



December 16, 2010

Ms. Linda Spry O'Rourke
Colorado Oil & Gas Conservation Commission
707 Wapiati Court
Rifle CO 81650

Re: ALS Workorder: 10-11-137
Project Name: BBC Pipeline-Epperly
Project Number: None submitted

Dear Ms. O'Rourke:

One water and two soil samples were received from Colorado Oil & Gas Conservation Commission on November 9, 2010. The samples were scheduled for the following analyses:

Metals
Inorganics
GC/MS Volatiles
GC/MS Semivolatiles
Total Volatile Petroleum Hydrocarbons (Gasoline)

The results for these analyses are contained in the enclosed reports.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Amy Wolf
Project Manager

ARW/km
Enclosure (s): Report

ALS is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

Accreditation Body	License or Certification Number
Washington	C1280
Utah	CO00078
Arizona	AZ0742
Alaska	UST-086
Alaska	CO00078
Florida	E87914
Missouri	175
North Dakota	R-057
New Jersey	CO003
Nevada	CO000782008A
California	06251CA
Kansas	E-10381
Maryland	285
Pennsylvania	68-03116
Texas	T104704241-09-1
Colorado	CO00078
Connecticut	PH-0232
Idaho	CO00078
Tennessee	2976
Kentucky	90137
L-A-B (DoD ELAP/ISO 17025)	L2257

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1011137

Client Name: COGCC

Client Project Name: BBC Pipeline-Epperly

Client Project Number:

Client PO Number: OE PHA 11000000014

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
BBC-EP-PL-COGCC1	1011137-1		SOIL	07-Nov-10	15:04
BBC-EP-PL-COGCC2	1011137-2		SOIL	07-Nov-10	15:25
BBC-EP-PL-COGCC-HAW	1011137-3		WATER	07-Nov-10	15:35





CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCCWorkorder No: 1011137Project Manager: ARWInitials: LAS Date: 11/10/10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<u>YES</u>	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<u>N/A</u>	YES	NO
10. Is there sufficient sample for the requested analyses?	?	YES	<u>NO</u>
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<u>N/A</u>	YES	NO
15. Do perchlorate LCMS-MS samples have headspace ? (at least 1/3 of container required)	<u>N/A</u>	YES	NO
16. Were samples checked for and free from the presence of residual chlorine ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<u>N/A</u>	YES	NO
17. Were the samples shipped on ice ?		<u>YES</u>	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#2</u> #4	RAD ONLY	<u>YES</u> NO
Cooler #: <u>1</u>			
Temperature (°C): <u>20</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>YES</u> / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

* Insufficient volume for amount of requested analysesVOC is the priority test. 11/10/10If applicable, was the client contacted? YES / NO / NA Contact: Linda Spay O'Rourke Date/Time: 11/10/10Project Manager Signature / Date: ARW 11/10/10

FedEx® US Airbill

FedEx
Tracking
Number

8739 5552 2853

Recipient's Copy

1 From

Date 11/8/2010

Sender's Name United Supply & Service Phone 970 625 3170

Company 12

Address 2000 Campbell St Ste 201

City Niagara Falls State NY ZIP 14201

2 Your Internal Billing Reference

3 To

Recipient's Name State Recreology Phone 970 440 1511

Company ALB Lab

Address 225 Commons Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address 225 Commons Dr

Use this line for the HOLD location address or for continuation of your shipping address.

City Albany State NY ZIP 12201

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.



8739 5552 2853

4a Express Package Service

☐ **FedEx Priority Overnight**
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☒ **FedEx Standard Overnight**
Next business afternoon.* Saturday Delivery NOT available.

☐ **FedEx 2Day**
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx Express Saver**
Third business day.* Saturday Delivery NOT available.

☐ **FedEx First Overnight**
Earliest next business morning delivery to select locations.*

4b Express Freight Service

☐ **FedEx 1Day Freight**
Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx 2Day Freight**
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx 3Day Freight**
Third business day.** Saturday Delivery NOT available.

5 Packaging

☐ **FedEx Envelope***

☐ **FedEx Pak***
Includes FedEx Small Pak and FedEx Large Pak.

☐ **FedEx Box**

☐ **FedEx Tube**

☒ **Other**

6 Special Handling and Delivery Signature Options

☐ **SATURDAY Delivery**
NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.

☒ **No Signature Required**
Package may be left without obtaining a signature for delivery.

☐ **Direct Signature**
Someone at recipient's address may sign for delivery. *Fee applies.*

☐ **Indirect Signature**
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

☒ **No**

☐ **Yes**
As per attached Shipper's Declaration.

☐ **Yes**
Shipper's Declaration not required.

☐ **Dry Ice**
Dry Ice, 9, UN 1845

☐ **Cargo Aircraft Only**

7 Payment Bill to:

☒ **Sender**
Acct. No. in Section 1 will be billed.

☐ **Recipient**

☐ **Third Party**

☐ **Credit Card**

☐ **Cash/Check**

Total Packages 1 Total Weight 19 lbs. Total Declared Value* \$ 00

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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606

**GC/MS Volatiles:**

The sample was analyzed using GC/MS following SOP 525 Revision 14 based on SW-846 Method 8260C.

All acceptance criteria were met with the following exceptions:

All initial calibration criteria were met except for the target compounds acetone, vinyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone in the 111810S curve. No further action was taken. (NCR# 12560)

The method blanks VL101111-2MB and VL101118-3MB had methylene chloride detected below the reporting limit. This compound was not detected in the associated samples.

All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the following exceptions:

Spiked Compound	QC Sample	Direction
Methylene chloride	VL101111-2LCSD	High
2-Hexanone	VL101118-3LCSD	High

Because of the large number of target analytes reported by this method, the lab allows for sporadic marginal exceedances. No further action was taken.

Many of the matrix spike and matrix spike duplicate recoveries and RPDs were outside the acceptance criteria. The recoveries of these compounds in the associated laboratory control sample and laboratory control sample duplicate were within control limits, which suggests the outliers in the matrix spikes may have been due to matrix effects. No further action was taken.

GC/MS Semivolatiles:

The sample was analyzed using GC/MS following SOP 506 Revision 16 based on SW-846 Method 8270D.

All acceptance criteria were met with the following exception:

The 1X dilution was not reported due to affects of the matrix on the internal standards. The TICs are reported from the 5X dilution. No further action was taken.

GRO:

The samples were analyzed following SOP 425 Revision 13 generally based on SW-846 Methods 8000C and 8015C. The procedures are based on these methods because SW-846 does not have a specific method for TVPH or gasoline range organics. The only true modification from these methods is that TVPH is a multicomponent mixture and is quantitated by summing the entire range, rather than individual peaks. The carbon range integrated in this test extends from C₆ to C₁₀.

All matrix spike and matrix spike duplicate recoveries and RPDs were within the acceptance criteria with the following exceptions:



Spiked Compound	QC Sample	Direction
Gasoline range organics	1MS	High

The recoveries for gasoline range organics in the laboratory control sample and laboratory control sample duplicate were within control limits, which suggest the outlier in the matrix spikes may have been due to matrix effects. No further action was taken. Laboratory control sample and laboratory control sample duplicate results have been included.

Sample 3 was extracted beyond the holding time requirements.

All surrogate recoveries were within acceptable limits with the following exceptions:

Surrogate	Sample	Direction
2,3,4-Trifluorotoluene	1 and 1MS	High

The surrogate in the matrix spike was also outside the acceptance criteria, which suggests the outliers may have been due to matrix effects. No further action was taken.

Metals:

The samples were analyzed following SW-846, 3rd Edition procedures. Analysis by Trace ICP followed method 6010B and SOP 834 Revision 7. Analysis by ICPMS followed method 6020A and SOP 827 Revision 7.

All acceptance criteria were met.

Inorganics:

The sample was analyzed following MCAWW and EMSL procedures for the following methods:

Analyte	Method	SOP #
pH	150.1	1126 Rev 17
Specific conductance	120.1	1128 Rev 9
Bromide	300.0 Revision 2.1	1113 Rev 11
Chloride	300.0 Revision 2.1	1113 Rev 11
Fluoride	300.0 Revision 2.1	1113 Rev 11
Nitrate as N	300.0 Revision 2.1	1113 Rev 11
Nitrite as N	300.0 Revision 2.1	1113 Rev 11
Sulfate	300.0 Revision 2.1	1113 Rev 11

All acceptance criteria were met with the following exceptions:

n Matrix spike recoveries could not be evaluated for the following analyte:

Analyte	Sample ID
---------	-----------



Chloride

1011137-1MS & MSD

The chloride concentration in the native sample was above the analytical range; therefore accurate quantitation of MS/MSD recoveries were not possible as the spike added was small relative to the unspiked sample concentration. The LCS, ICV, and CCV results indicate the procedure was in control for this analyte.

- n All guidance criteria for precision were met with the following exception:

<u>Analyte</u>	<u>Sample ID</u>
Specific conductance	1011137-1D

The native sample result is flagged for duplicate failure.

10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

225 Commerce Dr
Ft. Collins Co 80524

Page _____ of _____

3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

1011137

9704901511

ALS Project Manager:

ALS Work Order #:

Customer Information			Project Information				Parameter/Method Request for Analysis																					
Purchase Order	Work Order	Company Name	Send Report To	Address	City/State/Zip	Phone	Fax	e-Mail Address	Project Name	Project Number	Bill To Company	Invoice Attn	Address	City/State/Zip	Phone	Fax	e-Mail Address	A	B	C	D	E	F	G	H	I	J	Hold
		COGCC	Linda Spry O'Rourke	707 Wapiti Ct Ste 204	Rifle Co 81650	970 625 2497		linda.spryorourke@state.co.us	BBC Pipeline Spprby			Linda Spry O'Rourke	same					8260-VOCs	GRO	8270-Semivol/PAH	anions/cations	ec, SAR, ph, metals (cogcc list)	SAR ee					
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold											
1	BBC-EP-PL-Cogcc 1 (1)	11/7/10	1504	So	none	2	X	X	X	X	X																	
2	BBC-EP-PL-Cogcc 2 (2)	11/7/10	1525	So	none	1	X			X	X																	
3	BBC-EP-PL-Cogcc-HAW (3)	11/7/10	1535	gw	none	2	X	X				X					very turbid											
4																												
5																												
6																												
7																												
8																												
9																												
10																												
Sampler(s) Please Print & Sign Linda Spry O'Rourke Linda Spry O'Rourke			Shipment Method FEDEX		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> <input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:																			
Relinquished by: Linda Spry O'Rourke		Date: 11/8/10	Time: 1800	Received by: FEDEX 8739 5552 2853		Notes: Call results as soon as available please																						
Relinquished by: FedEx		Date: 11/9/10	Time: 1000	Received by (Laboratory): Janner Chem		Cooler ID		Cooler Temp		QC Package: (Check One Box Below)																		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						<input type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Checklist <input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other																		
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O8 6-NaHSO4 7-Other 8-4°C 9-5035																												

Note:

1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2008 by ALS Laboratory Group.



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCCWorkorder No: 1011137Project Manager: ARWInitials: LASDate: 11/10/10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<u>YES</u>	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<u>N/A</u>	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<u>N/A</u>	YES	NO
10. Is there sufficient sample for the requested analyses?		YES	<u>NO</u>
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: _____ < green pea _____ > green pea	<u>N/A</u>	YES	NO
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<u>N/A</u>	YES	NO
16. Were samples checked for and free from the presence of residual chlorine ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<u>N/A</u>	YES	NO
17. Were the samples shipped on ice ?		<u>YES</u>	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#2</u> #4	RAD ONLY <u>YES</u>	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>2.0</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>YES</u> / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

* Insufficient volume for amount of requested analysesVOC is the priority test.If applicable, was the client contacted? YES / NO / NA Contact: Linda Spay O'Rourke Date/Time: 11/10/10Project Manager Signature / Date: ARW 11/10/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC1
 Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-1
 Matrix: SOIL
 Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS						
GASOLINE RANGE ORGANICS	54	Z,H	SW8015 1.2	MG/KG	Prep Date: 11/16/2010 1	PrepBy: JFN 11/16/2010 18:44
Surr: 2,3,4-TRIFLUOROTOLUENE	172	*	76-126	%REC	1	11/16/2010 18:44
GC/MS SEMI-VOLATILES						
PYRIDINE	ND		SW8270 22000	UG/KG	Prep Date: 11/17/2010 5	PrepBy: MTM 11/29/2010 09:58
N-NITROSODIMETHYLAMINE	ND		22000	UG/KG	5	11/29/2010 09:58
ANILINE	ND		22000	UG/KG	5	11/29/2010 09:58
PHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
BIS(2-CHLOROETHYL)ETHER	ND		22000	UG/KG	5	11/29/2010 09:58
2-CHLOROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
1,3-DICHLOROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
1,4-DICHLOROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
1,2-DICHLOROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZYL ALCOHOL	ND		22000	UG/KG	5	11/29/2010 09:58
BIS(2-CHLOROISOPROPYL)ETHER	ND		22000	UG/KG	5	11/29/2010 09:58
2-METHYLPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
N-NITROSO-DI-N-PROPYLAMINE	ND		22000	UG/KG	5	11/29/2010 09:58
3+4-METHYLPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
HEXACHLOROETHANE	ND		22000	UG/KG	5	11/29/2010 09:58
NITROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
ISOPHORONE	ND		22000	UG/KG	5	11/29/2010 09:58
2-NITROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
2,4-DIMETHYLPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
BIS(2-CHLOROETHOXY)METHANE	ND		22000	UG/KG	5	11/29/2010 09:58
2,4-DICHLOROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
BENZOIC ACID	ND		110000	UG/KG	5	11/29/2010 09:58
1,2,4-TRICHLOROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
NAPHTHALENE	ND		22000	UG/KG	5	11/29/2010 09:58
4-CHLOROANILINE	ND		22000	UG/KG	5	11/29/2010 09:58
HEXACHLOROBUTADIENE	ND		22000	UG/KG	5	11/29/2010 09:58
4-CHLORO-3-METHYLPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
2-METHYLNAPHTHALENE	ND		22000	UG/KG	5	11/29/2010 09:58
1-METHYLNAPHTHALENE	ND		22000	UG/KG	5	11/29/2010 09:58
HEXACHLOROCYCLOPENTADIENE	ND		22000	UG/KG	5	11/29/2010 09:58
2,4,6-TRICHLOROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
2,4,5-TRICHLOROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
2-CHLORONAPHTHALENE	ND		22000	UG/KG	5	11/29/2010 09:58
2-NITROANILINE	ND		43000	UG/KG	5	11/29/2010 09:58
DIMETHYL PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
2,6-DINITROTOLUENE	ND		22000	UG/KG	5	11/29/2010 09:58
ACENAPHTHYLENE	ND		22000	UG/KG	5	11/29/2010 09:58
3-NITROANILINE	ND		43000	UG/KG	5	11/29/2010 09:58
ACENAPHTHENE	ND		22000	UG/KG	5	11/29/2010 09:58
2,4-DINITROPHENOL	ND		43000	UG/KG	5	11/29/2010 09:58

