mg/kg		8021/80	11/11/09	5
Ethylbenzene	U	0.0013	0.0025	mg/kg		8021/80	11/11/09	5
Total Xylene	U	0.0028	0.0075	mg/kg		8021/80	11/11/09	5
TPH (GC/FID) Low Fraction	U	0.14	0.50	mg/kg		GRO	11/11/09	5
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.8			% Rec.		8021/80	11/11/09	5
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	11/11/09	5
TPH (GC/FID) High Fraction	3.6	1.3	4.0	mg/kg	J	3546/DR	11/10/09	1
Surrogate recovery(%)								
o-Terphenyl	54.9			% Rec.		3546/DR	11/10/09	1
Polynuclear Aromatic Hydrocarbons								
Anthracene	U	0.0093	0.033	mg/kg		8270C	11/11/09	1
Acenaphthene	U	0.011	0.033	mg/kg		8270C	11/11/09	1
Acenaphthylene	U	0.011	0.033	mg/kg		8270C	11/11/09	1
Benzo(a)anthracene	U	0.0077	0.033	mg/kg		8270C	11/11/09	1
Benzo(a)pyrene	U	0.0074	0.033	mg/kg		8270C	11/11/09	1
Benzo(b)fluoranthene	U	0.0078	0.033	mg/kg		8270C	11/11/09	1
Benzo(g,h,i)perylene	U	0.0095	0.033	mg/kg		8270C	11/11/09	1

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L430984-02 (PH) - 7.8@17.9c



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Est. 1970

REPORT OF ANALYSIS

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

November 13, 2009

Date Received : November 06, 2009
Description : Pit Reclaims - Collbran
Sample ID : HIDDEN CREEK 1414 POST REC 0-6IN
Collected By : Brett Kennedy
Collection Date : 11/05/09 12:45

ESC Sample # : L430984-02

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Benzo(k)fluoranthene	U	0.012	0.033	mg/kg		8270C	11/11/09	1
Chrysene	U	0.0091	0.033	mg/kg		8270C	11/11/09	1
Dibenz(a,h)anthracene	U	0.011	0.033	mg/kg		8270C	11/11/09	1
Fluoranthene	U	0.0079	0.033	mg/kg		8270C	11/11/09	1
Fluorene	U	0.0095	0.033	mg/kg		8270C	11/11/09	1
Indeno(1,2,3-cd)pyrene	U	0.011	0.033	mg/kg		8270C	11/11/09	1
Naphthalene	U	0.016	0.033	mg/kg	J3J4	8270C	11/11/09	1
Phenanthrene	U	0.0073	0.033	mg/kg		8270C	11/11/09	1
Pyrene	U	0.0089	0.033	mg/kg		8270C	11/11/09	1
Surrogate Recovery								
Nitrobenzene-d5	51.9			% Rec.		8270C	11/11/09	1
2-Fluorobiphenyl	89.4			% Rec.		8270C	11/11/09	1
p-Terphenyl-d14	96.0			% Rec.		8270C	11/11/09	1

U = ND (Not Detected)

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RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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Reported: 11/13/09 17:17 Printed: 11/13/09 17:17
L430984-02 (PH) - 7.8@17.9c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L430984-02	WG449670	SAMP	Silver	R991548	J
	WG449626	SAMP	TPH (GC/FID) High Fraction	R988952	J
	WG449557	SAMP	Chromium, Hexavalent	R986828	J6
	WG449624	SAMP	Naphthalene	R991651	J3J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J4	The associated batch QC was outside the established quality control range for accuracy.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

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
11/13/09 at 17:17:36

TSR Signing Reports: 134
R5 - Desired TAT

Sample: L430984-01 Account: OXYGJCO Received: 11/06/09 09:00 Due Date: 11/13/09 00:00 RPT Date: 11/13/09 17:17

Sample: L430984-02 Account: OXYGJCO Received: 11/06/09 09:00 Due Date: 11/13/09 00:00 RPT Date: 11/13/09 17:17

Company Name/Address: Oxy USA WTP LP - 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);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">601DRO</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAR/EC1 pH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">As</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C, DI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PAT</div> </div>				Chain of Custody Page 1 of 1							
Report to: <u>Brett Kennedy</u>				Email to: <u>brett-kennedy@oxy.com</u>				Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859 C169											
Project Description: <u>Pit Reclaims - Colibron</u>				City/State Collected: <u> </u>															
Phone: (970) 263-3601		Client Project #: <u> </u>		ESC Key: <u> </u>															
FAX: (970) 201-2305		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>															
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#: <u> </u>		P.O.#: <u> </u>															
Collected by (signature): 		<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? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs		CoCode: OXYWTPGJ (lab use only) Template/Prelogin Shipped Via:											
Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Sample ID		Comp/Grab		Matrix*		Depth		Date		Time		Remarks/Contaminant		Sample # (lab only)			
Hidden Creek 1414 B6		1amp		SS		0-6"		11/15/09		1234		1		✓		L430984-01			
Hidden Creek 1414 Post Koc		↓		↓		↓		↓		↓		1245		2		✓		02	

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

Remarks:

963262683142 Flow _____ Other _____

Relinquished by: (Signature) 		Date: <u>11/14/09</u>		Time: <u>1700</u>		Received by: (Signature)		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only)			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <u>5°C</u>		Bottles Received: <u>3-8oz</u>			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: <u>11/16/09</u>		Time: <u>0900</u>			
								CoC Seals Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		pH Checked:		NCF:	



11/17/09

Technical Report for

Oxy USA Inc.

