



697-09-61 (Conn Camp)  
COGCC Project No. 4620  
July - September 2010 Summary of Events

November 12, 2010




Prepared by:

 11/12/10

Brett Kennedy  
Sr. HES Specialist

Reviewed by:

 11/12/2010

Sean Norris  
Regulatory Lead



## 1.0 Location:

OXY USA WTP LP  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Cascade Creek 697-09-61  
T6S, R97W, S9, SWSE  
Garfield County, Colorado

## 2.0 Executive Summary:

This quarterly status report is to document release monitoring and interim remedial actions at OXY USA WTP LP's ("OXY") Cascade Creek 697-09-61 well pad and adjacent unnamed drainage. The well pad is situated east of an unnamed creek, and the release has extended to the drainage near a rancher's cabin (Conn Camp) located along the west unnamed creek. The well pad, Conn Camp, and the area upon which the release occurred and surfaced are located on property owned by OXY.

In Quarter (Qtr) 3 of 2010, OXY has completed interim remedial activities at the site, including:

- Surface water monitoring
- Monitoring of impoundment conditions
- Placement and injection oxidizing compounds to augment remediation

The results of the July, August, and September 2010 sampling events indicated that all sample results were below the Maximum Contaminant Level (MCL).

The overall reduction of hydrocarbons concentrations to less than the MCL indicates the efficacy of OXY's interim remedial activities. On July 20 and August 18, 2010, OXY injected treatments of in-situ chemical oxidation compounds into the release point. This was last of the scheduled 2010 treatments. Based on the favorable lab results, we do not have plans for additional injections unless we see an increase in hydrocarbon concentrations in the future.

Analytical results from total dissolved solids (TDS) samples collected at the site did not exceed the secondary drinking water standard of 500 mg/L at any sampling location.

## 3.0 Interim Remedial and Monitoring Activities:

During Qtr 3, monthly site visits were conducted by OXY personnel to collect water samples for laboratory analyses. The impoundments were observed to ensure they were capturing flow and preventing releases to the environment. All of the trenches appear to be functioning as designed.

## 4.0 Water Monitoring – 2010 Qtr 3:

A total of 3 sampling events were conducted from July through September 2010. The sampling events were conducted on the following dates:

- July 29, 2010
- August 30, 2010
- September 30, 2010



Samples were collected by OXY personnel on a regular basis. Locations sampled in Qtr 3 are identified in the following table, along with their corresponding Map Identifiers (see Appendix A).

Map ID	Sample Location	Location Description
39_conf	Core Springs Confluence	Confluence of Core Springs A, B, and C
1u	Upstream (Conn Camp)	Upgradient sample location (Background location)
2	North Trench	Trench intercepting northern seep from suspected release
32	Latham Spring Pond	Constructed in-stream pond for Cattle near Conn Camp
33	Latham-Spring-Fresh	Spring that feeds Water Trough and Conn Camp cabin
4	Water Trough	Water Trough associated with ranching activities
7	S1 Trench	Trench intercepting southern seep from suspected release
11	S2 Trench	Trench intercepting southern seep from suspected release
37	Creek	West unnamed creek by S2 Trench impoundments
9	Dam 2	Lower dam in west unnamed creek
10	Point of Compliance/Creek Confluence	Confluence of west unnamed creek with Cascade Canyon
12	Upstream, South Y	Cascade Creek upgradient from Location #10 and #10u
40	Cascade Canyon-Core Creek Confluence	Confluence of Cascade Canyon and East Creek

#### 5.0 Water Quality Results:

Monthly water quality sampling typically consists of sampling for BTEX/GRO. Furthermore, field parameters (TDS, EC, pH, and temperature) are collected utilizing a calibrated Hanna Instruments HI991300.

All results were below the MCL. Additionally, minor hydrocarbon impacts detected below the MCLs were observed in several locations including Core Springs Confluence (#39\_conf), N. Trench (2), Latham-Spring-Pond (32), S1 Trench (7), S2 Trench (11), and Creek (37). A Qtr 3 2010 historical perspective is provided.

