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Division of Water Quality
Wastewater Discharge Program

XTO ENERGY

COPY

08/31/2012

Rick Cool
NPDES Compliance Unit
US EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-133
Seattle, WA 98101

FEDEX #: 798867540442

Re: XTO Energy response to EPA email (8/28/2012 – East Forelands AKG315003) request for corrected DMR information and sampling records.

Rick,

Please find the attached documents that you requested in your email to XTO dated: 08/28/2012. Please do not hesitate to call should you have further questions or concerns. I can be reached at (907) 776-2510 or via cell at (907) 398-1233.

Attachments:

- PART 1 of 2 – DMR Corrections on ammonia sample data. (August 2007 to July 2012)
- PART 2 of 2 – Records request for quarterly metals and ammonia sample data. (April 2011 to March 2012)
- Appendix A – Complete lab sample reports for PART 2
- Appendix B – Email from EPA (Rick Cool) 08/28/2012

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

08/31/2012
Ryan Tunseth
XTO ALASKA - HSE MANAGER

08/31/12
Scott Griffith
XTO ALASKA - PRODUCTION SUPERINTENDENT

Date Submitted: 08/31/2012

XTO Energy Inc. • 52260 Kalifornsky Beach Road • Kenai, Alaska 99611 • (907) 776-8473 • Fax (907) 776-2542

cc:

Director, Office of Compliance and Enforcement
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, OCE-133
Seattle, Washington 98101

FEDEX: 7988 6752 6438

Alaska Dept. of Environmental Conservation
ATTN: Watershed Management Section
555 Cordova Street
Anchorage, Alaska 99501

FEDEX: 7988 6751 8407

Email cc:

Rick Cool – US EPA R10
Al Vann – USEPA R10
Scott Griffith – XTO
Nina Hutton – XTO

XTO ENERGY – ALASKA
NPDES PERMIT: AKG 31 5003

Response to EPA e-mail:
East Forelands AKG315003
(08/28/2012 – Richard Cool USEPA R10)

PART 1 of 2

DMR Corrections – Ammonia Sample Data
August 2007 to July 2012

DISCUSSION

XTO Energy has discovered a data entry error that caused incorrect values to be reported for ammonia sampling on the monthly Discharge Monitoring Reports (DMR) from the time period of February 2008 through July 2012. The specific problem is highlighted in FIGURE 1. The spreadsheet that XTO utilizes to complete the DMR's referenced a cell in the DMR for the data entry location of the ammonia sample. During completion of the February 2008 DMR, the sample value for ammonia (3.6) was entered into the DMR cell rather than the data entry cell. This caused the formula to be cleared and was not carried over to subsequent DMR's. The completion of the June 2008 DMR again had the ammonia sample result (5.1) placed in the DMR cell rather than the data entry cell. From that point forward, the ammonia sample values were entered into the data entry spreadsheet correctly, but the cell on the DMR was not referencing them because the formula had been replaced with a number (5.1).

XTO also reviewed the sample data reported between the time period of August 2007 through January 2008, no errors were found in the sample data or DMR values reported. No other errors were found when reviewing this issue. All of the other reference cells have been checked going back to the February 2008 DMR to ensure that other parameters did not have the same issue.

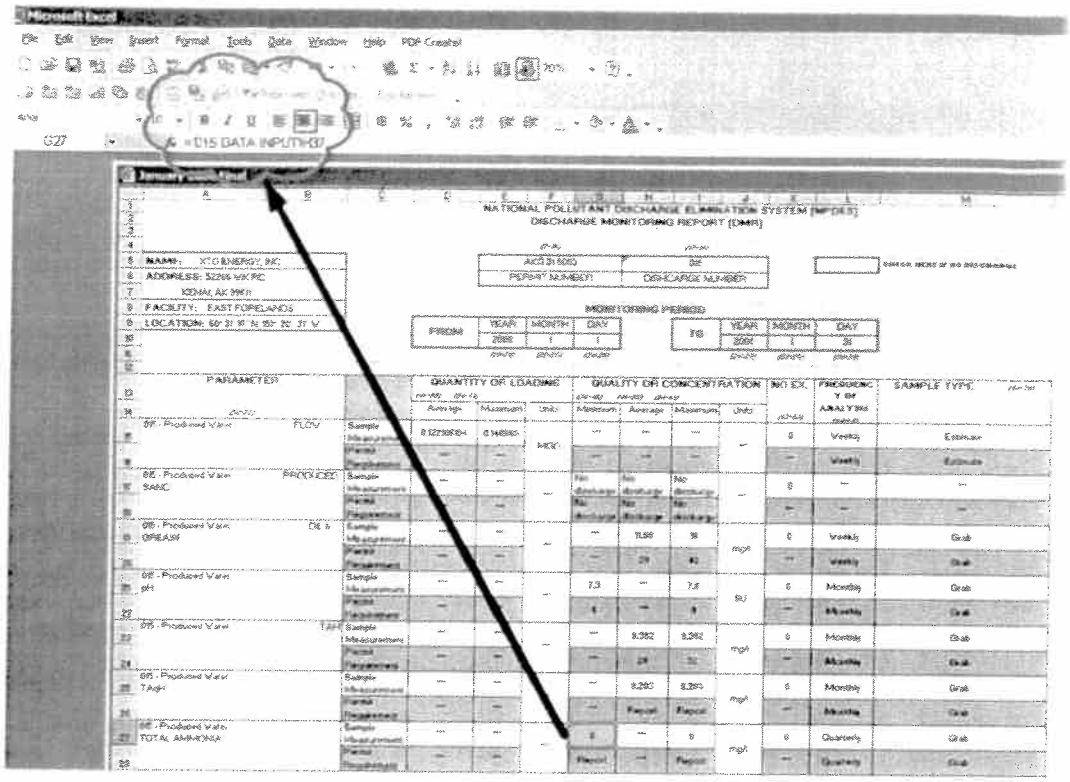
XTO has corrected the spreadsheet error and will correctly report the ammonia data on the August 2012 DMR. TABLE 1 includes all of the corrections needed on the XTO DMR's (AKG315003) from August 2007 through July 2012.