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC1
 Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-1
 Matrix: SOIL
 Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-NITROPHENOL	ND		43000	UG/KG	5	11/29/2010 09:58
DIBENZOFURAN	ND		22000	UG/KG	5	11/29/2010 09:58
2,4-DINITROTOLUENE	ND		22000	UG/KG	5	11/29/2010 09:58
DIETHYL PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
FLUORENE	15000	J	22000	UG/KG	5	11/29/2010 09:58
4-CHLOROPHENYL PHENYL ETHER	ND		22000	UG/KG	5	11/29/2010 09:58
4-NITROANILINE	ND		43000	UG/KG	5	11/29/2010 09:58
AZOBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
4,6-DINITRO-2-METHYLPHENOL	ND		43000	UG/KG	5	11/29/2010 09:58
N-NITROSODIPHENYLAMINE	ND		22000	UG/KG	5	11/29/2010 09:58
4-BROMOPHENYL PHENYL ETHER	ND		22000	UG/KG	5	11/29/2010 09:58
HEXACHLOROBENZENE	ND		22000	UG/KG	5	11/29/2010 09:58
2,3,4,6-TETRACHLOROPHENOL	ND		22000	UG/KG	5	11/29/2010 09:58
PENTACHLOROPHENOL	ND		43000	UG/KG	5	11/29/2010 09:58
PHENANTHRENE	18000	J	22000	UG/KG	5	11/29/2010 09:58
ANTHRACENE	8300	J	22000	UG/KG	5	11/29/2010 09:58
CARBAZOLE	ND		22000	UG/KG	5	11/29/2010 09:58
DI-N-BUTYL PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
FLUORANTHENE	ND		22000	UG/KG	5	11/29/2010 09:58
PYRENE	ND		22000	UG/KG	5	11/29/2010 09:58
BUTYL BENZYL PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZO(A)ANTHRACENE	ND		22000	UG/KG	5	11/29/2010 09:58
3,3'-DICHLOROBENZIDINE	ND		22000	UG/KG	5	11/29/2010 09:58
CHRYSENE	ND		22000	UG/KG	5	11/29/2010 09:58
BIS(2-ETHYLHEXYL)PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
DI-N-OCTYL PHTHALATE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZO(B)FLUORANTHENE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZO(K)FLUORANTHENE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZO(A)PYRENE	ND		22000	UG/KG	5	11/29/2010 09:58
INDENO(1,2,3-CD)PYRENE	ND		22000	UG/KG	5	11/29/2010 09:58
DIBENZO(A,H)ANTHRACENE	ND		22000	UG/KG	5	11/29/2010 09:58
BENZO(G,H,I)PERYLENE	ND		22000	UG/KG	5	11/29/2010 09:58
Surr: 2-FLUOROPHENOL		X	36-132	%REC	5	11/29/2010 09:58
Surr: PHENOL-D5		X	47-120	%REC	5	11/29/2010 09:58
Surr: NITROBENZENE-D5		X	43-132	%REC	5	11/29/2010 09:58
Surr: 2-FLUOROBIPHENYL		X	56-122	%REC	5	11/29/2010 09:58
Surr: 2,4,6-TRIBROMOPHENOL		X	51-118	%REC	5	11/29/2010 09:58
Surr: TERPHENYL-D14		X	29-163	%REC	5	11/29/2010 09:58
GC/MS VOLATILES			SW8260		Prep Date: 11/18/2010	PrepBy: SDW
DICHLORODIFLUOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
DICHLORODIFLUOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
VINYL CHLORIDE	ND		320	UG/KG	50	11/18/2010 22:44

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC1
Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-1
Matrix: SOIL
Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VINYL CHLORIDE	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMOMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
BROMOMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
CHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
TRICHLOROFLUOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
TRICHLOROFLUOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
1,1-DICHLOROETHENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,1-DICHLOROETHENE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
ACETONE	41		26	UG/KG	1	11/18/2010 23:07
ACETONE	ND		1300	UG/KG	50	11/18/2010 22:44
IODOMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
IODOMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CARBON DISULFIDE	ND		320	UG/KG	50	11/18/2010 22:44
CARBON DISULFIDE	ND		6.5	UG/KG	1	11/18/2010 23:07
METHYLENE CHLORIDE	ND		6.5	UG/KG	1	11/18/2010 23:07
METHYLENE CHLORIDE	ND		320	UG/KG	50	11/18/2010 22:44
TRANS-1,2-DICHLOROETHENE	ND		320	UG/KG	50	11/18/2010 22:44
TRANS-1,2-DICHLOROETHENE	ND		6.5	UG/KG	1	11/18/2010 23:07
METHYL TERTIARY BUTYL ETHER	ND		6.5	UG/KG	1	11/18/2010 23:07
METHYL TERTIARY BUTYL ETHER	ND		320	UG/KG	50	11/18/2010 22:44
1,1-DICHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,1-DICHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
VINYL ACETATE	ND		26	UG/KG	1	11/18/2010 23:07
VINYL ACETATE	ND		1300	UG/KG	50	11/18/2010 22:44
CIS-1,2-DICHLOROETHENE	ND		6.5	UG/KG	1	11/18/2010 23:07
CIS-1,2-DICHLOROETHENE	ND		320	UG/KG	50	11/18/2010 22:44
2-BUTANONE	ND		26	UG/KG	1	11/18/2010 23:07
2-BUTANONE	ND		1300	UG/KG	50	11/18/2010 22:44
BROMOCHLOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMOCHLOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
CHLOROFORM	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROFORM	ND		320	UG/KG	50	11/18/2010 22:44
1,1,1-TRICHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,1,1-TRICHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
2,2-DICHLOROPROPANE	ND		320	UG/KG	50	11/18/2010 22:44
2,2-DICHLOROPROPANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CARBON TETRACHLORIDE	ND		6.5	UG/KG	1	11/18/2010 23:07
CARBON TETRACHLORIDE	ND		320	UG/KG	50	11/18/2010 22:44
1,1-DICHLOROPROPENE	ND		320	UG/KG	50	11/18/2010 22:44
1,1-DICHLOROPROPENE	ND		6.5	UG/KG	1	11/18/2010 23:07

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC1
 Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-1
 Matrix: SOIL
 Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-DICHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DICHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
BENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
BENZENE	ND		320	UG/KG	50	11/18/2010 22:44
TRICHLOROETHENE	ND		320	UG/KG	50	11/18/2010 22:44
TRICHLOROETHENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DICHLOROPROPANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DICHLOROPROPANE	ND		320	UG/KG	50	11/18/2010 22:44
DIBROMOMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
DIBROMOMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
BROMODICHLOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMODICHLOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
CIS-1,3-DICHLOROPROPENE	ND		320	UG/KG	50	11/18/2010 22:44
CIS-1,3-DICHLOROPROPENE	ND		6.5	UG/KG	1	11/18/2010 23:07
4-METHYL-2-PENTANONE	ND		1300	UG/KG	50	11/18/2010 22:44
4-METHYL-2-PENTANONE	ND		26	UG/KG	1	11/18/2010 23:07
TOLUENE	4.1	J	6.5	UG/KG	1	11/18/2010 23:07
TOLUENE	ND		320	UG/KG	50	11/18/2010 22:44
TRANS-1,3-DICHLOROPROPENE	ND		6.5	UG/KG	1	11/18/2010 23:07
TRANS-1,3-DICHLOROPROPENE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,2-TRICHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,2-TRICHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
2-HEXANONE	ND		1300	UG/KG	50	11/18/2010 22:44
2-HEXANONE	ND		26	UG/KG	1	11/18/2010 23:07
TETRACHLOROETHENE	ND		6.5	UG/KG	1	11/18/2010 23:07
TETRACHLOROETHENE	ND		320	UG/KG	50	11/18/2010 22:44
1,3-DICHLOROPROPANE	ND		320	UG/KG	50	11/18/2010 22:44
1,3-DICHLOROPROPANE	ND		6.5	UG/KG	1	11/18/2010 23:07
DIBROMOCHLOROMETHANE	ND		320	UG/KG	50	11/18/2010 22:44
DIBROMOCHLOROMETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DIBROMOETHANE	ND		320	UG/KG	50	11/18/2010 22:44
1,2-DIBROMOETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1-CHLOROHEXANE	ND		320	UG/KG	50	11/18/2010 22:44
1-CHLOROHEXANE	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
CHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,1,2-TETRACHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,1,2-TETRACHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
ETHYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
ETHYLBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
M+P-XYLENE	4.3	J	6.5	UG/KG	1	11/18/2010 23:07
M+P-XYLENE	ND		320	UG/KG	50	11/18/2010 22:44
O-XYLENE	ND		320	UG/KG	50	11/18/2010 22:44
O-XYLENE	7.9		6.5	UG/KG	1	11/18/2010 23:07
STYRENE	ND		320	UG/KG	50	11/18/2010 22:44

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC1
 Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-1
 Matrix: SOIL
 Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
STYRENE	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMOFORM	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMOFORM	ND		320	UG/KG	50	11/18/2010 22:44
ISOPROPYLBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
ISOPROPYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,2,3-TRICHLOROPROPANE	ND		320	UG/KG	50	11/18/2010 22:44
1,2,3-TRICHLOROPROPANE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,1,2,2-TETRACHLOROETHANE	ND		320	UG/KG	50	11/18/2010 22:44
1,1,2,2-TETRACHLOROETHANE	ND		6.5	UG/KG	1	11/18/2010 23:07
BROMOBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
BROMOBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
N-PROPYLBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
N-PROPYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
2-CHLOROTOLUENE	ND		6.5	UG/KG	1	11/18/2010 23:07
2-CHLOROTOLUENE	ND		320	UG/KG	50	11/18/2010 22:44
1,3,5-TRIMETHYLBENZENE	1600		320	UG/KG	50	11/18/2010 22:44
1,3,5-TRIMETHYLBENZENE	480	E	6.5	UG/KG	1	11/18/2010 23:07
4-CHLOROTOLUENE	ND		320	UG/KG	50	11/18/2010 22:44
4-CHLOROTOLUENE	ND		6.5	UG/KG	1	11/18/2010 23:07
TERT-BUTYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
TERT-BUTYLBENZENE	6.5		6.5	UG/KG	1	11/18/2010 23:07
1,2,4-TRIMETHYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,2,4-TRIMETHYLBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
SEC-BUTYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
SEC-BUTYLBENZENE	8.9		6.5	UG/KG	1	11/18/2010 23:07
1,3-DICHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,3-DICHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
P-ISOPROPYLTOLUENE	42		6.5	UG/KG	1	11/18/2010 23:07
P-ISOPROPYLTOLUENE	190	J	320	UG/KG	50	11/18/2010 22:44
1,4-DICHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,4-DICHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
N-BUTYLBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
N-BUTYLBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DICHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,2-DICHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
1,2-DIBROMO-3-CHLOROPROPANE	ND		13	UG/KG	1	11/18/2010 23:07
1,2-DIBROMO-3-CHLOROPROPANE	ND		630	UG/KG	50	11/18/2010 22:44
1,2,4-TRICHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,2,4-TRICHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07
HEXACHLOROBUTADIENE	ND		320	UG/KG	50	11/18/2010 22:44
HEXACHLOROBUTADIENE	ND		6.5	UG/KG	1	11/18/2010 23:07
NAPHTHALENE	140	J	320	UG/KG	50	11/18/2010 22:44
NAPHTHALENE	6.8		6.5	UG/KG	1	11/18/2010 23:07
1,2,3-TRICHLOROBENZENE	ND		320	UG/KG	50	11/18/2010 22:44
1,2,3-TRICHLOROBENZENE	ND		6.5	UG/KG	1	11/18/2010 23:07

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC1
 Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-1
 Matrix: SOIL
 Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: DIBROMOFLUOROMETHANE	112		61-134	%REC	50	11/18/2010 22:44
Surr: DIBROMOFLUOROMETHANE	123		61-134	%REC	1	11/18/2010 23:07
Surr: TOLUENE-D8	95		57-135	%REC	50	11/18/2010 22:44
Surr: TOLUENE-D8	129		57-135	%REC	1	11/18/2010 23:07
Surr: 4-BROMOFLUOROBENZENE	92		52-151	%REC	50	11/18/2010 22:44
Surr: 4-BROMOFLUOROBENZENE	63		52-151	%REC	1	11/18/2010 23:07
ICP METALS			SW6010		Prep Date: 12/7/2010	PrepBy: BAS
BORON	ND		12	MG/KG	1	12/8/2010 15:36
CALCIUM	20000		120	MG/KG	1	12/8/2010 15:36
CHROMIUM	24		1.2	MG/KG	1	12/8/2010 15:36
IRON	46000		62	MG/KG	5	12/8/2010 16:53
LITHIUM	19		1.2	MG/KG	1	12/8/2010 15:36
MAGNESIUM	5600		120	MG/KG	1	12/8/2010 15:36
NICKEL	24		2.5	MG/KG	1	12/8/2010 15:36
POTASSIUM	2600		120	MG/KG	1	12/8/2010 15:36
SILICON	920		6.2	MG/KG	1	12/8/2010 15:36
SODIUM	3400		120	MG/KG	1	12/8/2010 15:36
VANADIUM	35		6.2	MG/KG	5	12/8/2010 16:53
BERYLLIUM	0.8		0.62	MG/KG	1	12/8/2010 15:36
ICPMS METALS			SW6020		Prep Date: 12/7/2010	PrepBy: BAS
ALUMINUM	1.2E+07		6200	UG/KG	10	12/8/2010 10:57
ANTIMONY	310		37	UG/KG	10	12/8/2010 10:57
ARSENIC	6400		250	UG/KG	10	12/8/2010 10:57
BARIUM	1000000		120	UG/KG	10	12/8/2010 10:57
CADMIUM	320		37	UG/KG	10	12/8/2010 10:57
COBALT	8500		120	UG/KG	10	12/8/2010 10:57
COPPER	27000		1200	UG/KG	10	12/8/2010 10:57
LEAD	14000		62	UG/KG	10	12/8/2010 10:57
MANGANESE	740000		250	UG/KG	10	12/8/2010 10:57
MOLYBDENUM	7700		120	UG/KG	10	12/8/2010 10:57
SELENIUM	940		120	UG/KG	10	12/8/2010 10:57
SILVER	70		12	UG/KG	10	12/8/2010 10:57
STRONTIUM	340000		120	UG/KG	10	12/8/2010 10:57
THALLIUM	220		25	UG/KG	10	12/8/2010 10:57
URANIUM	630		12	UG/KG	10	12/8/2010 10:57
ZINC	61000		2500	UG/KG	10	12/8/2010 10:57
ION CHROMATOGRAPHY			EPA300.0		Prep Date: 11/15/2010	PrepBy: EAL
BROMIDE	ND		2.6	MG/KG	1	11/15/2010 16:37
CHLORIDE	270		13	MG/KG	5	11/15/2010 17:21
FLUORIDE	8.4		1.3	MG/KG	1	11/15/2010 16:37
NITRATE AS N	ND		2.6	MG/KG	1	11/15/2010 16:37
NITRITE AS N	ND		1.3	MG/KG	1	11/15/2010 16:37
SULFATE	17		13	MG/KG	1	11/15/2010 16:37

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC1
Collection Date: 11/7/2010 15:04

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-1
Matrix: SOIL
Percent Moisture: 22.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PH			EPA150.1		Prep Date: 11/19/2010	PrepBy: JBM
PH	8.98		0.1	pH	1	11/19/2010
SPECIFIC CONDUCTANCE IN WATER			EPA120.1		Prep Date: 11/19/2010	PrepBy: JBM
SPECIFIC CONDUCTIVITY	535	*	1	umhos/cm	1	11/19/2010

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC2
Collection Date: 11/7/2010 15:25