Core Springs Confluence (39_conf)	Benzene	Toluene	Ethyl-benzene	Xylenes	GRO	TDS
07/29/2010	0.0046	0.0012	0.0045	0.017	0.52	329
08/30/2010	0.0048	0.00046	0.0045	0.021	0.14	292
09/30/2010	0.0038	0.00098	0.0036	0.014	0.11	297

Upstream (Conn Camp) (1u)	Benzene	Toluene	Ethyl-benzene	Xylenes	GRO	TDS
07/29/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	302
08/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	292
09/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	325

N. Trench (2)	Benzene	Toluene	Ethyl-benzene	Xylenes	GRO	TDS
07/29/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	318
08/30/2010	0.00014	<0.00021	<0.00021	<0.00043	<0.040	328
09/30/2010	0.00043	<0.00021	0.00039	0.0019	<0.040	349



<b>Latham- Spring-Pond (32)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	0.0021	<0.00021	0.0023	0.013	0.23	322
08/30/2010	0.002	0.00038	0.0021	0.008	<0.040	293
09/30/2010	0.0010	0.00026	0.00061	0.0025	<0.040	296

<b>Trough (4)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
08/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	298
09/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	306

<b>S1 Trench (7)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	<0.00013	<0.00021	<0.00021	0.00064	<0.040	341
08/30/2010	0.0041	<0.00021	0.0029	0.025	<0.040	360
09/30/2010	0.0023	<0.00021	0.0018	0.02	<0.040	390

<b>S2 Trench (11)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	0.0025	<0.00021	<0.00021	0.0032	<0.040	430
08/30/2010	0.0035	<0.00021	0.00072	0.0062	<0.040	399
09/30/2010	0.0039	<0.00021	0.00074	0.0077	<0.040	436

<b>Creek (37)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	0.00087	<0.00021	<0.00021	0.0016	<0.040	350
08/30/2010	0.00049	<0.00021	<0.00021	0.00080	<0.040	348
09/30/2010	0.00016	<0.00021	<0.00021	<0.00043	<0.040	360

<b>Dam 2 (9)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	368
08/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	392
09/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	412

<b>Creek Confluence/Point of Compliance (10)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	310
08/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	274
09/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	310

<b>Upstream South Y (12)</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-benzene</b>	<b>Xylenes</b>	<b>GRO</b>	<b>TDS</b>
07/29/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	288
08/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	265
09/30/2010	<0.00013	<0.00021	<0.00021	<0.00043	<0.040	293

**6.0 In-Situ Chemical Oxidation Applications:**

RegenOx®, a proprietary in-situ chemical oxidation (ISCO) compound manufactured by Regenesis, was applied in the vicinity of the former pit on the well pad. ISCO applications were completed according to the following schedule:

**ISCO Application Schedule**

<b>Injection</b>	<b>Total lbs RegenOx</b>	<b>lbs Part A</b>	<b>lbs Part B</b>	<b>Water needed Part A</b>	<b>Water needed Part B</b>	<b>Status</b>
1	500	500	0	1140	0	<b>Completed 07/20/2010</b>
2	500	500	0	1140	0	<b>Completed 08/18/2010</b>

ISCO was injected into a partially buried pipe that was placed under the lined production pit in the vicinity of the fractures related to the release. The pipe readily accepted solutions indicating successful infiltration of the solution into the area of concern. Based on the favorable lab results, we do not have plans for additional injections unless we see an increase in hydrocarbon concentrations in the future.

**7.0 Conclusions:**

The Qtr 3 2010 concentrations of hydrocarbons detected in the water samples collected from the 697-09-61 Pad vicinity were all below the MCL. The reduction of hydrocarbons indicates the overall efficacy of OXY's interim remedial activities. On July 20, 2010 and August 18, 2010, OXY injected in-situ chemical oxidation compounds into the release point. Based on the favorable lab results, we do not have plans for additional injections unless we see an increase in hydrocarbon concentrations in the future. OXY will continue to monitor the water levels and collect water samples on a monthly basis, as weather permits. A year-end progress report for the release will be prepared to detail sampling, remediation efforts, and other information collected during 2010.