TABLE 1 – AKG315003 Corrected DMR values for ammonia sampling (08/2007 to 07/2012)

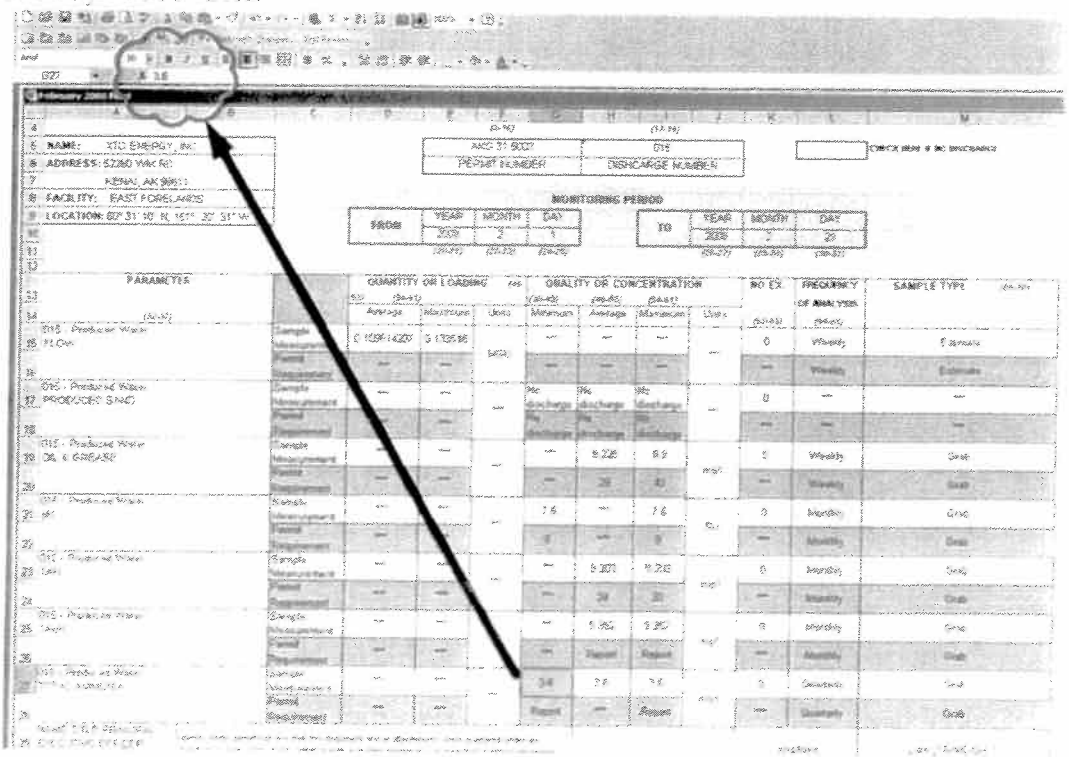
Month / Year	Ammonia Value Reported on DMR (mg/l)	Corrected Ammonia Value (mg/l)	Sample Date
August 2007	5.6 mg/l	5.6	08/14/07
September 2007	0	N/A	
October 2007	0	N/A	
November 2007	0	N/A	
December 2007	3.0 mg/l	3.0	12/04/07
January 2008	0	N/A	
February 2008	3.6 mg/l	3.6	02/26/08
March 2008	3.6 mg/l	N/A	
April 2008	3.6 mg/l	N/A	
May 2008	3.6 mg/l	N/A	
June 2008	5.1 mg/l	5.1	06/03/08
July 2008	5.1 mg/l	N/A	
August 2008	5.1 mg/l	N/A	
September 2008	5.1 mg/l	4.7	09/09/08
October 2008	5.1 mg/l	N/A	
November 2008	5.1 mg/l	2.9	11/04/08
December 2008	5.1 mg/l	N/A	
January 2009	5.1 mg/l	4.7	01/06/09
February 2009	5.1 mg/l	N/A	
March 2009	5.1 mg/l	N/A	
April 2009	5.1 mg/l	3.5	04/07/09
May 2009	5.1 mg/l	N/A	
June 2009	5.1 mg/l	N/A	
July 2009	5.1 mg/l	3.0	07/07/09
August 2009	5.1 mg/l	N/A	
September 2009	5.1 mg/l	N/A	
October 2009	5.1 mg/l	2.4	10/06/09
November 2009	5.1 mg/l	N/A	
December 2009	5.1 mg/l	N/A	
January 2010	5.1 mg/l	7.2	01.05.10
February 2010	5.1 mg/l	N/A	
March 2010	5.1 mg/l	N/A	
April 2010	5.1 mg/l	2.5	04/06/10
May 2010	5.1 mg/l	N/A	
June 2010	5.1 mg/l	N/A	
July 2010	5.1 mg/l	5.4	07/09/10
August 2010	5.1 mg/l	N/A	
September 2010	5.1 mg/l	N/A	
October 2010	5.1 mg/l	5.3	10/05/10
November 2010	5.1 mg/l	N/A	
December 2010	5.1 mg/l	N/A	
January 2011	5.1 mg/l	3.1	01/04/11
February 2011	5.1 mg/l	N/A	
March 2011	5.1 mg/l	N/A	
April 2011	5.1 mg/l	3.3	04/06/11
May 2011	5.1 mg/l	N/A	
June 2011	5.1 mg/l	N/A	
July 2011	5.1 mg/l	4.9	07/05/11
August 2011	5.1 mg/l	N/A	
September 2011	5.1 mg/l	N/A	
October 2011	5.1 mg/l	3.6	10/04/11
November 2011	5.1 mg/l	N/A	
December 2011	5.1 mg/l	N/A	
January 2012	5.1 mg/l	4.2	01/04/12
February 2012	5.1 mg/l	N/A	
March 2012	5.1 mg/l	N/A	
April 2012	5.1 mg/l	1.7	04/03/12
May 2012	5.1 mg/l	N/A	
June 2012	5.1 mg/l	N/A	
July 2012	5.1 mg/l	3.2	07/02/12