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-2
Matrix: SOIL
Percent Moisture: 14.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			SW8260		Prep Date: 11/18/2010	PrepBy: SDW
DICHLORODIFLUOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CHLOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
VINYL CHLORIDE	ND		5.8	UG/KG	1	11/18/2010 21:33
BROMOMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
TRICHLOROFLUOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1-DICHLOROETHENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
ACETONE	ND		23	UG/KG	1	11/18/2010 21:33
IODOMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CARBON DISULFIDE	ND		5.8	UG/KG	1	11/18/2010 21:33
METHYLENE CHLORIDE	ND		5.8	UG/KG	1	11/18/2010 21:33
TRANS-1,2-DICHLOROETHENE	ND		5.8	UG/KG	1	11/18/2010 21:33
METHYL TERTIARY BUTYL ETHER	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1-DICHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
VINYL ACETATE	ND		23	UG/KG	1	11/18/2010 21:33
CIS-1,2-DICHLOROETHENE	ND		5.8	UG/KG	1	11/18/2010 21:33
2-BUTANONE	ND		23	UG/KG	1	11/18/2010 21:33
BROMOCHLOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CHLOROFORM	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1,1-TRICHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
2,2-DICHLOROPROPANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CARBON TETRACHLORIDE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1-DICHLOROPROPENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2-DICHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
BENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
TRICHLOROETHENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2-DICHLOROPROPANE	ND		5.8	UG/KG	1	11/18/2010 21:33
DIBROMOMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
BROMODICHLOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CIS-1,3-DICHLOROPROPENE	ND		5.8	UG/KG	1	11/18/2010 21:33
4-METHYL-2-PENTANONE	ND		23	UG/KG	1	11/18/2010 21:33
TOLUENE	ND		5.8	UG/KG	1	11/18/2010 21:33
TRANS-1,3-DICHLOROPROPENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1,2-TRICHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
2-HEXANONE	ND		23	UG/KG	1	11/18/2010 21:33
TETRACHLOROETHENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,3-DICHLOROPROPANE	ND		5.8	UG/KG	1	11/18/2010 21:33
DIBROMOCHLOROMETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2-DIBROMOETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
1-CHLOROHEXANE	ND		5.8	UG/KG	1	11/18/2010 21:33
CHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1,1,2-TETRACHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
 Project: BBC Pipeline-Epperly
 Sample ID: BBC-EP-PL-COGCC2
 Collection Date: 11/7/2010 15:25

Date: 14-Dec-10
 Work Order: 1011137
 Lab ID: 1011137-2
 Matrix: SOIL
 Percent Moisture: 14.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ETHYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
M+P-XYLENE	ND		5.8	UG/KG	1	11/18/2010 21:33
O-XYLENE	ND		5.8	UG/KG	1	11/18/2010 21:33
STYRENE	ND		5.8	UG/KG	1	11/18/2010 21:33
BROMOFORM	ND		5.8	UG/KG	1	11/18/2010 21:33
ISOPROPYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2,3-TRICHLOROPROPANE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,1,2,2-TETRACHLOROETHANE	ND		5.8	UG/KG	1	11/18/2010 21:33
BROMOBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
N-PROPYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
2-CHLOROTOLUENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,3,5-TRIMETHYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
4-CHLOROTOLUENE	ND		5.8	UG/KG	1	11/18/2010 21:33
TERT-BUTYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2,4-TRIMETHYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
SEC-BUTYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,3-DICHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
P-ISOPROPYLTOLUENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,4-DICHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
N-BUTYLBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2-DICHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2-DIBROMO-3-CHLOROPROPANE	ND		12	UG/KG	1	11/18/2010 21:33
1,2,4-TRICHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
HEXACHLOROBUTADIENE	ND		5.8	UG/KG	1	11/18/2010 21:33
NAPHTHALENE	ND		5.8	UG/KG	1	11/18/2010 21:33
1,2,3-TRICHLOROBENZENE	ND		5.8	UG/KG	1	11/18/2010 21:33
Surr: DIBROMOFLUOROMETHANE	107		61-134	%REC	1	11/18/2010 21:33
Surr: TOLUENE-D8	106		57-135	%REC	1	11/18/2010 21:33
Surr: 4-BROMOFLUOROBENZENE	107		52-151	%REC	1	11/18/2010 21:33
ICP METALS			SW6010		Prep Date: 12/7/2010	PrepBy: BAS
BORON	ND		12	MG/KG	1	12/8/2010 15:38
CALCIUM	20000		120	MG/KG	1	12/8/2010 15:38
CHROMIUM	8.9		1.2	MG/KG	1	12/8/2010 15:38
IRON	18000		12	MG/KG	1	12/8/2010 15:38
LITHIUM	13		1.2	MG/KG	1	12/8/2010 15:38
MAGNESIUM	4600		120	MG/KG	1	12/8/2010 15:38
NICKEL	12		2.4	MG/KG	1	12/8/2010 15:38
POTASSIUM	1400		120	MG/KG	1	12/8/2010 15:38
SILICON	800		5.9	MG/KG	1	12/8/2010 15:38
SODIUM	2000		120	MG/KG	1	12/8/2010 15:38
VANADIUM	19		1.2	MG/KG	1	12/8/2010 15:38
BERYLLIUM	0.63		0.59	MG/KG	1	12/8/2010 15:38
ICPMS METALS			SW6020		Prep Date: 12/7/2010	PrepBy: BAS
ALUMINUM	9800000		5900	UG/KG	10	12/8/2010 11:00

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC2
Collection Date: 11/7/2010 15:25

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-2
Matrix: SOIL
Percent Moisture: 14.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANTIMONY	170		35	UG/KG	10	12/8/2010 11:00
ARSENIC	5700		240	UG/KG	10	12/8/2010 11:00
BARIUM	220000		120	UG/KG	10	12/8/2010 11:00
CADMIUM	280		35	UG/KG	10	12/8/2010 11:00
COBALT	6100		120	UG/KG	10	12/8/2010 11:00
COPPER	12000		1200	UG/KG	10	12/8/2010 11:00
LEAD	12000		59	UG/KG	10	12/8/2010 11:00
MANGANESE	400000		240	UG/KG	10	12/8/2010 11:00
MOLYBDENUM	810		120	UG/KG	10	12/8/2010 11:00
SELENIUM	810		120	UG/KG	10	12/8/2010 11:00
SILVER	41		12	UG/KG	10	12/8/2010 11:00
STRONTIUM	82000		120	UG/KG	10	12/8/2010 11:00
THALLIUM	160		24	UG/KG	10	12/8/2010 11:00
URANIUM	760		12	UG/KG	10	12/8/2010 11:00
ZINC	47000		2400	UG/KG	10	12/8/2010 11:00
ION CHROMATOGRAPHY			EPA300.0		Prep Date: 11/15/2010	PrepBy: EAL
BROMIDE	2.9		2.3	MG/KG	1	11/15/2010 17:10
CHLORIDE	570		12	MG/KG	5	11/15/2010 17:55
FLUORIDE	6.1		1.2	MG/KG	1	11/15/2010 17:10
NITRATE AS N	ND		2.3	MG/KG	1	11/15/2010 17:10
NITRITE AS N	ND		1.2	MG/KG	1	11/15/2010 17:10
SULFATE	18		12	MG/KG	1	11/15/2010 17:10
PH			EPA150.1		Prep Date: 11/19/2010	PrepBy: JBM
PH	9.08		0.1	pH	1	11/19/2010
SPECIFIC CONDUCTANCE IN WATER			EPA120.1		Prep Date: 11/19/2010	PrepBy: JBM
SPECIFIC CONDUCTIVITY	442		1	umhos/cm	1	11/19/2010

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC-HAW
Collection Date: 11/7/2010 15:35

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-3
Matrix: WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS						
GASOLINE RANGE ORGANICS	ND		SW8015	0.1 MG/KG	1	11/16/2010 23:10
Surr: 2,3,4-TRIFLUOROTOLUENE	94		74-129	%REC	1	11/16/2010 23:10
GC/MS VOLATILES						
DICHLORODIFLUOROMETHANE	ND		SW8260_25	1 UG/L	1	11/11/2010 14:55
CHLOROMETHANE	ND			1 UG/L	1	11/11/2010 14:55
VINYL CHLORIDE	ND			1 UG/L	1	11/11/2010 14:55
BROMOMETHANE	ND			1 UG/L	1	11/11/2010 14:55
CHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
TRICHLOROFLUOROMETHANE	ND			1 UG/L	1	11/11/2010 14:55
1,1-DICHLOROETHENE	ND			1 UG/L	1	11/11/2010 14:55
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
ACETONE	13		10	UG/L	1	11/11/2010 14:55
IODOMETHANE	ND			1 UG/L	1	11/11/2010 14:55
CARBON DISULFIDE	ND			1 UG/L	1	11/11/2010 14:55
METHYLENE CHLORIDE	ND			1 UG/L	1	11/11/2010 14:55
TRANS-1,2-DICHLOROETHENE	ND			1 UG/L	1	11/11/2010 14:55
METHYL TERTIARY BUTYL ETHER	ND			1 UG/L	1	11/11/2010 14:55
1,1-DICHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
VINYL ACETATE	ND			2 UG/L	1	11/11/2010 14:55
CIS-1,2-DICHLOROETHENE	ND			1 UG/L	1	11/11/2010 14:55
2-BUTANONE	ND			10 UG/L	1	11/11/2010 14:55
BROMOCHLOROMETHANE	ND			1 UG/L	1	11/11/2010 14:55
CHLOROFORM	ND			1 UG/L	1	11/11/2010 14:55
1,1,1-TRICHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
2,2-DICHLOROPROPANE	ND			1 UG/L	1	11/11/2010 14:55
CARBON TETRACHLORIDE	ND			1 UG/L	1	11/11/2010 14:55
1,1-DICHLOROPROPENE	ND			1 UG/L	1	11/11/2010 14:55
1,2-DICHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
BENZENE	ND			1 UG/L	1	11/11/2010 14:55
TRICHLOROETHENE	ND			1 UG/L	1	11/11/2010 14:55
1,2-DICHLOROPROPANE	ND			1 UG/L	1	11/11/2010 14:55
DIBROMOMETHANE	ND			1 UG/L	1	11/11/2010 14:55
BROMODICHLOROMETHANE	ND			1 UG/L	1	11/11/2010 14:55
CIS-1,3-DICHLOROPROPENE	ND			1 UG/L	1	11/11/2010 14:55
4-METHYL-2-PENTANONE	ND			10 UG/L	1	11/11/2010 14:55
TOLUENE	ND			1 UG/L	1	11/11/2010 14:55
TRANS-1,3-DICHLOROPROPENE	ND			1 UG/L	1	11/11/2010 14:55
1,1,2-TRICHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
2-HEXANONE	ND			10 UG/L	1	11/11/2010 14:55
TETRACHLOROETHENE	ND			1 UG/L	1	11/11/2010 14:55
1,3-DICHLOROPROPANE	ND			1 UG/L	1	11/11/2010 14:55
DIBROMOCHLOROMETHANE	ND			1 UG/L	1	11/11/2010 14:55

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC-HAW
Collection Date: 11/7/2010 15:35

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-3
Matrix: WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,2-DIBROMOETHANE	ND			1 UG/L	1	11/11/2010 14:55
1-CHLOROHEXANE	ND			1 UG/L	1	11/11/2010 14:55
CHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,1,1,2-TETRACHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
ETHYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
M+P-XYLENE	0.21	J		1 UG/L	1	11/11/2010 14:55
O-XYLENE	ND			1 UG/L	1	11/11/2010 14:55
STYRENE	ND			1 UG/L	1	11/11/2010 14:55
BROMOFORM	ND			1 UG/L	1	11/11/2010 14:55
ISOPROPYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,2,3-TRICHLOROPROPANE	ND			1 UG/L	1	11/11/2010 14:55
1,1,2,2-TETRACHLOROETHANE	ND			1 UG/L	1	11/11/2010 14:55
BROMOBENZENE	ND			1 UG/L	1	11/11/2010 14:55
N-PROPYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
2-CHLOROTOLUENE	ND			1 UG/L	1	11/11/2010 14:55
1,3,5-TRIMETHYLBENZENE	0.71	J		1 UG/L	1	11/11/2010 14:55
4-CHLOROTOLUENE	ND			1 UG/L	1	11/11/2010 14:55
TERT-BUTYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,2,4-TRIMETHYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
SEC-BUTYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,3-DICHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
P-ISOPROPYLTOLUENE	ND			1 UG/L	1	11/11/2010 14:55
1,4-DICHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
N-BUTYLBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,2-DICHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
1,2-DIBROMO-3-CHLOROPROPANE	ND			2 UG/L	1	11/11/2010 14:55
1,2,4-TRICHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
HEXACHLOROBUTADIENE	ND			1 UG/L	1	11/11/2010 14:55
NAPHTHALENE	ND			1 UG/L	1	11/11/2010 14:55
1,2,3-TRICHLOROBENZENE	ND			1 UG/L	1	11/11/2010 14:55
Surr: DIBROMOFLUOROMETHANE	100		84-118	%REC	1	11/11/2010 14:55
Surr: TOLUENE-D8	93		85-115	%REC	1	11/11/2010 14:55
Surr: 4-BROMOFLUOROBENZENE	95		85-115	%REC	1	11/11/2010 14:55

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC-HAW
Collection Date: 11/7/2010 15:35

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-3
Matrix: WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers

Radiochemistry:

U - Result is less than the sample specific MDC.	M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.	L - LCS Recovery below lower control limit.
Y2 - Chemical Yield outside default limits.	H - LCS Recovery above upper control limit.
W - DER is greater than Warning Limit of 1.42	P - LCS, Matrix Spike Recovery within control limits.
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.	N - Matrix Spike Recovery outside control limits
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.	NC - Not Calculated for duplicate results less than 5 times MDC
G - Sample density differs by more than 15% of LCS density.	B - Analyte concentration greater than MDC.
D - DER is greater than Control Limit	B3 - Analyte concentration greater than MDC but less than Requested MDC.
M - Requested MDC not met.	