## Appendix A





**OXY USA WTP LP**

760 Horizon Dr., Suite 101  
Grand Junction, CO 81506  
Phone 970.263.3600

## **Appendix B**

Company Name/Address: <b>Oxy USA WTP LP - Grand Junction, CO</b> 760 Horizon Dr.. Ste. 101 Grand Junction.CO 81506				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page 1 of 2	
Report to: <b>Brett Kennedy</b>				Email to: <b>brett.kennedy@oxy.com</b>								Prepared by:	
Project Description: <b>09-61</b>				City/State Collected: <b>-</b>								<b>ENVIRONMENTAL SCIENCE CORP.</b> 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Phone: (970) 263-3601 FAX: (970) 201-2305		Client Project #:		ESC Key:								<b>D104</b>	
Collected by: <b>Brett Kennedy</b>		Site/Facility ID#:		P.O.#:								CoCode: <b>OXYWTPGJ</b> (lab use only) Template/Prelogin Shipped Via:	
Collected by (signature): <b>Brett Kennedy</b> Immediately Packed on Ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Rush? (Lab MUST Be Notified) ____ Same Day.....200% ____ Next Day.....100% ____ Two Day.....50% ____ Three Day.....25%		Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		No. of Cntrs						Remarks/Contaminant	
Sample ID		Comp/Grab		Matrix*		Depth		Date		Time		Sample # (lab only)	
#39-cont Core Springs Confluence		6rb		SW		0-6"		7/29/10		1100		2	
1u Upstream (Conn Camp)										1027		2	
#2 North Trench										1239		2	
#32 Latham Spring Pond										1245		2	
#7 S1 Trench										1255		2	
#11 S2 Trench										1300		2	
#37 Creek										1306		2	
#9 Dam 2										1318		2	
#10 Creek Confluence										1327		2	
*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other <b>SW</b>													
Remarks: <b>8695 1789 Surface water 5749</b>													
Relinquished by: (Signature) <b>Brett Kennedy</b>		Date: <b>7/30/10</b>		Time: <b>1410</b>		Received by: (Signature)		Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only)			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>3.44</b>		Bottles Received: <b>20</b>		CoC Seals Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date: <b>7/31/10</b>		Time: <b>0900</b>		pH Checked: NCF:	



Company Name/Address: <b>Oxy USA WTP LP - Grand Junction, CO</b> 760 Horizon Dr.. Ste. 101 Grand Junction.CO 81506			Alternate billing information:			Analysis/Container/Preservative			Chain of Custody Page <u>2</u> of <u>2</u>		
Report to: <u>Brett Kennedy</u>			Email to: <u>brett.kennedy@oxy.com</u>			Analysis/Container/Preservative			Prepared by:		
Project Description: <u>09-61</u>			City/State Collected: <u>          </u>						<b>ENVIRONMENTAL SCIENCE CORP.</b> 12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859		
Phone: (970) 263-3601 FAX: (970) 201-2305		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> Packed on Ice N <u>  </u> Y <u>  </u>		<b>Rush?</b> ( 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	Analysis/Container/Preservative		Remarks/Contaminant	Sample # (lab only)	
#12 Upstream, South Y		Grab	SW	0-6"	7/29/10	1330			2		L477712-10

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

Remarks: surface water Flow            Other           

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>7/30/10</u>	Time: <u>1410</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other	Condition: (lab use only) <u>          </u>
Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>          </u>	Time: <u>          </u>	Received by: (Signature) <u>[Signature]</u>	Temp: <u>34°</u>	Bottles Received: <u>20</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>          </u>	Time: <u>          </u>	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>7/31/10</u>	Time: <u>0900</u>
				pH Checked:	NCF:



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Est. 1970

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

## Report Summary

Wednesday August 04, 2010

Report Number: L471712

Samples Received: 07/31/10

Client Project: 09-61

Description: 09-61

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 WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-01

Sample ID : 39 CONF CORE SPRING S 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 11:00

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0046	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	0.0012	0.00021	0.0050	mg/l	J	8021/80	08/01/10	1
Ethylbenzene	0.0045	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	0.017	0.00043	0.0015	mg/l		8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	0.52	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	104.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	89.9			% Rec.		8021/80	08/01/10	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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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-02

Sample ID : 1U UPSTREAM CONN CAMP 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 12:27

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/01/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	91.0			% Rec.		8021/80	08/01/10	1

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-03

Sample ID : 2 NORTH TRENCH 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 12:39