FIGURE 1 – Screenshot of data entry problem found on DMR's (Jan 08 & Feb 08)

January 2008 DMR



February 2008 DMR



XTO ENERGY – ALASKA
NPDES PERMIT: AKG 31 5003

Response to EPA e-mail:
East Forelands AKG315003
(08/28/2012 – Richard Cool USEPA R10)

PART 2 of 2

Records Request – Quarterly Metals & Ammonia Sample Data
April 2011 to March 2012

APRIL 2011 (Q2-11)

Sample Date	Time	Location	Analyses Date	Sampler
4/6/2011	7:10 am	#1WSV	04/13/2011	BM

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	**3.3**	mg/l	-	-	4500-NH3D	Grab	Quarterly
Copper	**<MRL**	ug/l	60 ug/l	90 ug/l	200.8 / 200.2	Grab	1/Month *
Mercury	**<MRL**	ug/l	0.5 ug/l	0.8 ug/l	245.1	Grab	1/Month *
Manganese	**1.33**	mg/l	7.9 mg/l	15.8 mg/l	200.8 / 200.2	Grab	1/Month *
Silver	**<MRL**	ug/l	46 ug/l	149 ug/l	200.8 / 200.2	Grab	1/Month *
Zinc	**0.0813**	mg/l	3.1 mg/l	6.1 mg/l	200.8 / 200.2	Grab	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

MAY 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

JUNE 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

JULY 2011 (Q3 -11)

Sample Date	Time	Location	Analyses Date	Sampler
7/5/2011	8:00 am	#1WSV	07/15/2011	BM

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	**4.9**	mg/l	-	-	4500-NH3D	Grab	Quarterly
Copper	**2.65**	ug/l	60 ug/l	90 ug/l	200.8 / 200.2	Grab	1/Month *
Mercury	**<MRL**	ug/l	0.5 ug/l	0.8 ug/l	245.1	Grab	1/Month *
Manganese	**1.78**	mg/l	7.9 mg/l	15.8 mg/l	200.8 / 200.2	Grab	1/Month *
Silver	**<MRL**	ug/l	46 ug/l	149 ug/l	200.8 / 200.2	Grab	1/Month *
Zinc	**0.0319**	mg/l	3.1 mg/l	6.1 mg/l	200.8 / 200.2	Grab	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

AUGUST 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

SEPTEMBER 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

OCTOBER 2011 (Q4-11)

Sample Date	Time	Location	Analyses Date	Sampler
10/4/2011	6:30 am	#1WSV	10/11/2011	RS

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	**3.6**	mg/l	-	-	4500-NH3D	Grab	Quarterly
Copper	**2.19**	ug/l	60 ug/l	90 ug/l	200.8 / 200.2	Grab	1/Month *
Mercury	**<MRL**	ug/l	0.5 ug/l	0.8 ug/l	245.1	Grab	1/Month *
Manganese	**1.37**	mg/l	7.9 mg/l	15.8 mg/l	200.8 / 200.2	Grab	1/Month *
Silver	**8.82**	ug/l	46 ug/l	149 ug/l	200.8 / 200.2	Grab	1/Month *
Zinc	**0.0382**	mg/l	3.1 mg/l	6.1 mg/l	200.8 / 200.2	Grab	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

NOVEMBER 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

DECEMBER 2011

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

JANUARY 2012 (Q1-12)

Sample Date	Time	Location	Analyses Date	Sampler
1/4/2012	6:45 am	#1WSV	1/16/2012	GW

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	**4.2**	mg/l	-	-	4500-NH3D	Grab	Quarterly
Copper	**3.57**	ug/l	60 ug/l	90 ug/l	200.8 / 200.2	Grab	1/Month *
Mercury	**<MRL**	ug/l	0.5 ug/l	0.8 ug/l	245.1	Grab	1/Month *
Manganese	**1.48**	mg/l	7.9 mg/l	15.8 mg/l	200.8 / 200.2	Grab	1/Month *
Silver	**9.18**	ug/l	46 ug/l	149 ug/l	200.8 / 200.2	Grab	1/Month *
Zinc	**0.0505**	mg/l	3.1 mg/l	6.1 mg/l	200.8 / 200.2	Grab	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

FEBRUARY 2012

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6 b)

MARCH 2012

Sample Date	Time	Location	Analyses Date	Sampler
N/A	N/A	N/A	N/A	N/A

Parameter	Value	Units	Effluent Limits		Method	Sample Type	Frequency
			Avg. Monthly	Max Daily			
Ammonia	N/A	mg/l	-	-	N/A	N/A	Quarterly
Copper	N/A	ug/l	60 ug/l	90 ug/l	N/A	N/A	1/Month *
Mercury	N/A	ug/l	0.5 ug/l	0.8 ug/l	N/A	N/A	1/Month *
Manganese	N/A	mg/l	7.9 mg/l	15.8 mg/l	N/A	N/A	1/Month *
Silver	N/A	ug/l	46 ug/l	149 ug/l	N/A	N/A	1/Month *
Zinc	N/A	mg/l	3.1 mg/l	6.1 mg/l	N/A	N/A	1/Month *

* Frequency is reduced to 1/Quarter (Permit section II.G.6.b)

QUARTERLY SAMPLE (APRIL 2011)

ANALYTICA GROUP

SP-Analytica, Inc.-Anchorage
4307 Arctic Blvd
Anchorage, AK 99503
Phone: 907-258-2155
Fax: 907-258-6634

XTO Energy, Inc.
Attn: Ryan Tunseth
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Report Date: 4/19/2011
Receipt Date: 4/6/2011
Sample Date: 4/6/2011
Sample Time: 7:10:00AM
Collected By: BM

