

TITANIUM ENVIRONMENTAL SERVICES, LLC

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May 7, 2014

Mr. Geoffrey Leking
New Mexico Oil Conservation District
Hobbs Division
1625 N. French Drive
Hobbs, NM 88240

HOBBS OCD

MAY 07 2014

RECEIVED

Re: Burk Royalty Energy Division
Release Report- Follow-Up Sampling

Dear Mr. Leking,

On behalf of Burk Royalty Co., Ltd. (Burk), Titanium Environmental Services, LLC (TES) is reporting the results of the requested follow-up sampling of a hydrocarbon release of approximately 3 barrels of produced hydrocarbons on February 4, 2014 on private land at Cruces No. 6. Follow-up sampling was requested to ensure the increased chloride concentration with depth seen at the Cruces 1 sampling location is vertically localized and did not trend deeper into the soil.

Since the initial sampling event on February 18th, approximately 6 inches of soil across the entirety of the release area was excavated and land farmed along with the waste pile. On April 4, 2014, James Van Dyke and Logan Arthur of TES performed follow-up sampling. Grab samples were collected immediately adjacent to the original Cruces 1 sample location to a depth of 24 inches and another discrete location within the extent of the former location of the waste pile, also to a depth of 24 inches. A surface composite sample was collected from within the general release area and from the former location of the waste pile. Six total samples were collected and analyzed at the lab from the April 4th sampling event (Exhibit 1, Analytical Report 649444).

The sample collected on February 18, 2014 at Cruces 1 yielded levels of chlorides under the 1000 ppm limit in New Mexico Administrative Code (NMAC) 19.15.29 and 30; however, the chloride concentration increased with depth. The affected area was previously surface stained with hydrocarbon material in two discrete locations. Photo 3 in the Site Photo Document of Exhibit 4 displays the clean surface soil following the excavation of the surface staining. Upon resampling on April 4th the chloride concentration remained under the NMAC Rule 29 limits and decreased to background level. Samples were collected using a 2-inch diameter steel hand-auger. An impermeable caliche-like layer prohibited further soil penetration by the hand-auger due to the dense rock feature. Analytical Reports 649444 and 643809 are attached (Exhibit 1 and 2, respectively).

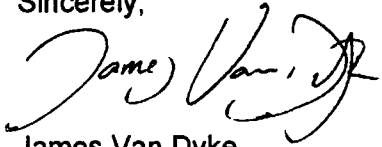
The chloride and hydrocarbon constituent levels are under the NMAC 19.15.29 and 30 for the Cruces No. 6 release site and Burk requests closure of remediation at former spill site.

approved
Geoffrey Leking
Environmental Specialist
NMOC - DIST 1
6/9/14

JUN 10 2014

If you have questions or need further information, please contact me at (903) 234-8443
or jvandyke@titaniumenvironmental.com.

Sincerely,

A handwritten signature in black ink, appearing to read "James Van Dyke". The signature is stylized with a large, sweeping "J" and "V".

James Van Dyke

Enclosures

- Exhibit 1. Analytical Report 649444
- Exhibit 2. Analytical Report 643809
- Exhibit 3. Summary Table 649444
- Exhibit 4. Site Photo Document

cc: Diana Lewis, Burk Royalty Co., Ltd.
Jon Bear, Burk Royalty Co., Ltd.
Daniel Johns, Titanium Environmental Services, LLC