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/01/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	90.6			% Rec.		8021/80	08/01/10	1

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-04

Sample ID : 32 LATHAM SPRING POND 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 12:45

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0021	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/01/10	1
Ethylbenzene	0.0023	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	0.013	0.00043	0.0015	mg/l		8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	0.23	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	106.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	90.9			% Rec.		8021/80	08/01/10	1

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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 WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

Sample ID : 7 S1 TRENCH 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 07/29/10 12:55

ESC Sample # : L471712-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/01/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	0.00064	0.00043	0.0015	mg/l	J	8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	106.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	90.1			% Rec.		8021/80	08/01/10	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 WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61  
Sample ID : 11 S2 TRENCH 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 07/29/10 13:00

ESC Sample # : L471712-06

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0025	0.00013	0.00050	mg/l		8021/80	08/01/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/01/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/01/10	1
Total Xylene	0.0032	0.00043	0.0015	mg/l		8021/80	08/01/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/01/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	106.			% Rec.		8021/80	08/01/10	1
a,a,a-Trifluorotoluene(PID)	88.7			% Rec.		8021/80	08/01/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

Sample ID : 37 CREEK 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 07/29/10 13:06

ESC Sample # : L471712-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00087	0.00013	0.00050	mg/l		8021/80	08/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/02/10	1
Total Xylene	0.0016	0.00043	0.0015	mg/l		8021/80	08/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	106.			% Rec.		8021/80	08/02/10	1
a,a,a-Trifluorotoluene(PID)	88.6			% Rec.		8021/80	08/02/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

Sample ID : 9 DAM 2 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 07/29/10 13:18

ESC Sample # : L471712-08

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	08/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	08/02/10	1
a,a,a-Trifluorotoluene(PID)	91.1			% Rec.		8021/80	08/02/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-09

Sample ID : 10 CREEK CONFLUENCE 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 13:27

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	08/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	108.			% Rec.		8021/80	08/02/10	1
a,a,a-Trifluorotoluene(PID)	91.3			% Rec.		8021/80	08/02/10	1

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# REPORT OF ANALYSIS

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

August 04, 2010

Date Received : July 31, 2010  
Description : 09-61

ESC Sample # : L471712-10

Sample ID : 12 UPSTREAM SOUTH Y 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 07/29/10 13:30

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	08/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	08/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	08/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	08/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	08/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	107.			% Rec.		8021/80	08/02/10	1
a,a,a-Trifluorotoluene(PID)	90.4			% Rec.		8021/80	08/02/10	1

U = ND (Not Detected)

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L471712-01	WG491399	SAMP	Toluene	R1310428	J
L471712-05	WG491399	SAMP	Total Xylene	R1310428	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  
08/04/10 at 09:34:11

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L471712-01 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-02 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-03 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-04 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-05 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-06 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-07 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-08 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-09 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33  
Sample: L471712-10 Account: OXYWTPGJCO Received: 07/31/10 09:00 Due Date: 08/06/10 00:00 RPT Date: 08/04/10 09:33



Company Name/Address: <b>OXY USA - Grand Junction, CO</b> WTP LP 760 Horizon Dr.. Ste. 101 Grand Junction.CO 81506				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page 1 of 2					
Report to: <b>Brett Kennedy</b>				Email to: <b>brett.kennedy@oxy.com</b>				BTEX/6RO				Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b> 12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859					
Project Description: <b>09-61</b>				City/State Collected: <b>—</b>								B092 CoCode <b>OXYGJCO</b> (lab use only) Template/Prelogin Shipped Via:					
Phone: <b>(970) 263-3601</b> FAX:		Client Project #: <b>—</b>		ESC Key: <b>—</b>		Collected by: <b>Brett Kennedy</b>						Site/Facility ID#: <b>—</b>		P.O.#: <b>—</b>			
Collected by (signature): <b>Brett Kennedy</b> Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>				<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input checked="" 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	
#39 cont Core Springs Contaminant		6 grab		GW		0-6"		8/30/10		0855		2		1476562 -01			
1u Upstream (corn loop)		↓		↓		↓		↓		1038		2		-02			
#2 North Trench		↓		↓		↓		↓		1043		2		-03			
#32 Latham Spring Pond		↓		↓		↓		↓		1047		2		-04			
#4 Water Trough		↓		↓		↓		↓		1050		2		-05			
#7 S. Trench		↓		↓		↓		↓		1000		2		-06			
#11 S. Trench		↓		↓		↓		↓		1105		2		-07			
#37 Creek		↓		↓		↓		↓		1109		2		-08			
#9 Dam 2		↓		↓		↓		↓		1100		2		-09			