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
245.1/245.1 (Aqueous) - Total Hg					*Test was conducted by: Analytica - Thornton*			
Mercury	<MRL	mg/L		0.00020	245.1	4/15/2011	4/15/2011	AT
200.8/200.2 (Aqueous) - T/TR WW digested (mg/L					*Test was conducted by: Analytica - Thornton*			
Arsenic	0.0431	mg/L		0.0015	200.2	4/12/2011	4/13/2011	RM
Cadmium	<MRL	mg/L		0.0020	200.2	4/12/2011	4/13/2011	RM
Copper	<MRL	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Lead	0.00624	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Manganese	1.33	mg/L		0.00050	200.2	4/12/2011	4/13/2011	RM
Silver	<MRL	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Zinc	0.0813	mg/L		0.0025	200.2	4/12/2011	4/13/2011	RM

Lab#: A1104069-01E

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
4500-NH3D/4500-NH3D (Aqueous) - Ammonia					*Test was conducted by: Analytica - Thornton*			
Ammonia as N	3.3	mg/L		0.50	4500-NH	4/14/2011	4/14/2011	AT

QUARTERLY SAMPLE (JULY 2011)

ANALYTICA GROUP

SP-Analytica, Inc.-Anchorage
4307 Arctic Blvd.
Anchorage, AK 99503
Phone: 907-258-2155
Fax 907-258-6634

XTO Energy, Inc.
Attn: Ryan Tunseth
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Report Date: 7/19/2011
Receipt Date: 7/5/2011
Sample Date: 7/5/2011
Sample Time: 8:00:00AM
Collected By: BM

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
245.1/245.1 (Aqueous) - Total Hg					Test was conducted by: Analytica - Thornton			
Mercury	<MRL	mg/L		0.00020	245.1	7/14/2011	7/14/2011	AT/
200.8/200.2 (Aqueous) - T/TR WW digested (mg/L					Test was conducted by: Analytica - Thornton			
Arsenic	0.0493	mg/L		0.0015	200.2	7/14/2011	7/15/2011	RM
Cadmium	<MRL	mg/L		0.0020	200.2	7/14/2011	7/15/2011	RM
Copper	0.00265	mg/L		0.0010	200.2	7/14/2011	7/15/2011	RM
Lead	0.00141	mg/L		0.0010	200.2	7/14/2011	7/15/2011	RM
Manganese	1.78	mg/L		0.00050	200.2	7/14/2011	7/18/2011	RM
Silver	<MRL	mg/L		0.0010	200.2	7/14/2011	7/15/2011	RM
Zinc	0.0319	mg/L		0.0025	200.2	7/14/2011	7/15/2011	RM

Lab#: A1107064-01E

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
4500-NH3D/4500-NH3D (Aqueous) - Ammonia					Test was conducted by: Analytica - Thornton			
Ammonia as N	4.9	mg/L		2.0	4500-NH	7/13/2011	7/13/2011	AT

QUARTERLY SAMPLE (OCTOBER 2011)

ANALYTICA GROUP

Analytica Anchorage
4307 Arctic Boulevard
Anchorage, AK 99503
Phone: 907-258-2155
Fax: 907-258-6634

XTO Energy, Inc.
Attn: Ryan Tunseth
52260 Shell Road
Cell 398-1293
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Report Date: 10/18/2011
Receipt Date: 10/4/2011
Sample Date: 10/4/2011
Sample Time: 6:30:00AM
Collected By: RS

Client Sample ID: Onshore Produced Water
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
245.1/245.1 (Aqueous) - Total Hg					Test was conducted by: Analytica - Thornton			
Mercury	<MRL	mg/L		0.00020	245.1	10/10/2011	10/11/2011	KG
200.8/200.2 (Aqueous) - T/TR WW digested (mg/L					Test was conducted by: Analytica - Thornton			
Arsenic	0.0587	mg/L		0.0015	200.2	10/10/2011	10/11/2011	RM
Cadmium	<MRL	mg/L		0.0020	200.2	10/10/2011	10/11/2011	RM
Copper	0.00219	mg/L		0.0010	200.2	10/10/2011	10/11/2011	RM
Lead	0.00157	mg/L		0.0010	200.2	10/10/2011	10/11/2011	RM
Manganese	1.37	mg/L		0.00050	200.2	10/10/2011	10/11/2011	RM
Silver	0.00882	mg/L		0.0010	200.2	10/10/2011	10/11/2011	RM
Zinc	0.0382	mg/L		0.0025	200.2	10/10/2011	10/11/2011	RM

Lab#: A1110053-01E

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
4500-NH3D/4500-NH3D (Aqueous) - Ammonia					Test was conducted by: Analytica - Thornton			
Ammonia as N	3.6	mg/L		2.0	4500-NH	10/14/2011	10/14/2011	KG

QUARTERLY SAMPLE (JANUARY 2012)

ANALYTICA GROUP

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Fax: 907-258-6634

XTO Energy, Inc.
Attn: Ryan Tunseth
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Report Date: 1/18/2012
Receipt Date: 1/4/2012
Sample Date: 1/4/2012
Sample Time: 6:45:00AM
Collected By: GW

Client Sample ID: Onshore Produced #1 Water Surge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
625 (Aqueous) - PAHW						*Test was conducted by: Analytica - Thornton*			
Fluoranthene	<MDL	ug/L		11	1.1		1/10/2012	1/16/2012	KH
Fluorene	9.4	ug/L	J	11	1.0		1/10/2012	1/16/2012	KH
Indeno(1,2,3-cd)pyrene	<MDL	ug/L		11	0.47		1/10/2012	1/16/2012	KH
Naphthalene	220	ug/L		21	1.3		1/10/2012	1/16/2012	KH
Phenanthrene	11	ug/L		11	0.91		1/10/2012	1/16/2012	KH
Pyrene	<MDL	ug/L		11	0.83		1/10/2012	1/16/2012	KH
Surrogate Recoveries	**% Rec**	**Limits**							
2-Fluorobiphenyl	**85.7**	(43-116)		11	0.59		1/10/2012	1/16/2012	KH
D14-Terphenyl	**48.0**	(33-141)		11	0.25		1/10/2012	1/16/2012	KH
D5-Nitrobenzene	**91.0**	(35-114)		11	0.43		1/10/2012	1/16/2012	KH

