District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERATOR Initial Report Signal Fig.						Final Repor		
Name of Co	mpany X	TO Energy,	Inc.			Contact: James McDaniel								
Address: 38	2 Road 31	00, Aztec, N	ew Mexi	co 87410		Telephone No.: (505) 333-3701								
Facility Nan	ne: WF Fe	deral 5-2 (30	0-045-29	353)		Facility Type: Gas Well (Fruitland Coal)								
Surface Own	ner: Feder	a l		Mineral Ov	unor:									
Surface Owl	iler. Peder	11		Willelai Ov	VIICI.	er: Lease No.:								
				LOCA	TIO	N OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the	North/	h/South Line Feet from the			Vest Line	County				
K	5	29N	14W	1655		FSL	1570	F	WL	San Juan				
	, , , , , , , , , , , , , , , , , , ,			Latitude: 3		•		<u> </u>						
T (D)	D 1	1.337		NATU	JRE	OF RELI								
Type of Relea							Release 21 bbls our of Occurrence			tecovered 2 Hour of Disc				
Source of Ker	ease wate	Line				March 5, 2		e		2011 – 13·30				
Was Immediate Notice Given?						If YES, To		1	William 5,	2011 13 3				
`			Yes [No 🛛 Not Req	uired	, , ,			RO	:VD MAR 3	0.1	<u>i</u>		
By Whom?	James McD	anıel				Date and H	our		Ω	IL CONS.	DIU.			
Was a Water	ourse Reac					If YES, Vo	lume Impacting t	he Wate		DIST.				
			Yes 🛚	No						Lan.	3			
If a Watercou Describe Cau On March 5.	se of Proble	em and Remed	dial Action		well si	te An estima	ated 21 bbls of pro	oduced	water leake	d from a rup	otured I	ine at the		
separator, run with approxir	ning into the	e lined pit cel soaking in to	lar The l the sorl in	eak was stopped ar nside the bermed ar es, due to an estima	nd the dream	damaged line In the pit cel	replaced. 20 bbls lar. The site was	of wate	ei was reco	vered from t	he line	d pit cellar,		
(1) sample wa were re-done returned resul chloride resul to be 46 ppm	2011, two (as collected and put bac its below th ts of 3,000 chlorides d of the spills	2) composite in the pit cell ik into service e regulatory s ppm, while th uring a previo impact area to	samples war The war The spil tandards de sample ous sample ous sample	rere collected from ater tank and cellar lacomposite sample etermined for this strom the BGT cellar event. Due to the airst lacom the being event.	liner ste for retur elow	were removed analyzed for DRO/GRO and a chloride amount of wa	I due to the eroding DRO/GRO, BTE and for BTEX The results of 1,400 ater lost, a depth to	ng soil a EX and o he samp ppm T o groun	round the p chlorides. I le from ins he backgro dwater of o	out cellar The Both spill could be the berm and for this over 50 feet,	ne cella imposit led area site wa and the	r and BGT re samples a returned as determined		
regulations al public health should their o	l operators or the environment In a	are required to comment. The ave failed to a ddition, MMC	report ar acceptant dequately CD accep	is true and comple id/or file certain rel ce of a C-141 repore investigate and rel stance of a C-141 re	ease n t by the nedrat	otifications ar e NMOCD m e contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive act eport" d eat to gr	ons for rele oes not rele ound water	eases which eve the oper , surface wa	may er ator of ter, hur	ndanger `lıabilıty man health		
Signature.	///		/. ~/	/			OIL CON	SERV	ATION	DIVISIC	<u>N</u>			
Printed Name	James Mo	Daniel	1.00		Approved by	District Supervise	or Dz	d or	Pl _					
Title. EH&S	Specialist					Approval Dat	e 3/30/11		Expiration	Date.				
E-mail Addre	ss James l	McDaniel@xt	oenergy.c	om		Conditions of	• •			Attached				
Date 3/28/2	2011		Pho	one 505-333-3701		NJKI	1223395	546						