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
 U - Indicates that the compound was analyzed for but not detected.
 E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
 M - Duplicate injection precision was not met.
 N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
 Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
 * - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U - Indicates that the compound was analyzed for but not detected.
 B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
 E - Analyte concentration exceeds the upper level of the calibration range.
 J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
 A - A tentatively identified compound is a suspected aldol-condensation product.
 X - The analyte was diluted below an accurate quantitation level.
 * - The spike recovery is equal to or outside the control criteria used.
 + - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client: COGCC
Project: BBC Pipeline-Epperly
Sample ID: BBC-EP-PL-COGCC-HAW
Collection Date: 11/7/2010 15:35

Date: 14-Dec-10
Work Order: 1011137
Lab ID: 1011137-3
Matrix: WATER

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
G - A pattern resembling gasoline was detected in this sample.						
D - A pattern resembling diesel was detected in this sample.						
M - A pattern resembling motor oil was detected in this sample.						
C - A pattern resembling crude oil was detected in this sample.						
4 - A pattern resembling JP-4 was detected in this sample.						
5 - A pattern resembling JP-5 was detected in this sample.						
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.						
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.						
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:						
- gasoline						
- JP-8						
- diesel						
- mineral spirits						
- motor oil						
- Stoddard solvent						
- bunker C						

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Date: 12/14/2010 12:2

Client: COGCC

QC BATCH REPORT

Work Order: 1011137

Project: BBC Pipeline-Epperly

Batch ID: HCG101116-1-1

Instrument ID: FUELS-1

Method: SW8015

LCS	Sample ID: HCG101116-1				Units: MG/KG		Analysis Date: 11/16/2010 17:15			
Client ID:	Run ID: HCD101116-1A						Prep Date: 11/16/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	5.25	0.5	5		105	79-118			20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.482		0.5		96	76-126				

LCSD	Sample ID: HCG101116-1				Units: MG/KG		Analysis Date: 11/16/2010 19:44			
Client ID:	Run ID: HCD101116-1A						Prep Date: 11/16/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	5.39	0.5	5		108	79-118	5.25	3	20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.486		0.5		97	76-126		1		

MB	Sample ID: HCG101116-1				Units: MG/KG		Analysis Date: 11/16/2010 17:44			
Client ID:	Run ID: HCD101116-1A						Prep Date: 11/16/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.5								
Surr: 2,3,4-TRIFLUOROTOLUEN	0.471		0.5		94	76-126				

MS	Sample ID: 1011137-1				Units: MG/KG		Analysis Date: 11/16/2010 19:13			
Client ID: BBC-EP-PL-COGCC1		Run ID: HCD101116-1A				Prep Date: 11/16/2010		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	83.9	1.2	12	54	251	79-118			40	*
Surr: 2,3,4-TRIFLUOROTOLUEN	2.65		1.2		221	76-126				*

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **HCG101116-2-1** Instrument ID: **FUELS-1** Method: **SW8015**

LCS	Sample ID: HCG101116-2				Units: MG/KG		Analysis Date: 11/16/2010 20:14			
Client ID:	Run ID: HCD101116-1A				Prep Date: 11/16/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1.08	0.1	1		108	79-118			20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.1		0.1		100	74-129				

LCSD	Sample ID: HCG101116-2				Units: MG/KG		Analysis Date: 11/16/2010 23:39			
Client ID:	Run ID: HCD101116-1A				Prep Date: 11/16/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1.06	0.1	1		106	79-118	1.08	2	20	
Surr: 2,3,4-TRIFLUOROTOLUEN	0.0982		0.1		98	74-129		2		

MB		Sample ID: HCG101116-2				Units: MG/KG		Analysis Date: 11/16/2010 20:43		
Client ID:		Run ID: HCD101116-1A				Prep Date: 11/16/2010		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS		ND	0.1							
Surr: 2,3,4-TRIFLUOROTOLUEN		0.0931	0.1		93	74-129				

The following samples were analyzed in this batch:

1011137-1 1011137-3

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **IP101207-4-2** Instrument ID: **ICPMS2** Method: **SW6020**

LCS	Sample ID: IM101207-4				Units: UG/KG		Analysis Date: 12/8/2010 10:55			
Client ID:	Run ID: IM101208-10A1				Prep Date: 12/7/2010			DF: 10		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	496000	5000	500000		99	80-120			20	
ANTIMONY	2850	30	3000		95	80-120			20	
ARSENIC	9840	200	10000		98	80-120			20	
BARIUM	10400	100	10000		104	80-120			20	
CADMIUM	3100	30	3000		103	80-120			20	
COBALT	10300	100	10000		103	80-120			20	
COPPER	101000	1000	100000		101	80-120			20	
LEAD	5100	50	5000		102	80-120			20	
MANGANESE	20900	200	20000		105	80-120			20	
MOLYBDENUM	10300	100	10000		103	80-120			20	
SELENIUM	10500	100	10000		105	80-120			20	
SILVER	1000	10	1000		100	80-120			20	
STRONTIUM	49400	100	50000		99	80-120			20	
THALLIUM	115	20	100		115	80-120			20	
URANIUM	1020	10	1000		102	80-120			20	
ZINC	203000	2000	200000		101	80-120			20	

MB		Sample ID: IP101207-4			Units: UG/KG		Analysis Date: 12/8/2010 10:50			
Client ID:		Run ID: IM101208-10A1			Prep Date: 12/7/2010			DF: 10		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
ALUMINUM	ND	5000								
ANTIMONY	ND	30								
ARSENIC	ND	200								
BARIUM	ND	100								
CADMIUM	ND	30								
COBALT	ND	100								
COPPER	ND	1000								
LEAD	ND	50								
MANGANESE	ND	200								
MOLYBDENUM	ND	100								
SELENIUM	ND	100								
SILVER	ND	10								
STRONTIUM	ND	100								
THALLIUM	ND	20								
URANIUM	ND	10								
ZINC	ND	2000								

The following samples were analyzed in this batch:

1011137-1 1011137-2

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **IP101207-4-1** Instrument ID: **ICPTrace2** Method: **SW6010**

LCS	Sample ID: IP101207-4				Units: MG/KG		Analysis Date: 12/8/2010 15:35			
Client ID:		Run ID: IT101208-2A9				Prep Date: 12/7/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BERYLLIUM	4.87	0.5	5		97	80-120			20	
BORON	92	10	100		92	80-120			20	
CALCIUM	4440	100	4000		111	80-120			20	
CHROMIUM	20.3	1	20		101	80-120			20	
IRON	103	10	100		103	80-120			20	
LITHIUM	46.3	1	50		93	80-120			20	
MAGNESIUM	3550	100	4000		89	80-120			20	
NICKEL	48.3	2	50		97	80-120			20	
POTASSIUM	3540	100	4000		88	80-120			20	
SILICON	186	5	200		93	80-120			20	
SODIUM	3610	100	4000		90	80-120			20	
VANADIUM	50.5	1	50		101	80-120			20	

MB		Sample ID: IP101207-4				Units: MG/KG		Analysis Date: 12/8/2010 15:31			
Client ID:		Run ID: IT101208-2A9				Prep Date: 12/7/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual	
BERYLLIUM	ND	0.5									
BORON	ND	10									
CALCIUM	ND	100									
CHROMIUM	ND	1									
IRON	ND	10									
LITHIUM	ND	1									
MAGNESIUM	ND	100									
NICKEL	ND	2									
POTASSIUM	ND	100									
SILICON	ND	5									
SODIUM	ND	100									
VANADIUM	ND	1									

The following samples were analyzed in this batch:

1011137-1 1011137-2

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: EX101117-3-1 Instrument ID: HPSV1 Method: SW8270

LCS		Sample ID: EX101117-3		Units: UG/KG		Analysis Date: 11/29/2010 09:34				
Client ID:		Run ID: SV101129-2		Prep Date: 11/17/2010		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
PYRIDINE	1220	333	2000		61	10-125			20	
N-NITROSODIMETHYLAMINE	1490	333	2000		74	18-114			20	
ANILINE	1430	333	2000		71	25-125			20	
PHENOL	1610	333	2000		81	52-124			20	
BIS(2-CHLOROETHYL)ETHER	1610	333	2000		81	38-105			20	
2-CHLOROPHENOL	1600	333	2000		80	59-121			20	
1,3-DICHLOROBENZENE	1540	333	2000		77	39-100			20	
1,4-DICHLOROBENZENE	1550	333	2000		77	62-113			20	
1,2-DICHLOROBENZENE	1570	333	2000		79	45-97			20	
BENZYL ALCOHOL	1560	333	2000		78	19-123			20	
BIS(2-CHLOROISOPROPYL)ETHE	1700	333	2000		85	21-115			20	
2-METHYLPHENOL	1550	333	2000		77	40-104			20	
N-NITROSO-DI-N-PROPYLAMINE	1590	333	2000		79	52-136			20	
3+4-METHYLPHENOL	1400	333	2000		70	41-107			20	
HEXACHLOROETHANE	1690	333	2000		84	34-110			20	
NITROBENZENE	1520	333	2000		76	41-113			20	
ISOPHORONE	1720	333	2000		86	43-111			20	
2-NITROPHENOL	1720	333	2000		86	42-111			20	
2,4-DIMETHYLPHENOL	1220	333	2000		61	32-103			20	
BIS(2-CHLOROETHOXY)METHAN	1660	333	2000		83	43-108			20	
2,4-DICHLOROPHENOL	1690	333	2000		84	45-110			20	
BENZOIC ACID	1100	1670	3330		33	10-125			20	J
1,2,4-TRICHLOROBENZENE	1650	333	2000		82	55-120			20	
NAPHTHALENE	1690	333	2000		84	40-107			20	
4-CHLOROANILINE	1570	333	2000		79	25-125			20	
HEXACHLOROBUTADIENE	1770	333	2000		88	40-117			20	
4-CHLORO-3-METHYLPHENOL	1860	333	2000		93	68-111			20	
2-METHYLNAPHTHALENE	1660	333	2000		83	47-107			20	
1-METHYLNAPHTHALENE	1710	333	2000		86	47-107			20	
HEXACHLOROCYCLOPENTADIEN	991	333	2000		50	10-125			20	
2,4,6-TRICHLOROPHENOL	1780	333	2000		89	43-109			20	
2,4,5-TRICHLOROPHENOL	1770	333	2000		89	49-111			20	
2-CHLORONAPHTHALENE	1750	333	2000		88	45-105			20	
2-NITROANILINE	1980	667	2000		99	44-118			20	
DIMETHYL PHTHALATE	1760	333	2000		88	49-110			20	
2,6-DINITROTOLUENE	1810	333	2000		90	48-112			20	
ACENAPHTHYLENE	1820	333	2000		91	44-107			20	
3-NITROANILINE	1700	667	2000		85	27-110			20	
ACENAPHTHENE	1800	333	2000		90	69-105			20	
2,4-DINITROPHENOL	1830	667	2000		91	13-132			20	
4-NITROPHENOL	1960	667	2000		98	5-148			20	
DIBENZOFURAN	1730	333	2000		87	51-103			20	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: EX101117-3-1 Instrument ID: HPSV1 Method: SW8270

LCS		Sample ID: EX101117-3		Units: UG/KG		Analysis Date: 11/29/2010 09:34				
Client ID:		Run ID: SV101129-2		Prep Date: 11/17/2010		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
2,4-DINITROTOLUENE	1860	333	2000		93	58-102			20	
DIETHYL PHTHALATE	1870	333	2000		94	50-114			20	
FLUORENE	1850	333	2000		93	49-108			20	
4-CHLOROPHENYL PHENYL ETH	1840	333	2000		92	47-112			20	
4-NITROANILINE	1690	667	2000		84	34-113			20	
AZOBENZENE	1910	333	2000		95	25-122			20	
4,6-DINITRO-2-METHYLPHENOL	1950	667	2000		98	29-137			20	
N-NITROSODIPHENYLAMINE	1680	333	2000		84	49-116			20	
4-BROMOPHENYL PHENYL ETHE	1680	333	2000		84	46-117			20	
HEXACHLOROBENZENE	1720	333	2000		86	47-118			20	
2,3,4,6-TETRACHLOROPHENOL	2850	333	3330		86	11-120			20	
PENTACHLOROPHENOL	1710	667	2000		85	38-134			20	
PHENANTHRENE	1830	333	2000		92	50-110			20	
ANTHRACENE	1840	333	2000		92	53-107			20	
CARBAZOLE	1720	333	2000		86	44-117			20	
DI-N-BUTYL PHTHALATE	1850	333	2000		93	56-110			20	
FLUORANTHENE	1990	333	2000		99	54-114			20	
PYRENE	1740	333	2000		87	58-114			20	
BUTYL BENZYL PHTHALATE	1710	333	2000		85	49-123			20	
BENZO(A)ANTHRACENE	1760	333	2000		88	52-111			20	
3,3'-DICHLOROBENZIDINE	1380	333	2000		69	25-125			20	
CHRYSENE	1830	333	2000		91	53-112			20	
BIS(2-ETHYLHEXYL)PHTHALATE	1770	333	2000		88	47-127			20	
DI-N-OCTYL PHTHALATE	1870	333	2000		94	41-132			20	
BENZO(B)FLUORANTHENE	1800	333	2000		90	45-114			20	
BENZO(K)FLUORANTHENE	1720	333	2000		86	45-123			20	
BENZO(A)PYRENE	1720	333	2000		86	50-111			20	
INDENO(1,2,3-CD)PYRENE	1860	333	2000		93	38-121			20	
DIBENZO(A,H)ANTHRACENE	1890	333	2000		94	41-125			20	
BENZO(G,H,I)PERYLENE	1640	333	2000		82	38-126			20	
Surr: 2-FLUOROPHENOL	1870		2500		75	36-132				
Surr: PHENOL-D5	2010		2500		80	47-120				
Surr: NITROBENZENE-D5	1380		1670		83	43-132				
Surr: 2-FLUOROBIPHENYL	1360		1670		81	56-122				
Surr: 2,4,6-TRIBROMOPHENOL	2070		2500		83	51-118				
Surr: TERPHENYL-D14	1420		1670		85	29-163				

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: EX101117-3-1 Instrument ID: HPSV1 Method: SW8270

MB Sample ID: EX101117-3 Units: UG/KG Analysis Date: 11/29/2010 09:09
Client ID: Run ID: SV101129-2 Prep Date: 11/17/2010 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
PYRIDINE	ND	330								
N-NITROSODIMETHYLAMINE	ND	330								
ANILINE	ND	330								
PHENOL	ND	330								
BIS(2-CHLOROETHYL)ETHER	ND	330								
2-CHLOROPHENOL	ND	330								
1,3-DICHLOROBENZENE	ND	330								
1,4-DICHLOROBENZENE	ND	330								
1,2-DICHLOROBENZENE	ND	330								
BENZYL ALCOHOL	ND	330								
BIS(2-CHLOROISOPROPYL)ETHE	ND	330								
2-METHYLPHENOL	ND	330								
N-NITROSO-DI-N-PROPYLAMINE	ND	330								
3+4-METHYLPHENOL	ND	330								
HEXACHLOROETHANE	ND	330								
NITROBENZENE	ND	330								
ISOPHORONE	ND	330								
2-NITROPHENOL	ND	330								
2,4-DIMETHYLPHENOL	ND	330								
BIS(2-CHLOROETHOXY)METHAN	ND	330								
2,4-DICHLOROPHENOL	ND	330								
BENZOIC ACID	ND	1700								
1,2,4-TRICHLOROBENZENE	ND	330								
NAPHTHALENE	ND	330								
4-CHLOROANILINE	ND	330								
HEXACHLOROBUTADIENE	ND	330								
4-CHLORO-3-METHYLPHENOL	ND	330								
2-METHYLNAPHTHALENE	ND	330								
1-METHYLNAPHTHALENE	ND	330								
HEXACHLOROCYCLOPENTADIEN	ND	330								
2,4,6-TRICHLOROPHENOL	ND	330								
2,4,5-TRICHLOROPHENOL	ND	330								
2-CHLORONAPHTHALENE	ND	330								
2-NITROANILINE	ND	670								
DIMETHYL PHTHALATE	ND	330								
2,6-DINITROTOLUENE	ND	330								
ACENAPHTHYLENE	ND	330								
3-NITROANILINE	ND	670								
ACENAPHTHENE	ND	330								
2,4-DINITROPHENOL	ND	670								
4-NITROPHENOL	ND	670								
DIBENZOFURAN	ND	330								

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: EX101117-3-1 Instrument ID: HPSV1 Method: SW8270

MB Sample ID: EX101117-3 Units: UG/KG Analysis Date: 11/29/2010 09:09

Client ID: Run ID: SV101129-2 Prep Date: 11/17/2010 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
2,4-DINITROTOLUENE	ND	330								
DIETHYL PHTHALATE	ND	330								
FLUORENE	ND	330								
4-CHLOROPHENYL PHENYL ETH	ND	330								
4-NITROANILINE	ND	670								
AZOBENZENE	ND	330								
4,6-DINITRO-2-METHYLPHENOL	ND	670								
N-NITROSODIPHENYLAMINE	ND	330								
4-BROMOPHENYL PHENYL ETHE	ND	330								
HEXACHLOROBENZENE	ND	330								
2,3,4,6-TETRACHLOROPHENOL	ND	330								
PENTACHLOROPHENOL	ND	670								
PHENANTHRENE	ND	330								
ANTHRACENE	ND	330								
CARBAZOLE	ND	330								
DI-N-BUTYL PHTHALATE	ND	330								
FLUORANTHENE	ND	330								
PYRENE	ND	330								
BUTYL BENZYL PHTHALATE	ND	330								
BENZO(A)ANTHRACENE	ND	330								
3,3'-DICHLOOROBENZIDINE	ND	330								
CHRYSENE	ND	330								
BIS(2-ETHYLHEXYL)PHTHALATE	ND	330								
DI-N-OCTYL PHTHALATE	ND	330								
BENZO(B)FLUORANTHENE	ND	330								
BENZO(K)FLUORANTHENE	ND	330								
BENZO(A)PYRENE	ND	330								
INDENO(1,2,3-CD)PYRENE	ND	330								
DIBENZO(A,H)ANTHRACENE	ND	330								
BENZO(G,H,I)PERYLENE	ND	330								
Surr: 2-FLUOROPHENOL	1790		2500		72	36-132				
Surr: PHENOL-D5	1870		2500		75	47-120				
Surr: NITROBENZENE-D5	1280		1670		77	43-132				
Surr: 2-FLUOROBIPHENYL	1250		1670		75	56-122				
Surr: 2,4,6-TRIBROMOPHENOL	1710		2500		69	51-118				
Surr: TERPHENYL-D14	1550		1670		93	29-163				