Exhibit 1. Analytical Report 649444



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Report

Report To

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

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649444

Burk-Cruces#6

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Results

Report To

Burk-Cruces#6

Account
TES2-A

Project
649444

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1291098	Cruces 1 0-12					Received: 04/08/2014
Solid	Collected by: Client	Affiliation: Titanium Environment	04/04/2014	10:00:00		
Prepared: 562248		04/08/2014		14:56:09		
EPA 9056	Analyzed: WJY	04/08/2014	23:15:15	QCgroup	562369	
N Chloride (water extractable)	3.06 *	mg/kg	3.12	J	02	
* Dry Weight Basis						
Prepared: 562360		04/08/2014		20:53:00		
SM2540 G, 20th /MOD	Analyzed: MLC	04/08/2014	20:53:00	QCgroup	562360	
N Total Solids for Dry Wt	96.2	%	0.010		01	
1291099	Cruces 1 12-24					Received: 04/08/2014
Solid	Collected by: Client	Affiliation: Titanium Environment	04/04/2014	10:05:00		
Prepared: 562248		04/08/2014		14:56:09		
EPA 9056	Analyzed: WJY	04/08/2014	23:40:21	QCgroup	562369	
N Chloride (water extractable)	5.33 *	mg/kg	3.26		02	
* Dry Weight Basis						
Prepared: 562360		04/08/2014		20:53:00		
SM2540 G, 20th /MOD	Analyzed: MLC	04/08/2014	20:53:00	QCgroup	562360	
N Total Solids for Dry Wt	92.1	%	0.010		01	
1291100	Waste Pile Location 0-6					Received: 04/08/2014
Solid	Collected by: Client	Affiliation: Titanium Environment	04/04/2014	10:10:00		
Prepared: 562319		04/08/2014		18:30:00		
EPA 8260B	Analyzed: AAC	04/08/2014	18:30:00	QCgroup	562319	
N Benzene	<15.5 *	ug/kg	15.5	71-43-2	01	
N Ethylbenzene	<51.5 *	ug/kg	51.5	100-41-4	01	
N Toluene	<51.5 *	ug/kg	51.5	108-88-3	01	
N m- and p-Xylene	<51.5 *	ug/kg	51.5	ARC-mpXyl	01	
N o-Xylene	<51.5 *	ug/kg	51.5	95-47-6	01	
EPA 8260B	Analyzed: CAL	04/09/2014	13:49:27	QCgroup	562319	
N Xylenes, Total	<51.5 *	ug/kg	51.5	1330-20-7	01	
* Dry Weight Basis						
Prepared: 562248		04/08/2014		14:56:09		
EPA 9056	Analyzed: WJY	04/09/2014	00:04:51	QCgroup	562369	
N Chloride (water extractable)	62.0 *	mg/kg	3.09		03	

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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1291100 Waste Pile Location 0-6					Received: 04/08/2014	
Solid	Collected by: Client		Affiliation: Titanium Environment		04/04/2014	10:10:00
* Dry Weight Basis						
Prepared: 562360 04/08/2014 20:53:00						
SM2540 G, 20th /MOD	Analyzed: MLC	04/08/2014	20:53:00	QCgroup	562360	
N Total Solids for Dry Wt	97.0	%	0.010			01
Prepared: 562245 04/08/2014 14:50:41						
TNRCC 1005 3	Analyzed: BRU	04/08/2014	17:21:00	QCgroup	562357	
N C06 to C12 TPH	<41.2 *	mg/kg	41.2			02
N C12 to C28 TPH	<41.2 *	mg/kg	41.2			02
N C28 to C36 TPH	<41.2 *	mg/kg	41.2			02
TNRCC 1005 3	Analyzed: CAL	04/09/2014	13:49:27	QCgroup	562357	
N C06 to C36 TPH	<41.2 *	mg/kg	41.2			02
* Dry Weight Basis						
1291101 Waste Pile Location 12-24					Received: 04/08/2014	
Solid	Collected by: Client		Affiliation: Titanium Environment		04/04/2014	10:17:00
Prepared: 562319 04/08/2014 19:55:00						
EPA 8260B	Analyzed: AAC	04/08/2014	19:55:00	QCgroup	562319	
N Benzene	<22.1 *	ug/kg	22.1	71-43-2		01
N Ethylbenzene	<73.5 *	ug/kg	73.5	100-41-4		01
N Toluene	<73.5 *	ug/kg	73.5	108-88-3		01
N m- and p-Xylene	<73.5 *	ug/kg	73.5	ARC-mpXyl		01
N o-Xylene	<73.5 *	ug/kg	73.5	95-47-6		01
EPA 8260B	Analyzed: CAL	04/09/2014	13:49:27	QCgroup	562319	
N Xylenes, Total	<73.5 *	ug/kg	73.5	1330-20-7		01
* Dry Weight Basis						
Prepared: 562248 04/08/2014 14:56:09						
EPA 9056	Analyzed: WJY	04/09/2014	00:29:29	QCgroup	562369	
N Chloride (water extractable)	10.3 *	mg/kg	4.41			03
* Dry Weight Basis						
Prepared: 562360 04/08/2014 20:53:00						
SM2540 G, 20th /MOD	Analyzed: MLC	04/08/2014	20:53:00	QCgroup	562360	
N Total Solids for Dry Wt	68.0	%	0.010			01
Prepared: 562245 04/08/2014 14:50:41						
TNRCC 1005 3	Analyzed: BRU	04/08/2014	17:30:00	QCgroup	562357	
N C06 to C12 TPH	<58.8 *	mg/kg	58.8			02
N C12 to C28 TPH	<58.8 *	mg/kg	58.8			02
N C28 to C36 TPH	<58.8 *	mg/kg	58.8			02
TNRCC 1005 3	Analyzed: CAL	04/09/2014	13:49:27	QCgroup	562357	
N C06 to C36 TPH	<58.8 *	mg/kg	58.8			02
* Dry Weight Basis						