Lab#: A1201015-01C

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
4500-NH3D/4500-NH3D (Aqueous) - Ammonia					*Test was conducted by: Analytica - Thornton*			
Ammonia as N	4.2	mg/L		2.0	4500-NH	1/11/2012	1/11/2012	KLIBHA

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52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Report Date: 1/18/2012
Receipt Date: 1/4/2012
Sample Date: 1/4/2012
Sample Time: 6:45:00AM
Collected By: GW

Client Sample ID: Onshore Produced #1 Water Surge
Sampling Location.
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Lab#: A1201015-01D

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
245.1/245.1 (Aqueous) - Total Hg					*Test was conducted by: Analytica - Thornton*			
Mercury	<MRL	mg/L		0.00020	245.1	1/16/2012	1/16/2012	KL
200.8/200.2 (Aqueous) - T/TR WW digested (mg/L					*Test was conducted by: Analytica - Thornton*			
Arsenic	0.0644	mg/L		0.0030	200.2	1/10/2012	1/12/2012	RM
Cadmium	<MRL	mg/L		0.0040	200.2	1/10/2012	1/12/2012	RM
Copper	0.00357	mg/L		0.0020	200.2	1/10/2012	1/12/2012	RM
Lead	0.00249	mg/L		0.0020	200.2	1/10/2012	1/12/2012	RM
Manganese	1.48	mg/L		0.0010	200.2	1/10/2012	1/12/2012	RM
Silver	0.00918	mg/L		0.0020	200.2	1/10/2012	1/12/2012	RM
Zinc	0.0505	mg/L		0.0050	200.2	1/10/2012	1/12/2012	RM

Lab#: A1201015-01E

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
624 (Aqueous) - VOC						*Test was conducted by: Analytica - Thornton*			
1,2-Dichlorobenzene	<MDL	ug/L		20	1.7		1/10/2012	1/10/2012	TL
1,3-Dichlorobenzene	<MDL	ug/L		20	1.7		1/10/2012	1/10/2012	TL
1,4-Dichlorobenzene	<MDL	ug/L		20	1.5		1/10/2012	1/10/2012	TL

APPENDIX A

XTO Energy - East Forelands AKG315003
Produced Water Metals and Ammonia Sample Results
(April 2011 to March 2012)

SP Analytica, Inc.-Anchorage
4307 Arctic Blvd
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907 258 2155
Fax 907-258 6834

4/19/2011

XTO Energy, Inc.
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
Attn: Ryan Tunseth

Work Order #: A1104069
Date: 4/19/2011
Work ID: Quarterly Event
Date Received: 4/6/2011

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A1104069-01	Effluent Discharge	A1104069-02	Trip Blank

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Claire Toon
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Alaska Inc.

Work Order: A1104069

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Methods for the Determination of Metals in Environmental Samples, EPA/600/R-94/111, May 1994.

Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA 600/4-82-057, July 1982.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.

USEPA Method 1664, EPA-821-B-94-004b, N-Hexane Extractable Material (HEM) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry (Oil and Grease and Total Petroleum Hydrocarbons), April 1995.

Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR, Part 136, 7-1-99 Edition.

SAMPLE RECEIPT:
Two (2) samples were received on 4/6/2011 2:20:00 PM, at a temperature of 4°C, at Analytica-Anchorage. The samples were received in good condition and in order per chain of custody.

The samples were transferred for analysis to Analytica Environmental Laboratories (AEL), 12189 Pennsylvania St., Thornton, Colorado 80241, where they were received at a temperature of 3.8°C, in good condition and in order per chain of custody on 4/8/2011.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN
A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: 245.1 - Mercury by CVAA - Total Hg - Aqueous

Test Method: SM4500-NH3D - Ammonia, Selective Electrode Method - Ammonia - Aqueous

Test Method: 624 - Purgeable Organics by GC/MS - VOC - Aqueous

Test Method: 1664 Hexane Extractable Material - Oil & Grease - Aqueous

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:

Case Narrative

Analytica Alaska Inc.

Work Order: A1104069

(continued)

Insufficient sample volume was provided to perform a matrix spike and matrix spike duplicate. The LCS gave acceptable recovery.

Test Method: 200.8 - Metals by ICP/MS - T/TR WW digested (mg/L - Aqueous

MS/MSD and DUP OUTLIERS:
Zinc was recovered outside the acceptance limits in the batch Matrix Spike Duplicate. However, the spiked sample is not associated with this project.

Test Method: 625 - Base-Neutrals and Acids by GC/MS - PAHW - Aqueous

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
Insufficient sample volume was provided to perform a matrix spike and matrix spike duplicate. The LCS gave acceptable recovery.

OPENING CONTINUING CALIBRATIONS:
Two targets were recovered outside the acceptance limits in the opening CCV, as shown below. Since these are elevated recoveries, and these targets were not detected in the associated sample, there is no impact on the data.