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


Remarks:

*surface water*

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <b>Brett Kennedy</b>		Date: <b>8/31/10</b> Time: <b>1715</b>		Received by: (Signature) 		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____		Condition: (lab use only) <b>OK</b>	
Relinquished by: (Signature) 		Date: _____ Time: _____		Received by: (Signature) 		Temp: <b>4.8°</b> Bottles Received: <b>22</b>		CoC Seals Intact <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA	
Relinquished by: (Signature) 		Date: _____ Time: _____		Received for lab by: (Signature) <b>J. Ellis</b>		Date: <b>09-01-10</b> Time: <b>0900</b>		pH Checked: _____ NCF: _____	


Company Name/Address: <b>OXY USA - Grand Junction, CO</b> <i>WTP LP</i> 760 Horizon Dr.. Ste. 101 Grand Junction.CO 81506				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page <u>2</u> of <u>2</u>	
Report to: <i>Brett Kennedy</i>				Email to: <i>brett.kennedy@oxy.com</i>				PREPARED BY:				Prepared by:   <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Project Description: <i>09-61</i>				City/State Collected:									
Phone: (970) 263-3601 FAX:		Client Project #:		ESC Key:									
Collected by: <i>Brett Kennedy</i>		Site/Facility ID#:		P.O.#:									
Collected by (signature): <i>Brett Kennedy</i> Immediately Packed on Ice N ___ Y <u>✓</u>		<b>Rush?</b> (Lab MUST Be Notified) ___ Same Day. .... 200% ___ Next Day. .... 100% ___ Two Day. .... 50% <u>✓</u> Three Day. .... 25%		Date Results Needed: Email? ___ No <u>✓</u> Yes FAX? <u>✓</u> No ___ Yes		No. of Cntrs							
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant		Sample # (lab only)		
#10 Creek Confluence		Grab	SW	0-6"	8/30/10	1127	2	✓ 1 BTEX/640			L476562 -10		
#12 Upstream South Y		↓	↓	↓	↓	1132	2				-11		

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

Remarks: *surface water*

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <i>Brett Kennedy</i>	Date: <i>8/31/10</i>	Time: <i>1715</i>	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____	Condition: (lab use only) <i>OK</i>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <i>43°</i>	Bottles Received: <i>22v</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>J. Felle</i>	Date: <i>09-01-10</i>	Time: <i>0900</i>
				CoC Seals Intact ___ Y ___ N <u>✓</u> NA	
				pH Checked:   NCF:	



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Est. 1970

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

## Report Summary

Sunday September 05, 2010

Report Number: L476562

Samples Received: 09/01/10

Client Project: 09-61

Description:

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

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 39 CONT CORE SPRINGS CONFLUENCE

Collected By : Brett Kennedy  
Collection Date : 08/30/10 08:55

ESC Sample # : L476562-01

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0048	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	0.00046	0.00021	0.0050	mg/l	J	8021/80	09/02/10	1
Ethylbenzene	0.0045	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	0.021	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	0.14	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	88.9			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	09/02/10	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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 1U UPSTREAM

Collected By : Brett Kennedy  
Collection Date : 08/30/10 10:38

ESC Sample # : L476562-02

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	100.			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	09/02/10	1

U = ND (Not Detected)

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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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 2 NORTH TRENCH

Collected By : Brett Kennedy  
Collection Date : 08/30/10 10:43

ESC Sample # : L476562-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00014	0.00013	0.00050	mg/l	J	8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.8			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	09/02/10	1

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 32 LATHEM SPRING POND

Collected By : Brett Kennedy  
Collection Date : 08/30/10 10:47

ESC Sample # : L476562-04

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0020	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	0.00038	0.00021	0.0050	mg/l	J	8021/80	09/02/10	1
Ethylbenzene	0.0021	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	0.0080	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	93.4			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	09/02/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 4 WATER TROUGH