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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1291102 Surface Comp						Received: 04/08/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		04/04/2014	10:23:00
bottle labelled Surface comp for 2 different projects, not able to tell the difference between the 2 bottles. This sample is wet.						
Prepared: 562502 04/09/2014 18:48:00						
EPA 8260B		Analyzed: AAC	04/09/2014	18:48:00	QCgroup	562502
N Benzene	<24.6 *	ug/kg	24.6		71-43-2	01
N Ethylbenzene	<67.5 *	ug/kg	67.5		100-41-4	01
N Toluene	<67.5 *	ug/kg	67.5		108-88-3	01
N m- and p-Xylene	<67.5 *	ug/kg	67.5		ARC-mpXyl	01
N o-Xylene	<67.5 *	ug/kg	67.5		95-47-6	01
EPA 8260B		Analyzed: CAL	04/10/2014	16:04:44	QCgroup	562502
N Xylenes, Total	<67.5 *	ug/kg	67.5		1330-20-7	01
* Dry Weight Basis						
Prepared: 562443 04/09/2014 16:00:00						
EPA 9056		Analyzed: WJY	04/09/2014	22:10:01	QCgroup	562536
N Chloride (water extractable)	53.0 *	mg/kg	4.05			02
* Dry Weight Basis						
Prepared: 562604 04/10/2014 09:35:00						
SM2540 G, 20th /MOD		Analyzed: MLC	04/10/2014	09:35:00	QCgroup	562604
N Total Solids for Dry Wt	74.1	%	0.010			01
Prepared: 562451 04/09/2014 17:04:40						
TNRCC 1005 3		Analyzed: BRU	04/10/2014	08:56:00	QCgroup	562547
N C06 to C12 TPH	<54.0 *	mg/kg	54.0			03
N C12 to C28 TPH	<54.0 *	mg/kg	54.0			03
N C28 to C36 TPH	<54.0 *	mg/kg	54.0			03
TNRCC 1005 3		Analyzed: CAL	04/10/2014	16:04:44	QCgroup	562547
N C06 to C36 TPH	<54.0 *	mg/kg	54.0			03
* Dry Weight Basis						
1291103 Pile Location Surface Comp						Received: 04/08/2014
Solid	Composite Stop 11:00 4/4/14	Collected by: Client	Affiliation: Titanium Environment			11:00:00
Prepared: 562319 04/08/2014 20:23:00						
EPA 8260B		Analyzed: AAC	04/08/2014	20:23:00	QCgroup	562319
N Benzene	<15.6 *	ug/kg	15.6		71-43-2	01
N Ethylbenzene	37.4 *	ug/kg	52.0	J	100-41-4	01
N Toluene	186 *	ug/kg	52.0		108-88-3	01
N m- and p-Xylene	68.6 *	ug/kg	52.0		ARC-mpXyl	01
N o-Xylene	81.6 *	ug/kg	52.0		95-47-6	01
EPA 8260B		Analyzed: CAL	04/10/2014	14:01:13	QCgroup	562319
N Xylenes, Total	150.2 *	ug/kg	52.0		1330-20-7	01
* Dry Weight Basis						
Prepared: 562248 04/08/2014 14:56:09						
EPA 9056		Analyzed: WJY	04/09/2014	00:54:08	QCgroup	562369
N Chloride (water extractable)	44.0 *	mg/kg	3.12			03

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Parameter	Results	Units	RL	Flags	CAS	Bottle
1291103	Pile Location Surface Comp					Received: 04/08/2014
Solid	Composite Stop 11:00	4/4/14	Collected by: Client	Affiliation: Titanium Environment		11:00:00
* Dry Weight Basis						
Prepared: 562360 04/08/2014 20:53:00						
SM2540 G, 20th /MOD			Analyzed: MLC	04/08/2014	20:53:00	QCgroup 562360
N	Total Solids for Dry Wt	96.2	%	0.010		01
Prepared: 562245 04/08/2014 14:50:41						
TNRCC 1005 3			Analyzed: BRU	04/08/2014	17:39:00	QCgroup 562357
N	C06 to C12 TPH	<41.6 *	mg/kg	41.6		02
N	C12 to C28 TPH	222 *	mg/kg	41.6		02
N	C28 to C36 TPH	<41.6 *	mg/kg	41.6		02
TNRCC 1005 3			Analyzed: CAL	04/10/2014	14:01:13	QCgroup 562357
N	C06 to C36 TPH	222 *	mg/kg	41.6		02
* Dry Weight Basis						