The following samples were analyzed in this batch:

1011137-1

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

LCS		Sample ID: VL101111-2			Units: UG/L		Analysis Date: 11/11/2010 12:19			
Client ID:		Run ID: VL101111-2A				Prep Date: 11/11/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	10.9	1	10		109	63-125			20	
CHLOROMETHANE	10.9	1	10		109	73-122			20	
VINYL CHLORIDE	11.5	1	10		115	72-123			20	
BROMOMETHANE	10.7	1	10		107	68-123			20	
CHLOROETHANE	9.8	1	10		98	74-124			20	
TRICHLOROFLUOROMETHANE	10.6	1	10		106	74-124			20	
1,1-DICHLOROETHENE	9.77	1	10		98	77-119			20	
1,1,2-TRICHLORO-1,2,2-TRIFLUO	10.3	1	10		103	79-122			20	
ACETONE	38.2	10	40		96	62-142			30	
IODOMETHANE	10.1	1	10		101	72-126			20	
CARBON DISULFIDE	10.1	1	10		101	76-121			20	
METHYLENE CHLORIDE	12.9	1	10		129	71-130			20	
TRANS-1,2-DICHLOROETHENE	9.74	1	10		97	82-117			20	
METHYL TERTIARY BUTYL ETHE	19.6	1	20		98	77-119			20	
1,1-DICHLOROETHANE	10.2	1	10		102	83-119			20	
VINYL ACETATE	10.3	2	10		103	76-121			20	
CIS-1,2-DICHLOROETHENE	9.52	1	10		95	83-117			20	
2-BUTANONE	37.8	10	40		94	70-135			30	
BROMOCHLOROMETHANE	9.49	1	10		95	83-121			20	
CHLOROFORM	10.1	1	10		101	82-119			20	
1,1,1-TRICHLOROETHANE	10.2	1	10		102	80-120			20	
2,2-DICHLOROPROPANE	11	1	10		110	83-125			20	
CARBON TETRACHLORIDE	9.87	1	10		99	77-122			20	
1,1-DICHLOROPROPENE	10.3	1	10		103	84-118			20	
1,2-DICHLOROETHANE	10.8	1	10		108	74-128			20	
BENZENE	10.2	1	10		102	83-117			20	
TRICHLOROETHENE	10	1	10		100	83-117			20	
1,2-DICHLOROPROPANE	9.98	1	10		100	84-120			20	
DIBROMOMETHANE	9.51	1	10		95	79-122			20	
BROMODICHLOROMETHANE	9.9	1	10		99	76-122			20	
CIS-1,3-DICHLOROPROPENE	10.5	1	10		105	81-120			20	
4-METHYL-2-PENTANONE	37.7	10	40		94	73-125			30	
TOLUENE	9.28	1	10		93	82-113			20	
TRANS-1,3-DICHLOROPROPENE	9.9	1	10		99	81-114			20	
1,1,2-TRICHLOROETHANE	8.9	1	10		89	78-116			20	
2-HEXANONE	37.6	10	40		94	71-124			30	
TETRACHLOROETHENE	9.64	1	10		96	84-117			20	
1,3-DICHLOROPROPANE	9.85	1	10		99	80-115			20	
DIBROMOCHLOROMETHANE	9.38	1	10		94	82-118			20	
1,2-DIBROMOETHANE	9.23	1	10		92	79-114			20	
1-CHLOROHEXANE	9.32	1	10		93	80-117			20	
CHLOROBENZENE	9.37	1	10		94	81-113			20	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

LCS		Sample ID: VL101111-2			Units: UG/L		Analysis Date: 11/11/2010 12:19			
Client ID:		Run ID: VL101111-2A				Prep Date: 11/11/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	9.3	1	10		93	78-113			20	
ETHYLBENZENE	10	1	10		100	81-113			20	
M+P-XYLENE	19	1	20		95	82-115			20	
O-XYLENE	9.69	1	10		97	81-115			20	
STYRENE	9.22	1	10		92	78-118			20	
BROMOFORM	9.06	1	10		91	70-120			20	
ISOPROPYLBENZENE	9.45	1	10		94	80-113			20	
1,2,3-TRICHLOROPROPANE	9.53	1	10		95	78-117			20	
1,1,2,2-TETRACHLOROETHANE	9.42	1	10		94	75-121			20	
BROMOBENZENE	9.97	1	10		100	81-114			20	
N-PROPYLBENZENE	10.2	1	10		102	79-116			20	
2-CHLOROTOLUENE	9.74	1	10		97	79-116			20	
1,3,5-TRIMETHYLBENZENE	9.66	1	10		97	78-116			20	
4-CHLOROTOLUENE	9.92	1	10		99	78-115			20	
TERT-BUTYLBENZENE	9.27	1	10		93	76-120			20	
1,2,4-TRIMETHYLBENZENE	9.58	1	10		96	80-117			20	
SEC-BUTYLBENZENE	9.66	1	10		97	78-115			20	
1,3-DICHLOROBENZENE	10	1	10		100	79-115			20	
P-ISOPROPYLTOLUENE	9.39	1	10		94	77-116			20	
1,4-DICHLOROBENZENE	9.83	1	10		98	82-114			20	
N-BUTYLBENZENE	9.83	1	10		98	79-117			20	
1,2-DICHLOROBENZENE	9.82	1	10		98	82-114			20	
1,2-DIBROMO-3-CHLOROPROPAN	10	2	10		100	73-125			20	
1,2,4-TRICHLOROBENZENE	9.93	1	10		99	75-120			20	
HEXACHLOROBUTADIENE	9.25	1	10		92	71-124			20	
NAPHTHALENE	9.56	1	10		96	71-131			20	
1,2,3-TRICHLOROBENZENE	10.2	1	10		102	70-131			20	
Surr: DIBROMOFLUOROMETHA	25		25		100	84-118				
Surr: TOLUENE-D8	23.9		25		96	91-107				
Surr: 4-BROMOFLUOROBENZEN	24.1		25		97	85-115				

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

LCSD		Sample ID: VL101111-2			Units: UG/L		Analysis Date: 11/11/2010 12:41			
Client ID:		Run ID: VL101111-2A				Prep Date: 11/11/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	9.99	1	10		100	63-125	10.9	9	20	
CHLOROMETHANE	11.2	1	10		112	73-122	10.9	3	20	
VINYL CHLORIDE	11.2	1	10		112	72-123	11.5	2	20	
BROMOMETHANE	10.6	1	10		106	68-123	10.7	1	20	
CHLOROETHANE	9.83	1	10		98	74-124	9.8	0	20	
TRICHLOROFLUOROMETHANE	10	1	10		100	74-124	10.6	6	20	
1,1-DICHLOROETHENE	9.67	1	10		97	77-119	9.77	1	20	
1,1,2-TRICHLORO-1,2,2-TRIFLUO	10.3	1	10		103	79-122	10.3	0	20	
ACETONE	41	10	40		102	62-142	38.2	7	30	
IODOMETHANE	9.99	1	10		100	72-126	10.1	1	20	
CARBON DISULFIDE	10.1	1	10		101	76-121	10.1	0	20	
METHYLENE CHLORIDE	13.1	1	10		131	71-130	12.9	2	20	*
TRANS-1,2-DICHLOROETHENE	9.68	1	10		97	82-117	9.74	1	20	
METHYL TERTIARY BUTYL ETHE	19.7	1	20		98	77-119	19.6	0	20	
1,1-DICHLOROETHANE	10.1	1	10		101	83-119	10.2	1	20	
VINYL ACETATE	10.1	2	10		101	76-121	10.3	2	20	
CIS-1,2-DICHLOROETHENE	9.54	1	10		95	83-117	9.52	0	20	
2-BUTANONE	36.5	10	40		91	70-135	37.8	3	30	
BROMOCHLOROMETHANE	9.32	1	10		93	83-121	9.49	2	20	
CHLOROFORM	9.97	1	10		100	82-119	10.1	1	20	
1,1,1-TRICHLOROETHANE	9.82	1	10		98	80-120	10.2	4	20	
2,2-DICHLOROPROPANE	10.6	1	10		106	83-125	11	4	20	
CARBON TETRACHLORIDE	9.65	1	10		97	77-122	9.87	2	20	
1,1-DICHLOROPROPENE	10.2	1	10		102	84-118	10.3	1	20	
1,2-DICHLOROETHANE	10.7	1	10		107	74-128	10.8	1	20	
BENZENE	9.96	1	10		100	83-117	10.2	2	20	
TRICHLOROETHENE	9.55	1	10		95	83-117	10	5	20	
1,2-DICHLOROPROPANE	9.8	1	10		98	84-120	9.98	2	20	
DIBROMOMETHANE	9.6	1	10		96	79-122	9.51	1	20	
BROMODICHLOROMETHANE	9.91	1	10		99	76-122	9.9	0	20	
CIS-1,3-DICHLOROPROPENE	10.5	1	10		105	81-120	10.5	0	20	
4-METHYL-2-PENTANONE	38.3	10	40		96	73-125	37.7	2	30	
TOLUENE	9.29	1	10		93	82-113	9.28	0	20	
TRANS-1,3-DICHLOROPROPENE	10.1	1	10		101	81-114	9.9	2	20	
1,1,2-TRICHLOROETHANE	8.82	1	10		88	78-116	8.9	1	20	
2-HEXANONE	37.1	10	40		93	71-124	37.6	1	30	
TETRACHLOROETHENE	9.45	1	10		94	84-117	9.64	2	20	
1,3-DICHLOROPROPANE	9.68	1	10		97	80-115	9.85	2	20	
DIBROMOCHLOROMETHANE	9.37	1	10		94	82-118	9.38	0	20	
1,2-DIBROMOETHANE	9.35	1	10		94	79-114	9.23	1	20	
1-CHLOROHEXANE	9.33	1	10		93	80-117	9.32	0	20	
CHLOROBENZENE	9.37	1	10		94	81-113	9.37	0	20	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

LCSD		Sample ID: VL101111-2		Units: UG/L		Analysis Date: 11/11/2010 12:41				
Client ID:		Run ID: VL101111-2A		Prep Date: 11/11/2010		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	9.09	1	10		91	78-113	9.3	2	20	
ETHYLBENZENE	9.95	1	10		99	81-113	10	1	20	
M+P-XYLENE	18.4	1	20		92	82-115	19	3	20	
O-XYLENE	9.55	1	10		96	81-115	9.69	1	20	
STYRENE	9.27	1	10		93	78-118	9.22	1	20	
BROMOFORM	8.78	1	10		88	70-120	9.06	3	20	
ISOPROPYLBENZENE	9.43	1	10		94	80-113	9.45	0	20	
1,2,3-TRICHLOROPROPANE	9.2	1	10		92	78-117	9.53	4	20	
1,1,2,2-TETRACHLOROETHANE	9.76	1	10		98	75-121	9.42	4	20	
BROMOBENZENE	9.83	1	10		98	81-114	9.97	1	20	
N-PROPYLBENZENE	9.99	1	10		100	79-116	10.2	3	20	
2-CHLOROTOLUENE	9.7	1	10		97	79-116	9.74	0	20	
1,3,5-TRIMETHYLBENZENE	9.5	1	10		95	78-116	9.66	2	20	
4-CHLOROTOLUENE	9.62	1	10		96	78-115	9.92	3	20	
TERT-BUTYLBENZENE	9.46	1	10		95	76-120	9.27	2	20	
1,2,4-TRIMETHYLBENZENE	9.56	1	10		96	80-117	9.58	0	20	
SEC-BUTYLBENZENE	9.56	1	10		96	78-115	9.66	1	20	
1,3-DICHLOROBENZENE	9.96	1	10		100	79-115	10	1	20	
P-ISOPROPYLTOLUENE	9.53	1	10		95	77-116	9.39	1	20	
1,4-DICHLOROBENZENE	9.81	1	10		98	82-114	9.83	0	20	
N-BUTYLBENZENE	9.93	1	10		99	79-117	9.83	1	20	
1,2-DICHLOROBENZENE	9.97	1	10		100	82-114	9.82	1	20	
1,2-DIBROMO-3-CHLOROPROPAN	9.69	2	10		97	73-125	10	3	20	
1,2,4-TRICHLOROBENZENE	10.5	1	10		105	75-120	9.93	6	20	
HEXACHLOROBUTADIENE	10.1	1	10		101	71-124	9.25	9	20	
NAPHTHALENE	9.9	1	10		99	71-131	9.56	4	20	
1,2,3-TRICHLOROBENZENE	10.5	1	10		105	70-131	10.2	3	20	
Surr: DIBROMOFLUOROMETHA	24.5		25		98	84-118		2		
Surr: TOLUENE-D8	24.5		25		98	91-107		3		
Surr: 4-BROMOFLUOROBENZEN	24.6		25		98	85-115		2		

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

MB		Sample ID: VL101111-2		Units: UG/L		Analysis Date: 11/11/2010 13:26				
Client ID:		Run ID: VL101111-2A				Prep Date: 11/11/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	1								
CHLOROMETHANE	ND	1								
VINYL CHLORIDE	ND	1								
BROMOMETHANE	ND	1								
CHLOROETHANE	ND	1								
TRICHLOROFLUOROMETHANE	ND	1								
1,1-DICHLOROETHENE	ND	1								
1,1,2-TRICHLORO-1,2,2-TRIFLUO	ND	1								
ACETONE	ND	10								
IODOMETHANE	ND	1								
CARBON DISULFIDE	ND	1								
METHYLENE CHLORIDE	0.87	1								J
TRANS-1,2-DICHLOROETHENE	ND	1								
METHYL TERTIARY BUTYL ETHE	ND	1								
1,1-DICHLOROETHANE	ND	1								
VINYL ACETATE	ND	2								
CIS-1,2-DICHLOROETHENE	ND	1								
2-BUTANONE	ND	10								
BROMOCHLOROMETHANE	ND	1								
CHLOROFORM	ND	1								
1,1,1-TRICHLOROETHANE	ND	1								
2,2-DICHLOROPROPANE	ND	1								
CARBON TETRACHLORIDE	ND	1								
1,1-DICHLOROPROPENE	ND	1								
1,2-DICHLOROETHANE	ND	1								
BENZENE	ND	1								
TRICHLOROETHENE	ND	1								
1,2-DICHLOROPROPANE	ND	1								
DIBROMOMETHANE	ND	1								
BROMODICHLOROMETHANE	ND	1								
CIS-1,3-DICHLOROPROPENE	ND	1								
4-METHYL-2-PENTANONE	ND	10								
TOLUENE	ND	1								
TRANS-1,3-DICHLOROPROPENE	ND	1								
1,1,2-TRICHLOROETHANE	ND	1								
2-HEXANONE	ND	10								
TETRACHLOROETHENE	ND	1								
1,3-DICHLOROPROPANE	ND	1								
DIBROMOCHLOROMETHANE	ND	1								
1,2-DIBROMOETHANE	ND	1								
1-CHLOROHEXANE	ND	1								
CHLOROBENZENE	ND	1								

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101111-2-1 Instrument ID: HPV1 Method: SW8260_25