Collected By : Brett Kennedy  
Collection Date : 08/30/10 10:50

ESC Sample # : L476562-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.9			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	09/02/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 7 S. TRENCH

Collected By : Brett Kennedy  
Collection Date : 08/30/10 10:00

ESC Sample # : L476562-06

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0041	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	0.0029	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	0.025	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.3			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	09/02/10	1

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 11 S2 TRENCH

Collected By : Brett Kennedy  
Collection Date : 08/30/10 11:05

ESC Sample # : L476562-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0035	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	0.00072	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	0.0062	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.2			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	09/02/10	1

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 37 CREEK

Collected By : Brett Kennedy  
Collection Date : 08/30/10 11:09

ESC Sample # : L476562-08

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00049	0.00013	0.00050	mg/l	J	8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	0.00080	0.00043	0.0015	mg/l	J	8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	116.			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	98.2			% Rec.		8021/80	09/02/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 9 DAM 2

Collected By : Brett Kennedy  
Collection Date : 08/30/10 11:00

ESC Sample # : L476562-09

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.5			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	09/02/10	1

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :

Sample ID : 10 CREEK CONFLUENCE

Collected By : Brett Kennedy  
Collection Date : 08/30/10 11:27

ESC Sample # : L476562-10

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.2			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	09/02/10	1

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# REPORT OF ANALYSIS

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

September 05, 2010

Date Received : September 01, 2010  
Description :  
Sample ID : 12 UPSTREAM SOUTH Y  
Collected By : Brett Kennedy  
Collection Date : 08/30/10 11:32

ESC Sample # : L476562-11

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	09/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	09/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	09/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	09/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	09/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.7			% Rec.		8021/80	09/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	09/02/10	1

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L476562-01	WG496414	SAMP	Toluene	R1359850	J
L476562-03	WG496414	SAMP	Benzene	R1359850	J
L476562-04	WG496414	SAMP	Toluene	R1359850	J
L476562-08	WG496428	SAMP	Benzene	R1359030	J
	WG496428	SAMP	Total Xylene	R1359030	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  
09/05/10 at 18:53:59

TSR Signing Reports: 134  
R4 - Rush: Three Day

Sample: L476562-01 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-02 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-03 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-04 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-05 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-06 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-07 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-08 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-09 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-10 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53  
Sample: L476562-11 Account: OXYGJCO Received: 09/01/10 09:00 Due Date: 09/07/10 00:00 RPT Date: 09/05/10 18:53



Company Name/Address: <b>OXY USA - Grand Junction, CO</b> WTP LP  760 Horizon Dr., Ste. 101 Grand Junction, CO 81506				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page 2 of 2	
Report to: <u>Brett Kennedy</u>				Email to: <u>brett-kennedy@oxy.com</u>				5 BTEX/6RO				Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Project Description: <u>09-61</u>				City/State Collected: <u>—</u>									
Phone: (970) 263-3601 FAX:		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>		<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input checked="" 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						CoCode <b>OXYGJCO</b> (lab use only) Template/Prelogin Shipped Via:	
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant	Sample # (lab only)			
#10 Creek Confluence		grab	SW <u>6/10/10</u>	0-6"	9/30/10	1432	2		L481952 -10				
#12 Upstream South Y		↓	↓	↓	↓	1437	2		-11				

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

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

surface water

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <u>Brett Kennedy</u>	Date: <u>10/10/10</u>	Time: <u>0746</u>	Received by: (Signature) 	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only)	
	Date:	Time:		Temp: <u>3.1°</u>	Bottles Received: <u>220</u>	CoC Seals Intact <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	pH Checked:	NCF:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>T. Kennedy</u>	Date: <u>10/2/10</u>	Time: <u>0900</u>		



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Est. 1970

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

### Report Summary

Monday October 04, 2010

Report Number: L481952

Samples Received: 10/02/10

Client Project: 09-61

Description: 09-61

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:

Craig Cothron , 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,  
TX - T104704245, OK-9915

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

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

ESC Sample # : L481952-01

Sample ID : 39 CONF CORE SPRINGS CONFLUENCE 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 09/30/10 11:50