RunDate	Data File	Analyte	Recovery	LCL	UCL
4/13/2011 12:07:00 PM	11041302.D	Dibenzo(a,h)anthracene	125.	80	120
4/13/2011 12:07:00 PM	11041302.D	Indeno(1,2,3-cd)pyrene	124	80	120

Analytica Alaska, Inc

XTO Energy Inc.
52260 Shell Rd.
Kenai, AK 99611
Attn: Ryan Tunseth

Project: Quarterly Sampling
Sample Name: Effluent Discharge
Date of Sample: 4/6/2011

Parameter	Concentration (ug/l)
624 BTEX & Chlorobenzenes	**4/6/2011**
Benzene	5900
Toluene	2900
Ethylbenzene	230
Xylenes, Total	870
1,2-Dichlorobenzene	<20
1,3-Dichlorobenzene	<20
1,4-Dichlorobenzene	<20
Chlorobenzene	<20
625 PAH	**4/6/2011**
Naphthalene	320
Acenaphthylene	<5.2
Acenaphthene	<5.2
Fluorene	7.3
Phenanthrene	8.7
Anthracene	<5.2
Fluoranthene	<5.2
Pyrene	<5.2
Benzo(a)anthracene	<5.2
Chrysene	<5.2
Benzo(b)fluoranthene	<5.2
Benzo(k)fluoranthene	<5.2
Benzo(a)pyrene	<5.2
Indeno(1,2,3-cd)pyrene	<5.2
Dibenzo(a,h)anthracene	<5.2
Benzo(g,h,i)perylene	<5.2
Total Aqueous Aromatic Hydrocarbons (TAqH)	10230
Total Aromatic Hydrocarbons (TAH)	9900

ANALYTICA GROUP

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Fax: 907 258 6634

XTO Energy, Inc.
Attn: Ryan Tunseth
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776 2510
Fax: 907 776-2542

Report Date: 4/19/2011
Receipt Date: 4/6/2011
Sample Date: 4/6/2011
Sample Time: 7:10:00AM
Collected By: BM

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Lab# A1104069-01A

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
1664/1664 (Aqueous) - Oil & Grease					*Test was conducted by: Analytica - Thornton*			
Hexane-Extractable Material	6.1	mg/L		5.3	1664	4/14/2011	4/15/2011	SS

Lab# A1104069-01B

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
624 (Aqueous) - VOC						*Test was conducted by: Analytica - Thornton*			
1,2-Dichlorobenzene	<MDL	ug/L		20	1.7		4/13/2011	4/13/2011	TL
1,3-Dichlorobenzene	<MDL	ug/L		20	1.7		4/13/2011	4/13/2011	TL
1,4-Dichlorobenzene	<MDL	ug/L		20	1.5		4/13/2011	4/13/2011	TL
Benzene	5900	ug/L		100	30		4/13/2011	4/13/2011	TL
Chlorobenzene	<MDL	ug/L		20	0.99		4/13/2011	4/13/2011	TL
Ethylbenzene	230	ug/L		10	3.0		4/13/2011	4/13/2011	TL
m&p Xylenes	520	ug/L		10	5.0		4/13/2011	4/13/2011	TL
O-Xylene	350	ug/L		10	2.0		4/13/2011	4/13/2011	TL
Toluene	2900	ug/L		100	30		4/13/2011	4/13/2011	TL

ANALYTICA GROUP

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XTO Energy, Inc
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52260 Shell Road
Cell 398-1233
Kenai, AK 99611
907 776-2510
Fax: 907 776-2542

Report Date: 4/19/2011
Receipt Date: 4/6/2011
Sample Date: 4/6/2011
Sample Time: 7:10:00AM
Collected By: BM

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
624 (Aqueous) - VOC						*Test was conducted by: Analytica - Thornton*			
Surrogate Recoveries	% Rec	Limits							
1,2-Dichloroethane-d4	103	(76-133)		20	5.0		4/13/2011	4/13/2011	TL
Dibromofluoromethane	101	(77-141)		20	2.0		4/13/2011	4/13/2011	TL
p-Bromofluorobenzene	103	(80-120)		20	5.0		4/13/2011	4/13/2011	TL
Toluene D-8	97.7	(81-129)		20	2.2		4/13/2011	4/13/2011	TL

Lab#: A1104069-01C

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
625 (Aqueous) - PAHW						*Test was conducted by: Analytica - Thornton*			
Acenaphthene	<MDL	ug/L		5.2	0.46		4/11/2011	4/13/2011	KH
Acenaphthylene	<MDL	ug/L		5.2	0.53		4/11/2011	4/13/2011	KH
Anthracene	<MDL	ug/L		5.2	0.45		4/11/2011	4/13/2011	KH
Benzo(a)anthracene	<MDL	ug/L		5.2	0.35		4/11/2011	4/13/2011	KH
Benzo(a)pyrene	<MDL	ug/L		5.2	0.27		4/11/2011	4/13/2011	KH
Benzo(b)fluoranthene	<MDL	ug/L		5.2	0.30		4/11/2011	4/13/2011	KH
Benzo(g,h,i)perylene	<MDL	ug/L		5.2	0.49		4/11/2011	4/13/2011	KH

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907 776-2510
Fax: 907 776-2542

Report Date: 4/19/2011
Receipt Date: 4/6/2011
Sample Date: 4/6/2011
Sample Time: 7:10:00AM
Collected By: BM

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
625 (Aqueous) - PAHW						*Test was conducted by: Analytica - Thornton*			
Benzo(k)fluoranthene	<MDL	ug/L		5.2	0.39		4/11/2011	4/13/2011	KH
Chrysene	<MDL	ug/L		5.2	0.21		4/11/2011	4/13/2011	KH
Dibenzo(a,h)anthracene	<MDL	ug/L		5.2	0.35		4/11/2011	4/13/2011	KH
Fluoranthene	<MDL	ug/L		5.2	0.53		4/11/2011	4/13/2011	KH
Fluorene	7.3	ug/L		5.2	0.49		4/11/2011	4/13/2011	KH
Indeno(1,2,3-cd)pyrene	<MDL	ug/L		5.2	0.23		4/11/2011	4/13/2011	KH
Naphthalene	320	ug/L		100	6.4		4/11/2011	4/13/2011	KH
Phenanthrene	8.7	ug/L		5.2	0.45		4/11/2011	4/13/2011	KH
Pyrene	<MDL	ug/L		5.2	0.41		4/11/2011	4/13/2011	KH
Surrogate Recoveries	% Rec	Limits							
2-Fluorobiphenyl	68.0	(43-116)		5.2	0.29		4/11/2011	4/13/2011	KH
D14-Terphenyl	56.1	(33-141)		5.2	0.12		4/11/2011	4/13/2011	KH
D5-Nitrobenzene	72.9	(35-114)		5.2	0.21		4/11/2011	4/13/2011	KH