ENERGY	,	rgy On-Site Forn		
Well Name WF Section 5K Contractors On-Site Spill Amount	Township 29N Ra OFT Cn bbls Spilled (Oil / Pro Residential / Tribe	S Time On-Site / Other	Time	e Off-Site)
n e s			Sample Loca	ation
- weder seeped Comments * no o	BGT and cellar d under liner odor, skeen or coa	liner upon arrival	Sample Local	
Samples	December 1	4	Total (annual)	The Democratical
Time Sample #	Sample Description 100 Standard	Characteristics NA	OVM (ppm)	Analysis Requested NA
1200 1		Wet, brown, Sandy loam		8015 8021 Chloria
	Spill composite in cellar			ECIS ECOI, Chloric
Name (Print) Saw	nes McDaniel	 / Company	Date 3/7	Energy, Inc

:



12065 Lebanon Rd Mt Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I D 62-0814289

Est 1970

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Report Summary

Friday March 11, 2011

Report Number: L505078
Samples Received: 03/08/11
Client Project:

Description: WF Federal 5-2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By.

Mark W. Beasley , ECC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

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

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

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REPORT OF ANALYSIS

March 11,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample # L505078-01

March 08, 2011 WF Federal 5-2 Date Received Description

Site ID WF FEDERAL 5-2

Sample ID SPILL COMPOSITE INSIDE BERM

Project #

James McDaniel 03/07/11 12 00 Collected By Collection Date

Parameter	Dry Result	Det Limit	Units	Method	Date	Dıl
Chloride	3000	63	mg/kg	9056	03/09/11	5
Total Solids	80		8	2540G	03/11/11	1
Benzene	BDL	0 0031	mg/kg	8021/8015	03/08/11	5
Toluene	BDL	0.031	mg/kg	8021/8015	03/08/11	5
Ethylbenzene	BDL	0 0031	mg/kg	8021/8015	03/08/11	5
Total Xylene	BDL	0 0094	mg/kg	8021/8015	03/08/11	5
TPH (GC/FID) Low Fraction	BDL	0 63	mg/kg	GRO	03/08/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	95 9		% Rec	8021/8015	03/08/11	5
a,a,a-Trifluorotoluene(PID)	97 2		% Rec	8021/8015	03/08/11	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	38	5 0	mg/kg	3546/DRO	03/10/11	1
o-Terphenyl	86 8		% Rec	3546/DRO	03/10/11	1

Results listed are dry weight basis BDL - Below Detection Limit Det Limit - Practical Quantitation Limit(PQL)

Note
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The reported analytical results relate only to the sample submitted
Reported 03/11/11 13 10 Printed 03/11/11 13·11



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YOUR LAB OF CHOICE

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REPORT OF ANALYSIS

March 11,2011

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

ESC Sample #

L505078-02

Date Received Description

March 08, 2011 WF Federal 5-2

Site ID

WF FEDERAL 5-2

Sample ID

SPILL COMPOSITE IN CELLAR

Collected By Collection Date James McDaniel 03/07/11 12 05

Project #

Parameter	Dry Result	Det Limit	Units	Method	Date	Dıl
Chloride	1400	24	mg/kg	9056	03/09/11	2
Total Solids	84		8	2540G	03/11/11	1
Benzene	BDL	0 0030	mg/kg	8021/8015	03/08/11	5
Toluene	BDL	0 030	mg/kg	8021/8015	03/08/11	5
Ethylbenzene	BDL	0 0030	mg/kg	8021/8015	03/08/11	5
Total Xylene	BDL	0 0089	mg/kg	8021/8015	03/08/11	5
TPH (GC/FID) Low Fraction	BDL	0 60	mg/kg	GRO	03/08/11	5
Surrogate Recovery-%			5. 5			
a,a,a-Trifluorotoluene(FID)	90 8		% Rec	8021/8015	03/08/11	5
a,a,a-Trifluorotoluene(PID)	91 4		% Rec	8021/8015	03/08/11	5
TPH (GC/FID) High Fraction Surrogate recovery(%)	BDL	4 8	mg/kg	3546/DRO	03/10/11	1
o-Terphenyl	94 5		% Rec	3546/DRO	03/10/11	1