MB		Sample ID: VL101111-2			Units: UG/L		Analysis Date: 11/11/2010 13:26			
Client ID:		Run ID: VL101111-2A					Prep Date: 11/11/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	ND	1								
ETHYLBENZENE	ND	1								
M+P-XYLENE	ND	1								
O-XYLENE	ND	1								
STYRENE	ND	1								
BROMOFORM	ND	1								
ISOPROPYLBENZENE	ND	1								
1,2,3-TRICHLOROPROPANE	ND	1								
1,1,2,2-TETRACHLOROETHANE	ND	1								
BROMOBENZENE	ND	1								
N-PROPYLBENZENE	ND	1								
2-CHLOROTOLUENE	ND	1								
1,3,5-TRIMETHYLBENZENE	ND	1								
4-CHLOROTOLUENE	ND	1								
TERT-BUTYLBENZENE	ND	1								
1,2,4-TRIMETHYLBENZENE	ND	1								
SEC-BUTYLBENZENE	ND	1								
1,3-DICHLOROBENZENE	ND	1								
P-ISOPROPYLTOLUENE	ND	1								
1,4-DICHLOROBENZENE	ND	1								
N-BUTYLBENZENE	ND	1								
1,2-DICHLOROBENZENE	ND	1								
1,2-DIBROMO-3-CHLOROPROPAN	ND	2								
1,2,4-TRICHLOROBENZENE	ND	1								
HEXACHLOROBUTADIENE	ND	1								
NAPHTHALENE	ND	1								
1,2,3-TRICHLOROBENZENE	ND	1								
Surr: DIBROMOFLUOROMETHA	24.6		25		99	84-118				
Surr: TOLUENE-D8	23.7		25		95	85-115				
Surr: 4-BROMOFLUOROBENZEN	23.4		25		94	85-115				

The following samples were analyzed in this batch:

1011137-3

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

LCS		Sample ID: VL101118-3		Units: UG/KG		Analysis Date: 11/18/2010 19:59				
Client ID:		Run ID: VL101118-3A		Prep Date: 11/18/2010		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	40.9	5	40		102	34-134			30	
CHLOROMETHANE	37	5	40		93	51-129			30	
VINYL CHLORIDE	40.2	5	40		101	58-126			30	
BROMOMETHANE	39.4	5	40		98	31-159			30	
CHLOROETHANE	40.8	5	40		102	39-157			30	
TRICHLOROFLUOROMETHANE	43.6	5	40		109	25-186			30	
1,1-DICHLOROETHENE	44.3	5	40		111	65-136			30	
1,1,2-TRICHLORO-1,2,2-TRIFLUO	42.8	5	40		107	50-150			30	
ACETONE	207	20	160		129	19-158			30	
IODOMETHANE	41.9	5	40		105	50-150			30	
CARBON DISULFIDE	42.4	5	40		106	47-159			30	
METHYLENE CHLORIDE	41.9	5	40		105	54-141			30	
TRANS-1,2-DICHLOROETHENE	41.6	5	40		104	66-134			30	
METHYL TERTIARY BUTYL ETHE	88.6	5	80		111	50-125			30	
1,1-DICHLOROETHANE	45.1	5	40		113	73-125			30	
VINYL ACETATE	48.2	20	40		121	50-150			30	
CIS-1,2-DICHLOROETHENE	43.5	5	40		109	67-125			30	
2-BUTANONE	250	20	160		156	29-159			30	
BROMOCHLOROMETHANE	43.3	5	40		108	71-127			30	
CHLOROFORM	41.9	5	40		105	72-124			30	
1,1,1-TRICHLOROETHANE	42	5	40		105	68-133			30	
2,2-DICHLOROPROPANE	39.6	5	40		99	67-134			30	
CARBON TETRACHLORIDE	41	5	40		102	67-133			30	
1,1-DICHLOROPROPENE	41.3	5	40		103	70-135			30	
1,2-DICHLOROETHANE	43.1	5	40		108	72-137			30	
BENZENE	40.8	5	40		102	73-126			30	
TRICHLOROETHENE	39.8	5	40		99	77-124			30	
1,2-DICHLOROPROPANE	39.9	5	40		100	71-119			30	
DIBROMOMETHANE	42.8	5	40		107	73-128			30	
BROMODICHLOROMETHANE	40.6	5	40		101	72-128			30	
CIS-1,3-DICHLOROPROPENE	40.5	5	40		101	72-126			30	
4-METHYL-2-PENTANONE	224	20	160		140	47-147			30	
TOLUENE	40.3	5	40		101	71-127			30	
TRANS-1,3-DICHLOROPROPENE	42.7	5	40		107	65-127			30	
1,1,2-TRICHLOROETHANE	43.5	5	40		109	62-127			30	
2-HEXANONE	245	20	160		153	47-146			30	*
TETRACHLOROETHENE	40.3	5	40		101	67-139			30	
1,3-DICHLOROPROPANE	42.2	5	40		105	76-123			30	
DIBROMOCHLOROMETHANE	41.4	5	40		104	66-130			30	
1,2-DIBROMOETHANE	43	5	40		108	70-124			30	
1-CHLOROHEXANE	41.5	5	40		104	75-125			30	
CHLOROBENZENE	39.6	5	40		99	75-123			30	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

LCS		Sample ID: VL101118-3			Units: UG/KG		Analysis Date: 11/18/2010 19:59			
Client ID:		Run ID: VL101118-3A				Prep Date: 11/18/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	40.4	5	40		101	74-125			30	
ETHYLBENZENE	40	5	40		100	74-127			30	
M+P-XYLENE	80.5	5	80		101	79-126			30	
O-XYLENE	40.5	5	40		101	77-125			30	
STYRENE	39.8	5	40		100	74-128			30	
BROMOFORM	42	5	40		105	56-137			30	
ISOPROPYLBENZENE	40.5	5	40		101	77-129			30	
1,2,3-TRICHLOROPROPANE	43.7	5	40		109	63-130			30	
1,1,2,2-TETRACHLOROETHANE	43	5	40		107	54-131			30	
BROMOBENZENE	39.9	5	40		100	66-121			30	
N-PROPYLBENZENE	41	5	40		102	63-135			30	
2-CHLOROTOLUENE	40.1	5	40		100	69-128			30	
1,3,5-TRIMETHYLBENZENE	39.7	5	40		99	65-133			30	
4-CHLOROTOLUENE	39.8	5	40		100	73-126			30	
TERT-BUTYLBENZENE	41.7	5	40		104	65-132			30	
1,2,4-TRIMETHYLBENZENE	40.3	5	40		101	65-135			30	
SEC-BUTYLBENZENE	41.2	5	40		103	63-132			30	
1,3-DICHLOROBENZENE	39.2	5	40		98	72-124			30	
P-ISOPROPYLTOLUENE	39.7	5	40		99	75-133			30	
1,4-DICHLOROBENZENE	38.3	5	40		96	72-125			30	
N-BUTYLBENZENE	40.7	5	40		102	65-138			30	
1,2-DICHLOROBENZENE	39.8	5	40		100	74-119			30	
1,2-DIBROMO-3-CHLOROPROPAN	42.3	10	40		106	40-135			30	
1,2,4-TRICHLOROBENZENE	39.2	5	40		98	65-131			30	
HEXACHLOROBUTADIENE	40.1	5	40		100	53-142			30	
NAPHTHALENE	40.9	5	40		102	40-127			30	
1,2,3-TRICHLOROBENZENE	39.3	5	40		98	62-133			30	
Surr: DIBROMOFLUOROMETHA	51.6		50		103	61-134				
Surr: TOLUENE-D8	51.6		50		103	57-135				
Surr: 4-BROMOFLUOROBENZEN	49.2		50		98	52-151				

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

LCSD		Sample ID: VL101118-3		Units: UG/KG		Analysis Date: 11/18/2010 20:22				
Client ID:		Run ID: VL101118-3A		Prep Date: 11/18/2010		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	37.1	5	40		93	34-134	40.9	10	30	
CHLOROMETHANE	34.3	5	40		86	51-129	37	8	30	
VINYL CHLORIDE	35.9	5	40		90	58-126	40.2	11	30	
BROMOMETHANE	36.3	5	40		91	31-159	39.4	8	30	
CHLOROETHANE	37	5	40		92	39-157	40.8	10	30	
TRICHLOROFLUOROMETHANE	40.8	5	40		102	25-186	43.6	7	30	
1,1-DICHLOROETHENE	40.8	5	40		102	65-136	44.3	8	30	
1,1,2-TRICHLORO-1,2,2-TRIFLUO	39.2	5	40		98	50-150	42.8	9	30	
ACETONE	194	20	160		121	19-158	207	7	30	
IODOMETHANE	38.4	5	40		96	50-150	41.9	9	30	
CARBON DISULFIDE	38.8	5	40		97	47-159	42.4	9	30	
METHYLENE CHLORIDE	37.4	5	40		94	54-141	41.9	11	30	
TRANS-1,2-DICHLOROETHENE	39.4	5	40		99	66-134	41.6	5	30	
METHYL TERTIARY BUTYL ETHE	81.1	5	80		101	50-125	88.6	9	30	
1,1-DICHLOROETHANE	40.7	5	40		102	73-125	45.1	10	30	
VINYL ACETATE	45.3	20	40		113	50-150	48.2	6	30	
CIS-1,2-DICHLOROETHENE	39.3	5	40		98	67-125	43.5	10	30	
2-BUTANONE	220	20	160		138	29-159	250	13	30	
BROMOCHLOROMETHANE	40.3	5	40		101	71-127	43.3	7	30	
CHLOROFORM	38.5	5	40		96	72-124	41.9	8	30	
1,1,1-TRICHLOROETHANE	37.8	5	40		95	68-133	42	11	30	
2,2-DICHLOROPROPANE	36.4	5	40		91	67-134	39.6	8	30	
CARBON TETRACHLORIDE	38.6	5	40		97	67-133	41	6	30	
1,1-DICHLOROPROPENE	38.9	5	40		97	70-135	41.3	6	30	
1,2-DICHLOROETHANE	39.4	5	40		99	72-137	43.1	9	30	
BENZENE	38.2	5	40		95	73-126	40.8	7	30	
TRICHLOROETHENE	37.2	5	40		93	77-124	39.8	7	30	
1,2-DICHLOROPROPANE	36.7	5	40		92	71-119	39.9	8	30	
DIBROMOMETHANE	39	5	40		98	73-128	42.8	9	30	
BROMODICHLOROMETHANE	37.4	5	40		94	72-128	40.6	8	30	
CIS-1,3-DICHLOROPROPENE	36.8	5	40		92	72-126	40.5	10	30	
4-METHYL-2-PENTANONE	200	20	160		125	47-147	224	11	30	
TOLUENE	37.9	5	40		95	71-127	40.3	6	30	
TRANS-1,3-DICHLOROPROPENE	38.7	5	40		97	65-127	42.7	10	30	
1,1,2-TRICHLOROETHANE	40.2	5	40		100	62-127	43.5	8	30	
2-HEXANONE	224	20	160		140	47-146	245	9	30	
TETRACHLOROETHENE	37.8	5	40		94	67-139	40.3	7	30	
1,3-DICHLOROPROPANE	39.7	5	40		99	76-123	42.2	6	30	
DIBROMOCHLOROMETHANE	38.8	5	40		97	66-130	41.4	6	30	
1,2-DIBROMOETHANE	40.7	5	40		102	70-124	43	5	30	
1-CHLOROHEXANE	39.2	5	40		98	75-125	41.5	6	30	
CHLOROBENZENE	37.1	5	40		93	75-123	39.6	6	30	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

LCSD		Sample ID: VL101118-3			Units: UG/KG		Analysis Date: 11/18/2010 20:22			
Client ID:		Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	37.6	5	40		94	74-125	40.4	7	30	
ETHYLBENZENE	37.6	5	40		94	74-127	40	6	30	
M+P-XYLENE	75.3	5	80		94	79-126	80.5	7	30	
O-XYLENE	37.1	5	40		93	77-125	40.5	9	30	
STYRENE	37.5	5	40		94	74-128	39.8	6	30	
BROMOFORM	39.2	5	40		98	56-137	42	7	30	
ISOPROPYLBENZENE	37.2	5	40		93	77-129	40.5	9	30	
1,2,3-TRICHLOROPROPANE	40.4	5	40		101	63-130	43.7	8	30	
1,1,2,2-TETRACHLOROETHANE	40.6	5	40		102	54-131	43	6	30	
BROMOBENZENE	38.4	5	40		96	66-121	39.9	4	30	
N-PROPYLBENZENE	39.5	5	40		99	63-135	41	4	30	
2-CHLOROTOLUENE	37.8	5	40		95	69-128	40.1	6	30	
1,3,5-TRIMETHYLBENZENE	38.2	5	40		96	65-133	39.7	4	30	
4-CHLOROTOLUENE	37.8	5	40		95	73-126	39.8	5	30	
TERT-BUTYLBENZENE	38.7	5	40		97	65-132	41.7	8	30	
1,2,4-TRIMETHYLBENZENE	37.3	5	40		93	65-135	40.3	8	30	
SEC-BUTYLBENZENE	39.4	5	40		98	63-132	41.2	5	30	
1,3-DICHLOROBENZENE	37.5	5	40		94	72-124	39.2	4	30	
P-ISOPROPYLTOLUENE	38.7	5	40		97	75-133	39.7	2	30	
1,4-DICHLOROBENZENE	36.7	5	40		92	72-125	38.3	4	30	
N-BUTYLBENZENE	39.2	5	40		98	65-138	40.7	4	30	
1,2-DICHLOROBENZENE	38.7	5	40		97	74-119	39.8	3	30	
1,2-DIBROMO-3-CHLOROPROPAN	41.3	10	40		103	40-135	42.3	2	30	
1,2,4-TRICHLOROBENZENE	36.4	5	40		91	65-131	39.2	7	30	
HEXACHLOROBUTADIENE	37.9	5	40		95	53-142	40.1	6	30	
NAPHTHALENE	38.7	5	40		97	40-127	40.9	5	30	
1,2,3-TRICHLOROBENZENE	37.4	5	40		93	62-133	39.3	5	30	
Surr: DIBROMOFLUOROMETHA	51.1		50		102	61-134		1		
Surr: TOLUENE-D8	51.2		50		102	57-135		1		
Surr: 4-BROMOFLUOROBENZEN	52.1		50		104	52-151		6		

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MB		Sample ID: VL101118-3			Units: UG/KG		Analysis Date: 11/18/2010 21:10			
Client ID:		Run ID: VL101118-3A					Prep Date: 11/18/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	5								
CHLOROMETHANE	ND	5								
VINYL CHLORIDE	ND	5								
BROMOMETHANE	ND	5								
CHLOROETHANE	ND	5								
TRICHLOROFLUOROMETHANE	ND	5								
1,1-DICHLOROETHENE	ND	5								
1,1,2-TRICHLORO-1,2,2-TRIFLUO	ND	5								
ACETONE	ND	20								
IODOMETHANE	ND	5								
CARBON DISULFIDE	ND	5								
METHYLENE CHLORIDE	2.3	5								J
TRANS-1,2-DICHLOROETHENE	ND	5								
METHYL TERTIARY BUTYL ETHE	ND	5								
1,1-DICHLOROETHANE	ND	5								
VINYL ACETATE	ND	20								
CIS-1,2-DICHLOROETHENE	ND	5								
2-BUTANONE	ND	20								
BROMOCHLOROMETHANE	ND	5								
CHLOROFORM	ND	5								
1,1,1-TRICHLOROETHANE	ND	5								
2,2-DICHLOROPROPANE	ND	5								
CARBON TETRACHLORIDE	ND	5								
1,1-DICHLOROPROPENE	ND	5								
1,2-DICHLOROETHANE	ND	5								
BENZENE	ND	5								
TRICHLOROETHENE	ND	5								
1,2-DICHLOROPROPANE	ND	5								
DIBROMOMETHANE	ND	5								
BROMODICHLOROMETHANE	ND	5								
CIS-1,3-DICHLOROPROPENE	ND	5								
4-METHYL-2-PENTANONE	ND	20								
TOLUENE	ND	5								
TRANS-1,3-DICHLOROPROPENE	ND	5								
1,1,2-TRICHLOROETHANE	ND	5								
2-HEXANONE	ND	20								
TETRACHLOROETHENE	ND	5								
1,3-DICHLOROPROPANE	ND	5								
DIBROMOCHLOROMETHANE	ND	5								
1,2-DIBROMOETHANE	ND	5								
1-CHLOROHEXANE	ND	5								
CHLOROBENZENE	ND	5								