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0038	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	0.00098	0.00021	0.0050	mg/l	J	8021/80	10/02/10	1
Ethylbenzene	0.0036	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	0.014	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	0.11	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	87.4			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	10/02/10	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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

ESC Sample # : L481952-02

Sample ID : 1U UPSTREAM CONN CAMP 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 09/30/10 13:25

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.8			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	10/02/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

Sample ID : 2 NORTH TRENCH 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 09/30/10 13:40

ESC Sample # : L481952-03

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00043	0.00013	0.00050	mg/l	J	8021/80	10/02/10	1
Toluene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Ethylbenzene	0.00039	0.00021	0.00050	mg/l	J	8021/80	10/02/10	1
Total Xylene	0.0019	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	97.7			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

ESC Sample # : L481952-04

Sample ID : 32 LATHEM SPRING POND 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 09/30/10 13:45

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00096	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	0.00026	0.00021	0.0050	mg/l	J	8021/80	10/02/10	1
Ethylbenzene	0.00061	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	0.0025	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	95.1			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

Sample ID : 4 WATER TROUGH 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 09/30/10 13:49

ESC Sample # : L481952-05

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.6			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

ESC Sample # : L481952-06

Sample ID : 7 S1 TRENCH 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 09/30/10 13:59

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0023	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	0.0018	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	0.020	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	96.9			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61  
Sample ID : 11 S2 TRENCH 0-6 IN  
Collected By : Brett Kennedy  
Collection Date : 09/30/10 14:05

ESC Sample # : L481952-07

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.0039	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	0.00074	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	0.0077	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	97.5			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	101.			% Rec.		8021/80	10/02/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

Sample ID : 37 CREEK 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 09/30/10 14:10

ESC Sample # : L481952-08

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	0.00016	0.00013	0.00050	mg/l	J	8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.8			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	103.			% Rec.		8021/80	10/02/10	1

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MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

Sample ID : 9 DAM 2 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 09/30/10 14:27

ESC Sample # : L481952-09

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.4			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

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MDL = Minimum Detection Limit = LOD

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# REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

ESC Sample # : L481952-10

Sample ID : 10 CREEK CONFLUENCE 0-6 IN

Site ID :

Collected By : Brett Kennedy  
Collection Date : 09/30/10 14:32

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	10/02/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/02/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/02/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/02/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/02/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	98.6			% Rec.		8021/80	10/02/10	1
a,a,a-Trifluorotoluene(PID)	102.			% Rec.		8021/80	10/02/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

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REPORT OF ANALYSIS

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

October 04, 2010

Date Received : October 02, 2010  
Description : 09-61

Sample ID : 12 UPSTREAM SOUTH Y 0-6 IN

Collected By : Brett Kennedy  
Collection Date : 09/30/10 14:37

ESC Sample # : L481952-11

Site ID :

Project # : 09-61

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Benzene	U	0.00013	0.00050	mg/l		8021/80	10/03/10	1
Toluene	U	0.00021	0.0050	mg/l		8021/80	10/03/10	1
Ethylbenzene	U	0.00021	0.00050	mg/l		8021/80	10/03/10	1
Total Xylene	U	0.00043	0.0015	mg/l		8021/80	10/03/10	1
TPH (GC/FID) Low Fraction	U	0.040	0.10	mg/l		GRO	10/03/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	99.4			% Rec.		8021/80	10/03/10	1
a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021/80	10/03/10	1

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L481952-01	WG501335	SAMP	Toluene	R1407949	J
L481952-03	WG501335	SAMP	Benzene	R1407949	J
	WG501335	SAMP	Ethylbenzene	R1407949	J
L481952-04	WG501335	SAMP	Toluene	R1407949	J
L481952-08	WG501335	SAMP	Benzene	R1407949	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  
10/04/10 at 15:42:51

TSR Signing Reports: 134  
R4 - Rush: Three Day

Sample: L481952-01 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-02 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-03 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-04 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-05 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-06 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-07 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-08 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-09 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-10 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42  
Sample: L481952-11 Account: OXYGJCO Received: 10/02/10 09:00 Due Date: 10/06/10 00:00 RPT Date: 10/04/10 15:42