Sample Preparation

1291098	Cruces 1 0-12					Received: 04/08/2014	
		Prepared:	04/08/2014		00:00:00		
			Analyzed: KAT	04/08/2014	00:00:00	QCgroup	
Bottle Temperature on Receipt	<1		degrees			01	
		Prepared:	04/09/2014		13:49:43		
Calculation			Analyzed: CAL	04/09/2014	13:49:43	QCgroup	
As Received to Dry Weight Basis		Calculated					
		Prepared:	04/08/2014		14:56:09		
EPA 9056		562248	Analyzed: NTK	04/08/2014	14:56:09	QCgroup 562248	
N	Water Extract-Ion Chromatography	50/5	grams			01	
1291099	Cruces 1 12-24					Received: 04/08/2014	
		Prepared:	04/08/2014		00:00:00		
			Analyzed: KAT	04/08/2014	00:00:00	QCgroup	
Bottle Temperature on Receipt	<1		degrees			01	
		Prepared:	04/09/2014		13:49:43		
Calculation			Analyzed: CAL	04/09/2014	13:49:43	QCgroup	
As Received to Dry Weight Basis		Calculated					
		Prepared:	04/08/2014		14:56:09		
EPA 9056		562248	Analyzed: NTK	04/08/2014	14:56:09	QCgroup 562248	

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Sample Preparation

1291099	Cruces 1 12-24	Received:	04/08/2014
EPA 9056		Analyzed:	NTK 04/08/2014 14:56:09 QCgroup 562248
N	Water Extract-Ion Chromatography	50/5	grams 01
1291100	Waste Pile Location 0-6	Received:	04/08/2014
	Prepared:	04/08/2014	00:00:00
	Bottle Temperature on Receipt	<1	degrees 01
	Prepared:	04/09/2014	13:49:44
Calculation	As Received to Dry Weight Basis	Calculated	
	Prepared:	04/08/2014	14:56:09
EPA 9056		Analyzed:	NTK 04/08/2014 14:56:09 QCgroup 562248
N	Water Extract-Ion Chromatography	50/5	grams 01
	Prepared:	04/08/2014	15:00:00
SW-846 5035		Analyzed:	AAC 04/08/2014 15:00:00 QCgroup 562359
N	VOC 5035 High Level Extraction	done	grams 01
	Prepared:	04/08/2014	18:30:00
SW-846 8260B		Analyzed:	AAC 04/08/2014 18:30:00 QCgroup 562319
N	BTEX Solid Samples by GC/MS	Entered	01
	Prepared:	04/08/2014	14:50:41
TNRCC 1005 3		Analyzed:	BRU 04/08/2014 17:21:00 QCgroup 562357
N	Texas1005 TPH Expansion - C36	Entered	02
	Prepared:	04/08/2014	14:50:41
TX 1005 3		Analyzed:	NTK 04/08/2014 14:50:41 QCgroup 562245
N	1005 TPH Extraction Solid	10/10	grams 01
1291101	Waste Pile Location 12-24	Received:	04/08/2014
	Prepared:	04/08/2014	00:00:00
	Bottle Temperature on Receipt	<1	degrees 01
	Prepared:	04/09/2014	13:49:44
Calculation	As Received to Dry Weight Basis	Calculated	

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Results

Sample Preparation

1291101 Waste Pile Location 12-24

Received: 04/08/2014

Prepared:		562248	04/08/2014	14:56:09		
EPA 9056			Analyzed: NTK	04/08/2014	14:56:09	QCgroup
N	Water Extract-Ion Chromatography	50/5	grams			562248
						01
Prepared:		562359	04/08/2014	15:00:00		
SW-846 5035			Analyzed: AAC	04/08/2014	15:00:00	QCgroup
N	VOC 5035 High Level Extraction	done	grams			562359
						01
Prepared:		562319	04/08/2014	19:55:00		
SW-846 8260B			Analyzed: AAC	04/08/2014	19:55:00	QCgroup
N	BTEX Solid Samples by GC/MS	Entered				562319
						01
Prepared:		562245	04/08/2014	14:50:41		
TNRCC 1005 3			Analyzed: BRU	04/08/2014	17:30:00	QCgroup
N	Texas1005 TPH Expansion - C36	Entered				562357
						02
Prepared:		562245	04/08/2014	14:50:41		
TX 1005 3			Analyzed: NTK	04/08/2014	14:50:41	QCgroup
N	1005 TPH Extraction Solid	10/10	grams			562245
						01