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MB			Sample ID: VL101118-3			Units: UG/KG			Analysis Date: 11/18/2010 21:10		
Client ID:			Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual	
1,1,1,2-TETRACHLOROETHANE	ND	5									
ETHYLBENZENE	ND	5									
M+P-XYLENE	ND	5									
O-XYLENE	ND	5									
STYRENE	ND	5									
BROMOFORM	ND	5									
ISOPROPYLBENZENE	ND	5									
1,2,3-TRICHLOROPROPANE	ND	5									
1,1,2,2-TETRACHLOROETHANE	ND	5									
BROMOBENZENE	ND	5									
N-PROPYLBENZENE	ND	5									
2-CHLOROTOLUENE	ND	5									
1,3,5-TRIMETHYLBENZENE	ND	5									
4-CHLOROTOLUENE	ND	5									
TERT-BUTYLBENZENE	ND	5									
1,2,4-TRIMETHYLBENZENE	ND	5									
SEC-BUTYLBENZENE	ND	5									
1,3-DICHLOROBENZENE	ND	5									
P-ISOPROPYLTOLUENE	ND	5									
1,4-DICHLOROBENZENE	ND	5									
N-BUTYLBENZENE	ND	5									
1,2-DICHLOROBENZENE	ND	5									
1,2-DIBROMO-3-CHLOROPROPAN	ND	10									
1,2,4-TRICHLOROBENZENE	ND	5									
HEXACHLOROBUTADIENE	ND	5									
NAPHTHALENE	ND	5									
1,2,3-TRICHLOROBENZENE	ND	5									
Surr: DIBROMOFLUOROMETHA	50.8		50		102	61-134					
Surr: TOLUENE-D8	50.1		50		100	57-135					
Surr: 4-BROMOFLUOROBENZEN	50.1		50		100	52-151					

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MS	Sample ID: 1011137-1				Units: UG/KG		Analysis Date: 11/18/2010 23:31			
Client ID: BBC-EP-PL-COGCC1			Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	64.5	6.29	50.3	6.5	128	34-134			30	
CHLOROMETHANE	61.2	6.29	50.3	6.5	122	51-129			30	
VINYL CHLORIDE	71.7	6.29	50.3	6.5	142	58-126			30	*
BROMOMETHANE	62.4	6.29	50.3	6.5	124	31-159			30	
CHLOROETHANE	71.9	6.29	50.3	6.5	143	39-157			30	
TRICHLOROFLUOROMETHANE	64	6.29	50.3	6.5	127	25-186			30	
1,1-DICHLOROETHENE	67.2	6.29	50.3	6.5	134	65-136			30	
1,1,2-TRICHLORO-1,2,2-TRIFLUO	55.8	6.29	50.3	6.5	111	50-150			30	
ACETONE	402	25.2	201	41	179	19-158			30	*
IODOMETHANE	59.4	6.29	50.3	6.5	118	50-150			30	
CARBON DISULFIDE	58.6	6.29	50.3	6.5	116	47-159			30	
METHYLENE CHLORIDE	74.6	6.29	50.3	6.5	148	54-141			30	*
TRANS-1,2-DICHLOROETHENE	64.1	6.29	50.3	6.5	127	66-134			30	
METHYL TERTIARY BUTYL ETHE	158	6.29	101	6.5	157	50-125			30	*
1,1-DICHLOROETHANE	71.4	6.29	50.3	6.5	142	73-125			30	*
VINYL ACETATE	75.6	25.2	50.3	26	150	50-150			30	
CIS-1,2-DICHLOROETHENE	68.5	6.29	50.3	6.5	136	67-125			30	*
2-BUTANONE	416	25.2	201	26	207	29-159			30	*
BROMOCHLOROMETHANE	92.5	6.29	50.3	6.5	184	71-127			30	*
CHLOROFORM	70.4	6.29	50.3	6.5	140	72-124			30	*
1,1,1-TRICHLOROETHANE	58.5	6.29	50.3	6.5	116	68-133			30	
2,2-DICHLOROPROPANE	60.3	6.29	50.3	6.5	120	67-134			30	
CARBON TETRACHLORIDE	50.8	6.29	50.3	6.5	101	67-133			30	
1,1-DICHLOROPROPENE	54.6	6.29	50.3	6.5	108	70-135			30	
1,2-DICHLOROETHANE	76.3	6.29	50.3	6.5	151	72-137			30	*
BENZENE	55.6	6.29	50.3	6.5	110	73-126			30	
TRICHLOROETHENE	61.1	6.29	50.3	6.5	121	77-124			30	
1,2-DICHLOROPROPANE	62.8	6.29	50.3	6.5	125	71-119			30	*
DIBROMOMETHANE	97	6.29	50.3	6.5	193	73-128			30	*
BROMODICHLOROMETHANE	49.5	6.29	50.3	6.5	98	72-128			30	
CIS-1,3-DICHLOROPROPENE	56.4	6.29	50.3	6.5	112	72-126			30	
4-METHYL-2-PENTANONE	513	25.2	201	26	255	47-147			30	*
TOLUENE	71.4	6.29	50.3	4.1	134	71-127			30	*
TRANS-1,3-DICHLOROPROPENE	96.5	6.29	50.3	6.5	192	65-127			30	*
1,1,2-TRICHLOROETHANE	112	6.29	50.3	6.5	222	62-127			30	*
2-HEXANONE	583	25.2	201	26	289	47-146			30	*
TETRACHLOROETHENE	62.4	6.29	50.3	6.5	124	67-139			30	
1,3-DICHLOROPROPANE	105	6.29	50.3	6.5	209	76-123			30	*
DIBROMOCHLOROMETHANE	56	6.29	50.3	6.5	111	66-130			30	
1,2-DIBROMOETHANE	99.1	6.29	50.3	6.5	197	70-124			30	*
1-CHLOROHEXANE	46.1	6.29	50.3	6.5	92	75-125			30	
CHLOROBENZENE	61.6	6.29	50.3	6.5	122	75-123			30	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MS	Sample ID: 1011137-1			Units: UG/KG			Analysis Date: 11/18/2010 23:31			
Client ID: BBC-EP-PL-COGCC1			Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	65.2	6.29	50.3	6.5	130	74-125			30	*
ETHYLBENZENE	50.8	6.29	50.3	6.5	101	74-127			30	
M+P-XYLENE	77.6	6.29	101	4.3	73	79-126			30	*
O-XYLENE	47.7	6.29	50.3	7.9	79	77-125			30	
STYRENE	42.1	6.29	50.3	6.5	84	74-128			30	
BROMOFORM	42.4	6.29	50.3	6.5	84	56-137			30	
ISOPROPYLBENZENE	36.4	6.29	50.3	6.5	72	77-129			30	*
1,2,3-TRICHLOROPROPANE	316	6.29	50.3	6.5	628	63-130			30	*
1,1,2,2-TETRACHLOROETHANE	68.5	6.29	50.3	6.5	136	54-131			30	*
BROMOBENZENE	45.8	6.29	50.3	6.5	91	66-121			30	
N-PROPYLBENZENE	36.7	6.29	50.3	6.5	73	63-135			30	
2-CHLOROTOLUENE	44	6.29	50.3	6.5	87	69-128			30	
1,3,5-TRIMETHYLBENZENE	440	6.29	50.3	480	-72	65-133			30	*
4-CHLOROTOLUENE	40.2	6.29	50.3	6.5	80	73-126			30	
TERT-BUTYLBENZENE	36.8	6.29	50.3	6.5	60	65-132			30	*
1,2,4-TRIMETHYLBENZENE	21.2	6.29	50.3	6.5	42	65-135			30	*
SEC-BUTYLBENZENE	28.4	6.29	50.3	8.9	39	63-132			30	*
1,3-DICHLOROBENZENE	26.4	6.29	50.3	6.5	52	72-124			30	*
P-ISOPROPYLTOLUENE	58.5	6.29	50.3	42	32	75-133			30	*
1,4-DICHLOROBENZENE	27.4	6.29	50.3	6.5	54	72-125			30	*
N-BUTYLBENZENE	16	6.29	50.3	6.5	32	65-138			30	*
1,2-DICHLOROBENZENE	24.8	6.29	50.3	6.5	49	74-119			30	*
1,2-DIBROMO-3-CHLOROPROPAN	64.1	12.6	50.3	13	127	40-135			30	
1,2,4-TRICHLOROBENZENE	8.77	6.29	50.3	6.5	17	65-131			30	*
HEXACHLOROBUTADIENE	5.75	6.29	50.3	6.5	11	53-142			30	J*
NAPHTHALENE	21.9	6.29	50.3	6.8	30	40-127			30	*
1,2,3-TRICHLOROBENZENE	8.87	6.29	50.3	6.5	18	62-133			30	*
Surr: DIBROMOFLUOROMETHA	76.6		62.9		122	61-134				
Surr: TOLUENE-D8	79.4		62.9		126	57-135				
Surr: 4-BROMOFLUOROBENZEN	51		62.9		81	52-151				

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MSD		Sample ID: 1011137-1				Units: UG/KG		Analysis Date: 11/18/2010 23:54		
Client ID: BBC-EP-PL-COGCC1			Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	45.2	6.19	49.5	6.5	91	34-134	64.5	35	30	+
CHLOROMETHANE	44.9	6.19	49.5	6.5	91	51-129	61.2	31	30	+
VINYL CHLORIDE	49.9	6.19	49.5	6.5	101	58-126	71.7	36	30	+
BROMOMETHANE	44.6	6.19	49.5	6.5	90	31-159	62.4	33	30	+
CHLOROETHANE	49.8	6.19	49.5	6.5	101	39-157	71.9	36	30	+
TRICHLOROFLUOROMETHANE	46.3	6.19	49.5	6.5	94	25-186	64	32	30	+
1,1-DICHLOROETHENE	48.3	6.19	49.5	6.5	98	65-136	67.2	33	30	+
1,1,2-TRICHLORO-1,2,2-TRIFLUO	40.3	6.19	49.5	6.5	81	50-150	55.8	32	30	+
ACETONE	276	24.7	198	41	118	19-158	402	37	30	+
IODOMETHANE	42.7	6.19	49.5	6.5	86	50-150	59.4	33	30	+
CARBON DISULFIDE	41.6	6.19	49.5	6.5	84	47-159	58.6	34	30	+
METHYLENE CHLORIDE	52.1	6.19	49.5	6.5	105	54-141	74.6	36	30	+
TRANS-1,2-DICHLOROETHENE	47.2	6.19	49.5	6.5	95	66-134	64.1	30	30	
METHYL TERTIARY BUTYL ETHE	113	6.19	99	6.5	114	50-125	158	34	30	+
1,1-DICHLOROETHANE	52.7	6.19	49.5	6.5	107	73-125	71.4	30	30	
VINYL ACETATE	55.3	24.7	49.5	26	112	50-150	75.6	31	30	+
CIS-1,2-DICHLOROETHENE	51.8	6.19	49.5	6.5	105	67-125	68.5	28	30	
2-BUTANONE	296	24.7	198	26	149	29-159	416	34	30	+
BROMOCHLOROMETHANE	67.3	6.19	49.5	6.5	136	71-127	92.5	31	30	*+
CHLOROFORM	53.3	6.19	49.5	6.5	108	72-124	70.4	28	30	
1,1,1-TRICHLOROETHANE	44.5	6.19	49.5	6.5	90	68-133	58.5	27	30	
2,2-DICHLOROPROPANE	45.1	6.19	49.5	6.5	91	67-134	60.3	29	30	
CARBON TETRACHLORIDE	38.4	6.19	49.5	6.5	78	67-133	50.8	28	30	
1,1-DICHLOROPROPENE	42.1	6.19	49.5	6.5	85	70-135	54.6	26	30	
1,2-DICHLOROETHANE	55.2	6.19	49.5	6.5	111	72-137	76.3	32	30	+
BENZENE	44.7	6.19	49.5	6.5	90	73-126	55.6	22	30	
TRICHLOROETHENE	47.5	6.19	49.5	6.5	96	77-124	61.1	25	30	
1,2-DICHLOROPROPANE	47.9	6.19	49.5	6.5	97	71-119	62.8	27	30	
DIBROMOMETHANE	70.1	6.19	49.5	6.5	142	73-128	97	32	30	*+
BROMODICHLOROMETHANE	36.9	6.19	49.5	6.5	75	72-128	49.5	29	30	
CIS-1,3-DICHLOROPROPENE	42.9	6.19	49.5	6.5	87	72-126	56.4	27	30	
4-METHYL-2-PENTANONE	349	24.7	198	26	176	47-147	513	38	30	*+
TOLUENE	60.2	6.19	49.5	4.1	113	71-127	71.4	17	30	
TRANS-1,3-DICHLOROPROPENE	70.9	6.19	49.5	6.5	143	65-127	96.5	31	30	*+
1,1,2-TRICHLOROETHANE	82.6	6.19	49.5	6.5	167	62-127	112	30	30	*
2-HEXANONE	428	24.7	198	26	216	47-146	583	31	30	*+
TETRACHLOROETHENE	53.4	6.19	49.5	6.5	108	67-139	62.4	16	30	
1,3-DICHLOROPROPANE	78.1	6.19	49.5	6.5	158	76-123	105	30	30	*
DIBROMOCHLOROMETHANE	45.9	6.19	49.5	6.5	93	66-130	56	20	30	
1,2-DIBROMOETHANE	76.1	6.19	49.5	6.5	154	70-124	99.1	26	30	*
1-CHLOROHEXANE	44.1	6.19	49.5	6.5	89	75-125	46.1	4	30	
CHLOROBENZENE	51.6	6.19	49.5	6.5	104	75-123	61.6	18	30	

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-1 Instrument ID: HPV1 Method: SW8260