Results listed are dry weight basis BDL - Below Detection Limit Det Limit - Practical Quantitation Limit(PQL)

Note
This report shall not be reproduced, except in full, without the written approval from ESC The reported analytical results relate only to the sample submitted Reported 03/11/11 13 10 Printed 03/11/11 13 11

Summary of Remarks For Samples Printed 03/11/11 at 13 11 15

TSR Signing Reports 288 R4 - Rush Three Day

drywt

Sample L505078-01 Account XTORNM Received 03/08/11 08 30 Due Date 03/11/11 00 00 RPT Date 03/11/11 13.10 Sample L505078-02 Account XTORNM Received 03/08/11 08 30 Due Date 03/11/11 00 00 RPT Date 03/11/11 13.10



Aztec, NM 87410

XTO Energy - San Juan Division James McDaniel 382 Road 3100

Quality Assurance Report

Est 1970

12065 Lebanon Rd Mt Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I D 62-0814289

Level II

March 11, 2011 L505078

			1303070						
			atory Blan						
Analyte	Result	Unit	s %	Rec	Limit	Ba	tch Dat	e Analyzed	
Benzene	< 0005	, mg/k	a			WG	524978 03/	08/11 21 06	
Ethylbenzene	< 0005	mq/k				WG	524978 03/	08/11 21 06	
Toluene	< 005	mq/k						08/11 21 06	
TPH (GC/FID) Low Fraction	< 1	mg/k						08/11 21 06	
Total Xylene	< 0015	mq/k						08/11 21 06	
a,a,a-Trifluorotoluene(FID)		% Re		96 46	59-128			08/11 21 06	
a,a,a-Trifluorotoluene(PID)		% Re		98 05	54-144		WG524978 03/08/		
Chloride	< 10	_mg/k	ā			WG	524727 03/	09/11 09 50	
TPH (GC/FID) High Fraction	< 4	ppm				WG	524988 03/	10/11 15 24	
o-Terphenyl		% Re	С	95 81	50-150	WG	524988 03/	10/11 15 24	
Total Solids	< 1	¥				WĜ	525312 03/	<u>11/11</u> 10 33	
		n	uplicate						
Analyte	Units	Result	Duplicat	e RPD	Limit	R	ef Samp	Batch	
Chloride	mg/kg	1200	1200	4 26	20	L	505078-02	_WG524727	
Total Solids	*	89 0	90 2	1 16	5	L	505101-02	WG525312	
			y Control						
Analyte	Units	Known Va	1	Result	% Rec	L1	mıt	Batch	
Benzene	mg/kg	05	0	0503	101	76	-113	WG524978	
Ethylbenzene	mg/kg	05	0	0481	96 3	78	-115	WG524978	
Toluene	mg/kg	05	0	0479	95 8	76-114		WG524978	
Total Xylene	mg/kg	15	0	0 144 96 2		81-118		WG524978	
a,a,a-Trifluorotoluene(PID)					99 15	54	-144	WG524978	
TPH (GC/FID) Low Fraction	mg/kg	5 5	5	41	98 4	67	-135	WG524978	
a,a,a-Trifluorotoluene(FID)	,				102 7 ~	. 59	-128	· WG524978	
Chloride	mg/kg	200	2	14	107	85	-115	WG524727	
	g/ //g								
TPH (GC/FID) High Fraction	ppm	60	4	8 6	81 0		-150	WG524988	
o-Terphenyl					86 66	50	-150	WG524988	
Total Solids		50	5	0 0	100	85	-155	WG525312	
	La	aboratory Con	trol Sampl	e Duplicate					
Analyte		Result Re		Rec	Limit	RPD	Limit	Batch	
Benzene	mg/kg 0	0 0522 0	0503 1	04	76-113	3 80	20	WG524978	
Ethylbenzene	mg/kg 0	0500 0	0481 1	00	78-115	3 74	20	WG524978	
Toluene		0 0499 0	0479 1	00	76-114	4 05	20	WG524978	
Total Xylene	mg/kg 0	150 0	144 1	00	81-118	3 95	20	WG524978	
a,a,a-Trifluorotoluene(PID)	<u>.</u>			97 09	54-144			WG524978	
TPH (GC/FID) Low Fraction	mg/kg 5	5 42 5	41 9	8 0	67-135	0 130	20	WG524978	
a,a,a-Trifluorotoluene(FID)	- *		1	02 8	59-128			WG524978	
, -,	-								