Lab#: A1104069-01D

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Fax 907 776 2542

Report Date: 4/19/2011
Receipt Date: 4/6/2011
Sample Date: 4/6/2011
Sample Time: 7:10:00AM
Collected By: BM

Client Sample ID: Effluent Discharge
Sampling Location:
Client Project: Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
245.1/245.1 (Aqueous) - Total Hg					*Test was conducted by: Analytica - Thornton*			
Mercury	<MRL	mg/L		0.00020	245.1	4/15/2011	4/15/2011	AT
200.8/200.2 (Aqueous) - T/TR WW digested (mg/L					*Test was conducted by: Analytica - Thornton*			
Arsenic	0.0431	mg/L		0.0015	200.2	4/12/2011	4/13/2011	RM
Cadmium	<MRL	mg/L		0.0020	200.2	4/12/2011	4/13/2011	RM
Copper	<MRL	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Lead	0.00624	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Manganese	1.33	mg/L		0.00050	200.2	4/12/2011	4/13/2011	RM
Silver	<MRL	mg/L		0.0010	200.2	4/12/2011	4/13/2011	RM
Zinc	0.0813	mg/L		0.0025	200.2	4/12/2011	4/13/2011	RM

Lab#: A1104069-01E

Analysis Method Parameter	Result	Units	Flags	MRL	Prep Method	Prep Date	Analysis Date	Analyst
4500-NH3D/4500-NH3D (Aqueous) - Ammonia					*Test was conducted by: Analytica - Thornton*			
Ammonia as N	3.3	mg/L		0.50	4500-NH	4/14/2011	4/14/2011	AT

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907 776-2510
Fax 907 776-2542

Report Date 4/19/2011
Receipt Date 4/6/2011
Sample Date 4/6/2011
Sample Time 7 10:00AM
Collected By Lab

Client Sample ID: Trip Blank
Sampling Location:
Client Project Quarterly Event
Sample Matrix: Aqueous
COC #:
PWS#:
Residual Chlorine:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected
TNC = Too Numerous to Count - result rejected
CF = Confluent Growth - result rejected
TCNG = Turbid Culture No Growth - rejected

Lab#: A1104069-02A

Analysis Method

Parameter	Result	Units	Flags	MRL	MDL	Prep Method	Prep Date	Analysis Date	Analyst
624 (Aqueous) - VOC						Test was conducted by: Analytica - Thornton			
1,2-Dichlorobenzene	<MDL	ug/L		2.0	0.17		4/13/2011	4/13/2011	TL
1,3-Dichlorobenzene	<MDL	ug/L		2.0	0.17		4/13/2011	4/13/2011	TL
1,4-Dichlorobenzene	<MDL	ug/L		2.0	0.15		4/13/2011	4/13/2011	TL
Benzene	<MDL	ug/L		1.0	0.30		4/13/2011	4/13/2011	TL
Chlorobenzene	<MDL	ug/L		2.0	0.099		4/13/2011	4/13/2011	TL
Ethylbenzene	<MDL	ug/L		1.0	0.30		4/13/2011	4/13/2011	TL
m&p Xylenes	<MDL	ug/L		1.0	0.50		4/13/2011	4/13/2011	TL
O-Xylene	<MDL	ug/L		1.0	0.20		4/13/2011	4/13/2011	TL
Toluene	<MDL	ug/L		1.0	0.30		4/13/2011	4/13/2011	TL
Surrogate Recoveries	% Rec	Limits							
1,2-Dichloroethane d4	103	(76-133)		2.0	0.50		4/13/2011	4/13/2011	TL
Dibromofluoromethane	102	(77-141)		2.0	0.20		4/13/2011	4/13/2011	TL
p-Bromofluorobenzene	104	(80-120)		2.0	0.50		4/13/2011	4/13/2011	TL
Toluene D-8	101	(81-129)		2.0	0.22		4/13/2011	4/13/2011	TL

Analytica Chain of Custody Form

ANALYTICA GROUP

5436 Shaune Drive
Juneau, AK 99801
(907) 780-6668
(907) 780-6670 fax

4307 Arctic Blvd.
Anchorage, AK 99503
(907) 258-2155
(907) 258-6634 fax

475 Hall St.
Fairbanks, AK 99701
(907) 456-

12189 Pennsylvania St.
Thornton, CO

Chain of Custody No:

Client Name & Address:
XTO, Energy, Inc.
52260 Shell Road
Kenai, AK 99611-9704

Contact Person: Ryan Tunseth
Phone No: (907) 776 - 2510
Fax No:
E-mail:
Special Instructions/Comments:

Public Water System ID#:
Project Name: Quarterly Sampling Event

Turnaround Time for Results (TAT)
___ Standard ___ Expedited (< 10 days, prior authorization (please specify due date below, add'l charges may apply)

Results Due Date:

Section To be Completed by Analytica
Quote ID No: A08030019
LGN: A1104069
Account #: Cash: Credit Card:

Invoice to Name & Address:

P.O. or Contract No:

Lab Bottle Order No:

Requested Analysis/Method

Client Sample Identification / Location	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Oil & Grease	TAqH 624	PAH 625	200.8/245.1 Metals	Ammonia 4500	pH				Comments
Effluent Discharge	4/6/11	0710			2	4	2	1	1	1				
Trip Blanks				2		x								

Collected/Relinquished by:	Date	Time	Received by:	Date	Time
B. II McGraw	4/6/11	0710	[signature]	4/6/11	1420
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received by:	Date	Time
Name of Sampler: (printed)	B. II McGraw				

To be Completed by Analytica

	THO	ANC	JUN	FBKS
Chain-of-Custody Seal?				
Initialed By:		BM		
Temp/Loc:		4°C		
Shipping Via:		DICNT		

SP-Analytica, Inc.-Anchorage
4307 Arctic Blvd.
Anchorage, AK 99503
907 258 2155
Fax: 907 258 6634

7/19/2011

XTO Energy, Inc.
52260 Shell Road
Cell 398-1233
Kenai, AK 99611
Attn: Ryan Tuniseth

Work Order #: A1107064
Date: 7/19/2011
Work ID: Quarterly Event
Date Received: 7/5/2011

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A1107064-01	Effluent Discharge	A1107064-02	Trip Blank

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Claire Toon
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Alaska Inc.