1291102 Surface Comp

Received: 04/08/2014

Prepared:			04/08/2014	00:00:00		
			Analyzed: KAT	04/08/2014	00:00:00	QCgroup
	Bottle Temperature on Receipt	<1	degrees			01
Prepared:			04/10/2014	16:05:00		
Calculation			Analyzed: CAL	04/10/2014	16:05:00	QCgroup
	As Received to Dry Weight Basis	Calculated				
Prepared:		562443	04/09/2014	16:00:00		
EPA 9056			Analyzed: WJY	04/09/2014	16:00:00	QCgroup
N	Water Extract-Ion Chromatography	50/5	grams			562443
						01
Prepared:		562479	04/09/2014	16:00:00		
SW-846 5035			Analyzed: AAC	04/09/2014	16:00:00	QCgroup
N	VOC 5035 High Level Extraction	done	grams			562479
						01
Prepared:		562502	04/09/2014	18:48:00		
SW-846 8260B			Analyzed: AAC	04/09/2014	18:48:00	QCgroup
N	BTEX Solid Samples by GC/MS	Entered				562502
						01
Prepared:		562451	04/09/2014	17:04:40		
TNRCC 1005 3			Analyzed: BRU	04/10/2014	08:56:00	QCgroup
N	Texas1005 TPH Expansion - C36	Entered				562547
						03

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Sample Preparation

1291102	Surface Comp	Received:	04/08/2014
TX 1005 3	Prepared:	562451	04/09/2014 17:04:40
N	1005 TPH Extraction Solid	10/10	Analyzed: NTK 04/09/2014 17:04:40 QCgroup 562451
			grams 01
1291103	Pile Location Surface Comp	Received:	04/08/2014
	Composite Stop 11:00	4/4/14	
	Prepared:	04/08/2014	00:00:00
	Bottle Temperature on Receipt	<1	Analyzed: KAT 04/08/2014 00:00:00 QCgroup 01
			degrees
Calculation	Prepared:	04/10/2014	14:01:29
As Received to Dry Weight Basis	Calculated	Analyzed: CAL 04/10/2014	14:01:29 QCgroup
EPA 9056	Prepared:	562248	04/08/2014 14:56:09
N	Water Extract-Ion Chromatography	50/5	Analyzed: NTK 04/08/2014 14:56:09 QCgroup 562248
			grams 01
SW-846 5035	Prepared:	562359	04/08/2014 15:00:00
N	VOC 5035 High Level Extraction	done	Analyzed: AAC 04/08/2014 15:00:00 QCgroup 562359
			grams 01
SW-846 8260B	Prepared:	562319	04/08/2014 20:23:00
N	BTEX Solid Samples by GC/MS	Entered	Analyzed: AAC 04/08/2014 20:23:00 QCgroup 562319
			01
TNRCC 1005 3	Prepared:	562245	04/08/2014 14:50:41
N	Texas1005 TPH Expansion - C36	Entered	Analyzed: BRU 04/08/2014 17:39:00 QCgroup 562357
			02
TX 1005 3	Prepared:	562245	04/08/2014 14:50:41
N	1005 TPH Extraction Solid	10/10	Analyzed: NTK 04/08/2014 14:50:41 QCgroup 562245
			grams 01

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Results

Qualifiers:

J - Analyte detected below quantitation limit

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside, Ph.D., President



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Report to

Burk-Cruces#6

Account

TES2-A

Project

649444

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

562360 Solid

SM2540 G, 20th /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt	562360	-0.0002			grams	114334579

Duplicate

Parameter	Sample	Type	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt	1290249	Duplicate	89.1	88.2	%	1.02	20.0
Total Solids for Dry Wt	1290316	Duplicate	86.8	87.5	%	0.803	20.0
Total Solids for Dry Wt	1290317	Duplicate	75.4	74.9	%	0.665	20.0

562604 Solid

SM2540 G, 20th /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt	562604	0.0004			grams	114339806