^{*} Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers '



Aztec, NM 87410

XTO Energy - San Juan Division 382 Road 3100

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Tax I D 62-0814289

Est 1970

Quality Assurance Report Level II

L505078

March 11, 2011

				Sample Dupl					D-1-1
Analyte	Units	Result	Ref	%Rec	Ьз	Lmıt	RPD	Limit	Batch
Chloride	mg/kg	210	214	105	85	5-115	1 89	20	WG5247:
TPH (GC/FID) High Fraction o-Terphenyl	ppm	50 2	48 6	84 0 89 46)-150)-150	3 25	25	WG5249
			Matrix S	Spike					
Analyte	Units	MS Res	Ref Re	es TV	% Rec	Limit		Ref Samp	Batch
Benzene	mq/kq	0 252	0	05	101	32-137		L505080-02	WG5249
Ethylbenzene	mg/kg	0 239	0	05	95 4	10-150		L505080-02	WG5249
Toluene	mg/kg	0 237	0	05	95 0	20-142		L505080-02	WG5249
Total Xylene	mg/kg	0 710	0	15	94 6	16-141		L505080-02	WG5249
a,a,a-Trifluorotoluene(PID)					96 04	54-144			WG5249
TPH (GC/FID) Low Fraction	mg/kg	23 7	0	5 5	86 3	55-109		L505080-02	WG5249
a,a,a-Trifluorotoluene(FID)					101 2	59-128			WG5249
TPH (GC/FID) High Fraction	mqq	52 3	0	60	87 1	50-150		L504852-19	WG5249
o-Terphenyl					91 16	50-150			WG5249
		Mat:	rıx Spıke	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0 249	0 252	99 7	32-137	1 16	39	L505080-02	WG5249
Ethylbenzene	mg/kg	0 233	0 239	93 3	10-150	2 26	44	L505080-02	WG5249
Toluene	mg/kg	0 229	0 237	91 6	20-142	3 62	42	L505080-02	WG5249
Total Xylene	mg/kg	0 698	0 710	93 0	16-141	1 75	46	L505080-02	WG5249
a,a,a-Trifluorotoluene(PID)				96 45	54-144				WG5249
TPH (GC/FID) Low Fraction	mg/kg	25 2	23 7	91 6	55-109	5 99	20	L505080-02	WG5249
a,a,a-Trıfluorotoluene(FID)				102 0	59-128				WG5249
TPH (GC/FID) High Fraction	mqq	54 8	52 3	91 2	50-150	4 61	25	L504852-19	WG5249
o-Terphenyl	**			101 3	50-150				WG5249

Batch number /Run number / Sample number cross reference

WG524978 R1603449 L505078-01 02 WG524727 R1605072 L505078-01 02 WG524988 R1606189 L505078-01 02 WG525312 R1606719 L505078-01 02

^{* *} Calculations are performed prior to rounding of reported values
* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers '



XTO Energy - San Juan Division James McDaniel 382 Road 3100

Aztec, NM 87410

Quality Assurance Report Level II

L505078

March 11, 2011

12065 Lebanon Rd Mt Jullet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859 Tax I D 62-0814289

Est 1970

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control" If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier

Page 6 of 6

												D064	
Company Name/Address			Alternate Bi	iling				Analy		tainer/Prese	rvative	• .	Chain of Custody
XTO Energy, Inc.			XTORNM	1031810S					\$2.50°				Pageof
382 County Road 3100												Prepared by	
Aztec, NM 87410							3		<u> </u>				
							1,0	, .	** ***			ENVIRON	
			Report to Jam	es McDaniel			\sim	10				Science co	
			·				1.%	\ <u>\</u>				12065 Leba	non Road
			E-mail to Jan	nes_McDaniel@:	ctoenergy com		4	70h	رد			Mt Juliet T	N 37122
PHONE 505-333-3701	Client Project N	5-	-2	Kir H	State Collected	M	<u> </u>	1-4) 20	<u> </u>		Phone (615	5)758-5858 O) 767-5859
FAX				-			1h	\mathcal{V}	.5	3 •			15)758-5859
Collected by James McDaniel	SatolEaulity ID	*		PO#			B			ľ		!	
·	Site/Facility ID#	ecle (ca	5-2	-			$\mathcal{L}_{\mathcal{Q}}$	1503				GoCode	(lab use only)
Collected by(signature)		ab MUST b		Date Result	ts Needed	No	0	્જ	3			XTORNM	
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spill composite inside	Comp	SS		3/7/11	1200	1	X	X	X				L 50507801
spill composite in cellar	Comp	s>		3/7/11	1205	1	12	X	*				و م م م م م م
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Tax I D 62-0814289

Est 1970

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Report Summary

Wednesday March 02, 2011

Report Number: L503822 Samples Received: 03/01/11 Client Project:

Description: WF Federal 5-2

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use $\,$ If you have any questions regarding this data package, please do not hesitate to call

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

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

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

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Tax I D 62-0814289

Est 1970

REPORT OF ANALYSIS

March 02,2011

Project #

James McDaniel XTO Energy - San Juan Division 382 Road 3100 Aztec, NM 87410

Date Received

March 01, 2011

WF Federal 5-2

Description Sample ID

BACKGROUND

Collected By Collection Date

James McDaniel 02/25/11 16 40

ESC Sample # L503822-02

Site ID WF FEDERAL 5-2

__Date Dil Dry Result Det Limit Units Method Parameter Chloride 46 13 mg/kg 9056 03/02/11 1 03/02/11 1 Total Solids 76 કૃ 2540G

Results listed are dry weight basis BDL - Below Detection Limit Det Limit - Practical Quantitation Limit(PQL) Note This report shall not be reproduced, except in full, without the written approval from ESC The reported analytical results relate only to the sample submitted Reported 03/02/11 12 49 Printed 03/02/11 13 11



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Aztec, NM 87410 L503822

March 02, 2011

Analyte	Result		boratory E nits	% Rec	,	Limit	Ra	tch Da	te Analyze
2.02,00	KESUIC		11+63	9 1/6	·	Dimic			
Benzene	< 000	5 m	ıq/kq				WG:	523768 03	/01/11 14
Sthylbenzene	< 000	5 m	ıg/kg				WG.	523768 03	/01/11 14
Toluene	< 005		ıq/kg				WG.	523768 03	/01/11 14
TPH (GC/FID) Low Fraction	< 1		g/kg						/01/11 14
Total Xylene	< 001		ıq/kq						/01/11 14
a,a,a-Trifluorotoluene(FID)	7 001		Rec	94 6	:2	59-128			/01/11 14
a,a,a-Trifluorotoluene (PID)			Rec	94		54-144			/01/11 14
TPH (GC/FID) High Fraction	< 4	p	pm				WG:	523502 03	/02/11 00
o-Terphenyl			Rec	96 (2	50-150	WG	523502 03	/02/11 00
Chloride	< 10	π	ng/kg				WG	523456 03	/01/11 12
Total Solids	< 1	%	i				WG	523815 03	/02/11_11
			Duplicat	:e					
Analyte	Units	Result	Dupl:	cate	RPD	Limit	R	ef Samp	Batch
Total Solids	*	75 0	76 1		1 59	5	L	503822-02	WG5238
		Labora	tory Conti	rol Samp	ole				
Analyte	Units	Known	Val	Res	sult	% Rec	Li	mıt	Batch
Benzene	mg/kg	05		0 046		92 2		-113	WG523
Ethylbenzene	mg/kg	05		0 049		90 6		-115	WG523
Coluene	mg/kg	05		0 0436		87 2		-114	WG523
Total Xylene	mg/kg	15		0 134		89 5		-118	WG523
a,a,a-Trıfluorotoluene(PID)						96 76		-144	WG523
TPH (GC/FID) Low Fraction	mg/kg	5 5		5 48		99 7		-135	WG5231
a,a,a-Trıfluorotoluene(FID)						100 9	59-128		WG5237
TPH (GC/FID) High Fraction	mag	60		51 9		86 4	50	-150	WG5235
o-Terphenyl	pp	•		31 3		84 38		-150	WG5235
Chloride	mg/kg	200		208		104	85	-115	WG5234
Total Solids	*	50		50 2		100	85	-155	WG5238
		Laboratory	Control Sa	ample Di	plicate				
Analyte	Units	Result	Ref	*Rec		Limit	RPD	Limit	Batch
Benzene	mg/kg	0 0476	0 0461	95 0		76-113	3 14	20	WG5237
Ethylbenzene	mg/kg	0 0463	0 0453	93 0		78-115	2 27	20	WG5237
Coluene	mg/kg	0 0460	0 0436	92 0		76-114	5 40	20	WG5237
Total Xylene	mg/kg	0 138	0 134	92 0		81-118	2 98	20	WG5237
a,a,a-Trifluorotoluene(PID)	_			96	71	54-144			WG5231
PH (GC/FID) Low Fraction	mg/kg	5 47	5 48	100		67-135	0 170	20	WG523
a,a,a-Trifluorotoluene(FID)				100	9	59-128			WG523