Colibran - Pit Reclaims

Accutest Job Number: T41765

Sampling Date: 11/05/09

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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4.2: Prep QC MP10639: B 17



Sample Summary

Oxy USA Inc.

Job No: T41765

Colibran - Pit Reclaims

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
T41765-1	11/05/09	12:45	BK	11/09/09	SO	Soil	HIDDEN CREEK 141 POST REC
T41765-1A	11/05/09	12:45	BK	11/09/09	SO	Soil	HIDDEN CREEK 1414 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:	HIDDEN CREEK 141 POST REC			Date Sampled:	11/05/09
Lab Sample ID:	T41765-1			Date Received:	11/09/09
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	172	12	mg/kg	1	11/12/09	11/12/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4392
(2) Prep QC Batch: MP10638

RL = Reporting Limit

Report of Analysis

Client Sample ID:	HIDDEN CREEK 1414 POST REC			Date Sampled:	11/05/09
Lab Sample ID:	T41765-1A			Date Received:	11/09/09
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	0.517	0.20	mg/l	1	11/12/09	11/13/09 NS	SW846 6010B ¹	LADNR 29B ²

(1) Instrument QC Batch: MA4392
(2) Prep QC Batch: MP10639

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST Laboratories		2235 Route 130, Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480		FED-EX Tracking # _____		Bottle Order Control # _____	
		Accutest Quote # _____		Accutest Job # 741765			
Client / Reporting Information				Project Information			
Company Name OXY USA WTP LP			Project Name: Pit Reclaims - Collbran			<div style="display: flex; flex-direction: row;"> <div style="flex: 1;"> <input type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 8001 <input type="checkbox"/> 802 <input type="checkbox"/> 803 <input type="checkbox"/> 804 <input type="checkbox"/> 8261 <input type="checkbox"/> 825 <input type="checkbox"/> 8002 <input type="checkbox"/> 801 <input type="checkbox"/> 802 <input type="checkbox"/> 803 <input type="checkbox"/> 804 <input type="checkbox"/> 8262 <input type="checkbox"/> 824 <input type="checkbox"/> 8001 <input type="checkbox"/> 802 <input type="checkbox"/> 803 <input type="checkbox"/> 804 <input type="checkbox"/> 8263 <input type="checkbox"/> 825 <input type="checkbox"/> 8002 <input type="checkbox"/> 801 <input type="checkbox"/> 802 <input type="checkbox"/> 803 <input type="checkbox"/> 804 <input type="checkbox"/> 8264 <input type="checkbox"/> 824 <input type="checkbox"/> 8001 <input 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T41765: Chain of Custody

Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T41765 Client: OKY USA. WTP. Date/Time Received: 11/09/09 9:15
 # of Coolers Received: 1 Thermometer #: 121 Temperature Adjustment Factor: +0.4
 Cooler Temps: #1: 22.4 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other _____
 Airbill Numbers: 7970-8619-6040

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:

TECHNICIAN SIGNATURE/DATE: T. Claud

INFORMATION AND SAMPLE LABELING VERIFIED BY: [Signature] 11/9/09

CORRECTIVE ACTIONS

Client Representative Notified: _____

Date: _____

By Accutest Representative: _____

Via: Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement

T41765: Chain of Custody

Page 2 of 3

JOB #: T41765 DATE/TIME RECEIVED: 11/02/09 TC 9:15
CLIENT: OK4 INITIALS: TC

[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 ewm

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10638
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/12/09

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	0.44	<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 MP10638: T41765-1

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10638
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/12/09

11/12/09

Metal	T37853-1B Original	DUP	RPD	QC Limits	T37853-1B Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium	19400	20400	5.0	0-20	19400	21000	22.7	7059.7(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 MP10638: T41765-1

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10638
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/12/09

Metal	T37853-1B Original MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic					
Barium	19400	21000	22.6	7073.8(a	0.0 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 MP10638: T41765-1

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10638
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 11/12/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	20.4	20	102.0	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 MP10638: T41765-1

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: T41765
 Account: OXYCOGJ - Oxy USA Inc.
 Project: Colibran - Pit Reclaims

QC Batch ID: MP10638
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 11/12/09

Metal	T37853-1B	QC
	Original SDL 25:125%DIF	Limits

Aluminum				
Antimony				
Arsenic				
Barium	350000	388000	10.9*(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 MP10638: T41765-1

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10639
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/12/09

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	-20	<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 MP10639: T41765-1A

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10639
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

11/12/09

11/12/09

Metal	T41707-1A			QC	T41707-1A		Spikelot		QC
	Original	DUP	RPD	Limits	Original	MS	MPTW4	% Rec	Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	779	740	5.1	0-20	779	2810	1000	105.8	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 MP10639: T41765-1A

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10639
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/12/09

Metal	T41707-1A Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron	779	2800	1000	102.5	0.4	20
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc						

Associated samples MP10639: T41765-1A

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10639
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/12/09

Metal	BSP Result	Spikelot MPTW4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	1880	1000	94.1	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 MP10639: T41765-1A

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: T41765
Account: OXYCOGJ - Oxy USA Inc.
Project: Colibran - Pit Reclaims

QC Batch ID: MP10639
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 11/12/09

Metal	T41707-1A		QC	
	Original	SDL 1:5	%DIF	Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	399	400	0.2	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 MP10639: T41765-1A

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