MSD		Sample ID: 1011137-1			Units: UG/KG		Analysis Date: 11/18/2010 23:54			
Client ID: BBC-EP-PL-COGCC1			Run ID: VL101118-3A			Prep Date: 11/18/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	55.1	6.19	49.5	6.5	111	74-125	65.2	17	30	
ETHYLBENZENE	44.9	6.19	49.5	6.5	91	74-127	50.8	12	30	
M+P-XYLENE	76.1	6.19	99	4.3	73	79-126	77.6	2	30	*
O-XYLENE	41.7	6.19	49.5	7.9	68	77-125	47.7	13	30	*
STYRENE	39.7	6.19	49.5	6.5	80	74-128	42.1	6	30	
BROMOFORM	35.9	6.19	49.5	6.5	72	56-137	42.4	17	30	
ISOPROPYLBENZENE	33.4	6.19	49.5	6.5	67	77-129	36.4	9	30	*
1,2,3-TRICHLOROPROPANE	73.9	6.19	49.5	6.5	149	63-130	316	124	30	*+
1,1,2,2-TETRACHLOROETHANE	145	6.19	49.5	6.5	293	54-131	68.5	72	30	*+
BROMOBENZENE	59.1	6.19	49.5	6.5	119	66-121	45.8	25	30	
N-PROPYLBENZENE	46.3	6.19	49.5	6.5	94	63-135	36.7	23	30	
2-CHLOROTOLUENE	51	6.19	49.5	6.5	103	69-128	44	15	30	
1,3,5-TRIMETHYLBENZENE	313	6.19	49.5	480	-331	65-133	440	34	30	*+
4-CHLOROTOLUENE	48	6.19	49.5	6.5	97	73-126	40.2	18	30	
TERT-BUTYLBENZENE	41.7	6.19	49.5	6.5	71	65-132	36.8	12	30	
1,2,4-TRIMETHYLBENZENE	29.5	6.19	49.5	6.5	60	65-135	21.2	33	30	*+
SEC-BUTYLBENZENE	34	6.19	49.5	8.9	51	63-132	28.4	18	30	*
1,3-DICHLOROBENZENE	34.2	6.19	49.5	6.5	69	72-124	26.4	26	30	*
P-ISOPROPYLTOLUENE	53.2	6.19	49.5	42	22	75-133	58.5	10	30	*
1,4-DICHLOROBENZENE	33.6	6.19	49.5	6.5	68	72-125	27.4	20	30	*
N-BUTYLBENZENE	19.1	6.19	49.5	6.5	39	65-138	16	18	30	*
1,2-DICHLOROBENZENE	31.8	6.19	49.5	6.5	64	74-119	24.8	25	30	*
1,2-DIBROMO-3-CHLOROPROPAN	67	12.4	49.5	13	135	40-135	64.1	4	30	
1,2,4-TRICHLOROBENZENE	10.6	6.19	49.5	6.5	21	65-131	8.77	19	30	*
HEXACHLOROBUTADIENE	7.73	6.19	49.5	6.5	16	53-142	5.75	29	30	*
NAPHTHALENE	22.9	6.19	49.5	6.8	32	40-127	21.9	4	30	*
1,2,3-TRICHLOROBENZENE	9.28	6.19	49.5	6.5	19	62-133	8.87	5	30	*
Surr: DIBROMOFLUOROMETHA	72		61.9		116	61-134		6		
Surr: TOLUENE-D8	78.7		61.9		127	57-135		1		
Surr: 4-BROMOFLUOROBENZEN	70.1		61.9		113	52-151		32		

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: VL101118-3-2 Instrument ID: HPV1 Method: SW8260

MB Sample ID: VL101118-3M Units: UG/KG Analysis Date: 11/18/2010 22:20
Client ID: Run ID: VL101118-3A Prep Date: 11/18/2010 DF: 50

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	250								
CHLOROMETHANE	ND	250								
VINYL CHLORIDE	ND	250								
BROMOMETHANE	ND	250								
CHLOROETHANE	ND	250								
TRICHLOROFLUOROMETHANE	ND	250								
1,1-DICHLOROETHENE	ND	250								
1,1,2-TRICHLORO-1,2,2-TRIFLUO	ND	250								
ACETONE	ND	1000								
IODOMETHANE	ND	250								
CARBON DISULFIDE	ND	250								
METHYLENE CHLORIDE	ND	250								
TRANS-1,2-DICHLOROETHENE	ND	250								
METHYL TERTIARY BUTYL ETHE	ND	250								
1,1-DICHLOROETHANE	ND	250								
VINYL ACETATE	ND	1000								
CIS-1,2-DICHLOROETHENE	ND	250								
2-BUTANONE	ND	1000								
BROMOCHLOROMETHANE	ND	250								
CHLOROFORM	ND	250								
1,1,1-TRICHLOROETHANE	ND	250								
2,2-DICHLOROPROPANE	ND	250								
CARBON TETRACHLORIDE	ND	250								
1,1-DICHLOROPROPENE	ND	250								
1,2-DICHLOROETHANE	ND	250								
BENZENE	ND	250								
TRICHLOROETHENE	ND	250								
1,2-DICHLOROPROPANE	ND	250								
DIBROMOMETHANE	ND	250								
BROMODICHLOROMETHANE	ND	250								
CIS-1,3-DICHLOROPROPENE	ND	250								
4-METHYL-2-PENTANONE	ND	1000								
TOLUENE	ND	250								
TRANS-1,3-DICHLOROPROPENE	ND	250								
1,1,2-TRICHLOROETHANE	ND	250								
2-HEXANONE	ND	1000								
TETRACHLOROETHENE	ND	250								
1,3-DICHLOROPROPANE	ND	250								
DIBROMOCHLOROMETHANE	ND	250								
1,2-DIBROMOETHANE	ND	250								
1-CHLOROHEXANE	ND	250								
CHLOROBENZENE	ND	250								

Client: COGCC
 Work Order: 1011137
 Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **VL101118-3-2** Instrument ID: **HPV1** Method: **SW8260**

MB		Sample ID: VL101118-3M			Units: UG/KG		Analysis Date: 11/18/2010 22:20			
Client ID:		Run ID: VL101118-3A			Prep Date: 11/18/2010		DF: 50			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
1,1,1,2-TETRACHLOROETHANE	ND	250								
ETHYLBENZENE	ND	250								
M+P-XYLENE	ND	250								
O-XYLENE	ND	250								
STYRENE	ND	250								
BROMOFORM	ND	250								
ISOPROPYLBENZENE	ND	250								
1,2,3-TRICHLOROPROPANE	ND	250								
1,1,2,2-TETRACHLOROETHANE	ND	250								
BROMOBENZENE	ND	250								
N-PROPYLBENZENE	ND	250								
2-CHLOROTOLUENE	ND	250								
1,3,5-TRIMETHYLBENZENE	ND	250								
4-CHLOROTOLUENE	ND	250								
TERT-BUTYLBENZENE	ND	250								
1,2,4-TRIMETHYLBENZENE	ND	250								
SEC-BUTYLBENZENE	ND	250								
1,3-DICHLOROBENZENE	ND	250								
P-ISOPROPYLTOLUENE	ND	250								
1,4-DICHLOROBENZENE	ND	250								
N-BUTYLBENZENE	ND	250								
1,2-DICHLOROBENZENE	ND	250								
1,2-DIBROMO-3-CHLOROPROPAN	ND	500								
1,2,4-TRICHLOROBENZENE	ND	250								
HEXACHLOROBUTADIENE	ND	250								
NAPHTHALENE	ND	250								
1,2,3-TRICHLOROBENZENE	ND	250								
Surr: DIBROMOFLUOROMETHA	2670		2500		107	61-134				
Surr: TOLUENE-D8	2380		2500		95	57-135				
Surr: 4-BROMOFLUOROBENZEN	2540		2500		102	52-151				

The following samples were analyzed in this batch:

1011137-1	1011137-2
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Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **WC101115-1-1** Instrument ID: **IC** Method: **EPA300.0**

LCS	Sample ID: WC101115-1				Units: MG/KG		Analysis Date: 11/15/2010 15:53			
Client ID:	Run ID: IC101115-1A				Prep Date: 11/15/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	50.4	1	50		101	85-115			30	
CHLORIDE	101	2	100		101	85-115			30	
NITRITE AS N	19.6	1	20		98	85-115			30	
BROMIDE	101	2	100		101	85-115			30	
NITRATE AS N	101	2	100		101	85-115			30	
SULFATE	505	10	500		101	85-115			30	

MB	Sample ID: WC101115-1				Units: MG/KG		Analysis Date: 11/15/2010 15:42			
Client ID:	Run ID: IC101115-1A				Prep Date: 11/15/2010			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	ND	1								
CHLORIDE	ND	2								
NITRITE AS N	ND	1								
BROMIDE	ND	2								
NITRATE AS N	ND	2								
SULFATE	ND	10								

MS	Sample ID: 1011137-1					Units: MG/KG		Analysis Date: 11/15/2010 16:48		
Client ID: BBC-EP-PL-COGCC1			Run ID: IC101115-1A			Prep Date: 11/15/2010			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	30.9	1.3	25.9	8.4	87	85-115			30	
NITRITE AS N	25.6	1.3	25.9	1.3	99	85-115			30	
BROMIDE	62.1	2.59	64.8	2.6	96	85-115			30	
NITRATE AS N	55.3	2.59	64.8	2.6	85	85-115			30	
SULFATE	247	13	259	17	89	85-115			30	

MSD	Sample ID: 1011137-1					Units: MG/KG		Analysis Date: 11/15/2010 16:59		
Client ID: BBC-EP-PL-COGCC1			Run ID: IC101115-1A				Prep Date: 11/15/2010		DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	32.6	1.3	25.9	8.4	93	85-115	30.9	5	30	
NITRITE AS N	26.7	1.3	25.9	1.3	103	85-115	25.6	4	30	
BROMIDE	65.3	2.59	64.8	2.6	101	85-115	62.1	5	30	
NITRATE AS N	59.3	2.59	64.8	2.6	91	85-115	55.3	7	30	
SULFATE	259	13	259	17	94	85-115	247	5	30	

The following samples were analyzed in this batch:

1011137-1 1011137-2

Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **PH101119-1-1** Instrument ID: **pH-1** Method: **EPA150.1**

DUP Sample ID: **1011137-1** Units: **pH** Analysis Date: **11/19/2010**
Client ID: **BBC-EP-PL-COGCC1** Run ID: **ph101119-1a** Prep Date: **11/19/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
PH	9.13	0.1					8.98		0.5	

The following samples were analyzed in this batch:

1011137-1	1011137-2
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Client: COGCC
Work Order: 1011137
Project: BBC Pipeline-Epperly

QC BATCH REPORT

Batch ID: **SC101119-2-1** Instrument ID: **pH-1** Method: **EPA120.1**

DUP Sample ID: **1011137-1** Units: **umhos/cm** Analysis Date: **11/19/2010**
Client ID: **BBC-EP-PL-COGCC1** Run ID: **sc101119-2a** Prep Date: **11/19/2010** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	442	1					535	19	10	

The following samples were analyzed in this batch:

1011137-1	1011137-2
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GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID: BBC-EP-PL-COGCC1

Lab ID: 1011137-1

Sample Matrix: SOIL

% Moisture: 22.8628

Date Collected: 07-Nov-10

Date Extracted: 17-Nov-10

Date Analyzed: 29-Nov-10

Prep Batch: EX101117-3

QCBatchID: EX101117-3-1

Run ID: SV101129-2

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 30.06 g

Final Volume: 10 ml

Clean DF: 1

File Name: P11547

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
	7.62	SATURATED HYDROCARBON1	5	120000	UG/KG	J
	7.78	SATURATED HYDROCARBON2	5	290000	UG/KG	J
	8.16	SATURATED HYDROCARBON3	5	170000	UG/KG	J
	8.50	DIMETHYL NAPHTHALENE1	5	130000	UG/KG	J
	8.57	SATURATED HYDROCARBON4	5	780000	UG/KG	J
	8.76	SATURATED HYDROCARBON5	5	1200000	UG/KG	J
	8.97	SATURATED HYDROCARBON6	5	220000	UG/KG	J
	9.03	SATURATED HYDROCARBON7	5	180000	UG/KG	J
	9.20	SATURATED HYDROCARBON8	5	1400000	UG/KG	J
	9.44	SATURATED HYDROCARBON9	5	280000	UG/KG	J
	9.63	SATURATED HYDROCARBON10	5	770000	UG/KG	J
	9.99	SATURATED HYDROCARBON11	5	480000	UG/KG	J
	10.35	SATURATED HYDROCARBON12	5	460000	UG/KG	J
	10.70	SATURATED HYDROCARBON13	5	510000	UG/KG	J
	11.02	SATURATED HYDROCARBON14	5	490000	UG/KG	J
	11.33	SATURATED HYDROCARBON15	5	120000	UG/KG	J
	13.43	SATURATED HYDROCARBON16	5	540000	UG/KG	J
	13.82	SATURATED HYDROCARBON17	5	190000	UG/KG	J
	14.26	SATURATED HYDROCARBON18	5	140000	UG/KG	J
	14.77	SATURATED HYDROCARBON19	5	420000	UG/KG	J

Data Package ID: SV1011137-1

GC/MS Semi-volatiles

Method SW8270

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID:

Lab ID: EX101117-3MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 17-Nov-10

Date Analyzed: 29-Nov-10

Prep Batch: EX101117-3

QCBatchID: EX101117-3-1

Run ID: SV101129-2

Cleanup: NONE

Basis: As Received

Sample Aliquot: 30 g

Final Volume: 1 ml

Clean DF: 1

File Name: P11545

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
7683-64-9	13.17	SQUALENE	1	310	UG/KG	J

Data Package ID: SV1011137-1

GC/MS Volatiles

Method SW8260

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID: BBC-EP-PL-COGCC1

Lab ID: 1011137-1

Sample Matrix: SOIL

% Moisture: 22.8628

Date Collected: 07-Nov-10

Date Extracted: 18-Nov-10

Date Analyzed: 18-Nov-10

Prep Batch: VL101118-3

QCBatchID: VL101118-3-2

Run ID: VL101118-3A

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 5.125 g

Final Volume: 5 ml

Clean DF: 1

File Name: C25802

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	50			U

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID: BBC-EP-PL-COGCC2

Lab ID: 1011137-2

Sample Matrix: SOIL

% Moisture: 14.8414

Date Collected: 07-Nov-10

Date Extracted: 18-Nov-10

Date Analyzed: 18-Nov-10

Prep Batch: VL101118-3

QCBatchID: VL101118-3-1

Run ID: VL101118-3A

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 5.03 g

Final Volume: 5 ml

Clean DF: 1

File Name: C25799

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID: BBC-EP-PL-COGCC-HAW

Lab ID: 1011137-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 07-Nov-10

Date Extracted: 11-Nov-10

Date Analyzed: 11-Nov-10

Prep Batch: VL101111-2

QCBatchID: VL101111-2-1

Run ID: VL101111-2A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Clean DF: 1

File Name: B69315

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U
75-18-3	6.09	DIMETHYL SULFIDE	1	7.5	UG/L	J
108-87-2	10.01	METHYL CYCLOHEXANE	1	4	UG/L	J

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID:	
Lab ID:	VL101111-2MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 11-Nov-10

Date Analyzed: 11-Nov-10

Prep Batch: VL101111-2

QCBatchID: VL101111-2-1

Run ID: VL101111-2A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 10 ml

Final Volume: 10 ml

Clean DF: 1

File Name: B69311

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID:

Lab ID: VL101118-3MB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 18-Nov-10

Date Analyzed: 18-Nov-10

Prep Batch: VL101118-3

QCBatchID: VL101118-3-1

Run ID: VL101118-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 5 g

Final Volume: 5 ml

Clean DF: 1

File Name: C25798

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID:	
Lab ID:	VL101118-3MMB

Sample Matrix: SOIL

% Moisture: N/A

Date Collected: N/A

Date Extracted: 18-Nov-10

Date Analyzed: 18-Nov-10

Prep Batch: VL101118-3

QCBatchID: VL101118-3-2

Run ID: VL101118-3A

Cleanup: NONE

Basis: As Received

Sample Aliquot: 5 g

Final Volume: 5 ml

Clean DF: 1

File Name: C25801

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	50			U

Data Package ID: VL1011137-1

GC/MS Volatiles

Method SW8260

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1011137

Client Name: COGCC

ClientProject ID: BBC Pipeline-Epperly

Field ID: BBC-EP-PL-COGCC1

Lab ID: 1011137-1RR1

Sample Matrix: SOIL

% Moisture: 22.8628

Date Collected: 07-Nov-10

Date Extracted: 18-Nov-10

Date Analyzed: 18-Nov-10

Prep Batch: VL101118-3

QCBatchID: VL101118-3-1

Run ID: VL101118-3A

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 5.01 g

Final Volume: 5 ml

Clean DF: 1

File Name: C25803

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: VL1011137-1