Work Order: A1107064

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Methods for the Determination of Metals in Environmental Samples, EPA/600/R-94/111, May 1994.

Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA 600/4-82-057, July 1982.

Standard Methods for the Examination of Water and Wastewater, 20th Edition, 1998.

USEPA Method 1664, EPA-821-B-94-004b, N-Hexane Extractable Material (HEM) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM) by Extraction and Gravimetry (Oil and Grease and Total Petroleum Hydrocarbons), April 1995.

Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR, Part 136, 7-1-99 Edition.

SAMPLE RECEIPT:
Two (2) samples were received on 7/5/2011 3:35:00 PM, at a temperature of 23.7°C, at Analytica-Anchorage. The samples were received in good condition and in order per chain of custody.

Comments: The sample was received at a temperature greater than 6.0°C. However, the cooler temperature was 4.9°C, indicating that the sample did not have sufficient time to cool to 6°C prior to laboratory receipt.

The samples were transferred for analysis to Analytica Environmental Laboratories (AEL), 12189 Pennsylvania St., Thornton, Colorado 80241, where they were received at a temperature of 0.5°C, in good condition and in order per chain of custody on 7/12/2011.

Comments: All VOA vials had small air bubbles present.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN
A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: 200.8 - Metals by ICP/MS - T/TR WW digested (mg/L - Aqueous

Test Method: 245.1 - Mercury by CVAA - Total Hg - Aqueous

Case Narrative

Analytica Alaska Inc.
Work Order: A1107064
(continued)

Test Method: 624 - Purgeable Organics by GC/MS - VOC - Aqueous

Test Method: SM4500-NH3D - Ammonia, Selective Electrode Method - Ammonia - Aqueous

Test Method: 1664 Hexane Extractable Material - Oil & Grease - Aqueous

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
Insufficient sample volume was provided to perform a matrix spike and matrix spike duplicate. The LCS gave acceptable recovery.

Test Method: 625 - Base-Neutrals and Acids by GC/MS - PAHW - Aqueous

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
Insufficient sample volume was provided to perform a matrix spike and matrix spike duplicate. The LCS gave acceptable recovery. The sample had a strong sulfur smell.

OPENING CONTINUING CALIBRATIONS:
One target was recovered outside the acceptance limits in the opening CCV shown below. Since this is an elevated recovery, and this target was not detected in the associated sample, there is no impact on the data.

RunDate	Data File	Analyte	Recovery	LCL	UCL
7/15/2011 10:31:00 AM	11071502.D	Dibenzo(a,h)anthracene	128.	80	120

sampling data records, chain of custody and lab sheets.

Timing Goal. We discussed a goal of having XTO make these submissions within an approximate 30-day time frame. I would appreciate it if you could make the complete submissions of both the DMR corrections and requested records by Monday, October 1, 2012. Please call me if you have problems with this proposed submission date.

I hope this email correctly summarizes our discussion. As noted, please do not hesitate to call me if any concerns or questions.

Thank you in advance for your anticipated cooperation.

Rick Cool
NPDES Compliance Unit
US EPA Region 10
1200 Sixth Avenue, Suite 900, OCE-133
Seattle, WA 98101

Phone: (206) 553-6223
Fax: (206) 553-1280

From: (907) 776-2510
Ryan Tunseth
XTO Energy, Inc
52260 Shell Road

Kenai, AK 99611

Origin ID: ENAA

FedEx Express

J122012071603 25

Ship Date: 31AUG12
ActWgt: 1.0 LB
CAD: 4402293/INET3300

Delivery Address Bar Code

SHIP TO: (800) 424-4372 BILL SENDER

Rick Cool - Region 10
NPDES Compliance Unit : US EPA
1200 Sixth Avenue
Suite 900, OCE-133
Seattle, WA 98101

Ref #
Invoice #
PO #
Dept #

TUE - 04 SEP A1
PRIORITY OVERNIGHT

TRK# 7988 6754 0442
0201

98101
WA-US
SEA

WV LKEA

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From: (907) 776-2510
Ryan Tunseth
XTO Energy, Inc
52260 Shell Road

Kenai, AK 99611

Origin ID: ENAA

FedEx Express

J122012071603/25

Ship Date: 31AUG12
ActWgt: 1.0 LB
CAD: 4402293/INET3300

Delivery Address Bar Code

SHIP TO: (800) 424-4372 BILL SENDER

U.S. Envmtl. Protection Agency
Dir., Office of Comp. & Enforcement
Region 10
1200 Sixth Avenue, OCE - 133
Seattle, WA 98101

Ref #
Invoice #
PO #
Dept #

TUE - 04 SEP A1
PRIORITY OVERNIGHT

TRK# 7988 6752 6438
0201

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98101
WA-US
SEA

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From: (907) 776-2510
Ryan Tunseth
XTO Energy, Inc
52260 Wik Road

Kenai, AK 99611

Origin ID: ENAA

FedEx Express

J122012071903/25

Ship Date: 31AUG12
ActWgt 0.5 LB
CAD: 4402293/INET3300

Delivery Address Bar Code

SHIP TO: (907) 269-7500 BILL SENDER

A.D.E.C. ATTN: Watershed Mgmt.
Alaska Dept. of Env. Conservation
555 Cordova Street

Anchorage, AK 99501

Ref #
Invoice #
PO #
Dept #

TUE - 04 SEP A4
PRIORITY OVERNIGHT

TRK# 7988 6751 8407
0201

99501
AK-US
ANC

Q1 CYMA

515G2/0C34/AA44

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