rphenyl
* Performance of this Analyte is outside of established criteria
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers '



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		Laborator	y Control	Sample Dup	licate				
Analyte	Units	Result	Ref	%Rec	L	ımıt	RPD	Limit	Batch
Chloride	mg/kg	203	208	102	8.	5-115	2 43	20	WG52345
			Matrix	Spike					
Analyte	Units	MS Res	Ref R	es TV	% Rec	Limit		Ref Samp	Batch
Benzene	mg/kg	0 226	0	05	90 2	32-137		L503819-01	WG52376
Ethylbenzene	mg/kg	0 220	0	05	87 8	10-150		L503819-01	WG52376
Toluene	mg/kg	0 225	0	05	898	20-142		L503819-01	WG52376
Total Xylene	mg/kg	0 661	0	15	88 1	16-141		L503819-01	WG52376
a,a,a-Trifluorotoluene(PID)					95 30	54-144			WG52376
TPH (GC/FID) Low Fraction	mg/kg	17 6	0	5 5	64 0	55-109		L503819-01	WG52376
a,a,a-Trıfluorotoluene(FID)					97 22	59-128			WG52376
TPH (GC/FID) High Fraction	mqq	82 2	22 0	60	100	50-150		L503819-02	WG52350
o-Terphenyl					69 83	50-150			WG52350
		Mat	rıx Spıke	Duplicate					
Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0 225	0 226	90 2	32-137	0 0500	39	L503819-01	WG52376
Ethylbenzene	mg/kg	0 217	0 220	86 7	10-150	1 33	44	L503819-01	WG52376
Toluene	mg/kg	0 218	0 225	87 3	20-142	2 85	42	L503819-01	WG52376
Total Xylene	mq/kq	0 646	0 661	86 1	16-141	2 33	46	L503819-01	WG52376
a,a,a-Trifluorotoluene(PID)	-			95 65	54-144				WG52376
TPH (GC/FID) Low Fraction	mq/kq	22 6	17 6	82 1	55-109	24 8*	20	L503819-01	WG52376
a,a,a-Trifluorotoluene(FID)				98 91	59-128				WG52376
TPH (GC/FID) High Fraction	mqq	74 5	82 2	87 5	50-150	9 82	25	L503819-02	WG52350
o-Terphenyl				77 09	50-150				WG52350

Batch number /Run number / Sample number cross reference

WG523768 R1593469 L503822-01 WG523502 R1593649 L503822-01 02 WG523815 R1593493 L503822-01 02

^{* *} Calculations are performed prior to rounding of reported values
* Performance of this Analyte is outside of established criteria
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.