Duplicate

Parameter	Sample	Type	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt	1290482	Duplicate	88.9	89.1	%	0.225	20.0

562369 Solid

EPA 9056

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride (water extractable)	562248	ND	0.0053	0.300	mg/kg	114334780

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Chloride (water extractable)	9.84	10.0	mg/kg	98.4	90.0 - 110		114334779
Chloride (water extractable)	9.91	10.0	mg/kg	99.1	90.0 - 110		114334792

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Chloride (water extractable)	562248	0.973	1.00	mg/kg	97.3	84.0 - 110	114334781	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride (water extractable)	562248	0.973	1.02	1.00	84.0 - 110	97.3	102	mg/kg	4.72	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride (water extractable)	1291043	11.4		0.966	10.0	80.0 - 120	104		mg/kg		20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride (water extractable)	1291043	11.4	11.4	0.966	10.0	80.0 - 120	104	104	mg/kg	0	20.0

562536 Solid

EPA 9056

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Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>SQL</u>	<u>Units</u>	<u>File</u>
Chloride (water extractable)	562443	ND	0.0053	0.300	mg/kg	114338504

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Chloride (water extractable)	9.93	10.0	mg/kg	99.3	90.0 - 110		114338503
Chloride (water extractable)	9.99	10.0	mg/kg	99.9	90.0 - 110		114338511

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>	<u>Out</u>
Chloride (water extractable)	562443	0.984	1.00	mg/kg	98.4	84.0 - 110	114338505	

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride (water extractable)	562443	0.984	1.03	1.00	84.0 - 110	98.4	103	mg/kg	4.57	20.0

MS

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride (water extractable)	1291769	11.1		0.888	10.0	80.0 - 120	102		mg/kg		20.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride (water extractable)	1291769	11.1	11.0	0.888	10.0	80.0 - 120	102	101	mg/kg	0.985	20.0

562319 Solid

SW-846 8260B

BFB

<u>Parameter</u>	<u>Sample</u>	<u>RefMass</u>	<u>Reading</u>	<u>%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
BFB Mass 173	562319	174	0	0.0	0 - 2.00		114333973
BFB Mass 174	562319	95.0	1939	81.1	50.0 - 100		114333973
BFB Mass 175	562319	174	135	7.0	5.00 - 9.00		114333973
BFB Mass 176	562319	174	1869	96.4	95.0 - 101		114333973
BFB Mass 177	562319	176	115	6.2	5.00 - 9.00		114333973
BFB Mass 50	562319	95.0	411	17.2	15.0 - 40.0		114333973
BFB Mass 75	562319	95.0	1074	44.9	30.0 - 60.0		114333973
BFB Mass 95	562319	95.0	2391	100.0	100 - 100		114333973
BFB Mass 96	562319	95.0	153	6.4	5.00 - 9.00		114333973

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>SQL</u>	<u>Units</u>	<u>File</u>
Benzene	562319	ND	0.300	1.00	ug/kg	114333977
Ethylbenzene	562319	ND	0.127	1.00	ug/kg	114333977
m- and p-Xylene	562319	ND	0.405	1.00	ug/kg	114333977
o-Xylene	562319	ND	0.157	1.00	ug/kg	114333977
Toluene	562319	ND	0.182	1.00	ug/kg	114333977

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Benzene	19.8	20.0	ug/kg	99.0	70.0 - 130		114333974
Ethylbenzene	19.8	20.0	ug/kg	99.0	70.0 - 130		114333974
m- and p-Xylene	39.0	40.0	ug/kg	97.5	70.0 - 130		114333974
o-Xylene	19.9	20.0	ug/kg	99.5	70.0 - 130		114333974
Toluene	19.9	20.0	ug/kg	99.5	70.0 - 130		114333974

IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
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IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	562319	CCV	24240	24240	12120	36360		114333974	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	LCS	24160	24240	12120	36360		114333975	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	LCS Dup	23940	24240	12120	36360		114333976	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	Blank	22460	24240	12120	36360		114333977	562319
ChlorobenzeneD5 (ISTD)	562319	CCV	58720	58720	29360	88080		114333974	562319
ChlorobenzeneD5 (ISTD)	562319	LCS	58430	58720	29360	88080		114333975	562319
ChlorobenzeneD5 (ISTD)	562319	LCS Dup	57580	58720	29360	88080		114333976	562319
ChlorobenzeneD5 (ISTD)	562319	Blank	57150	58720	29360	88080		114333977	562319
1,4-DichlorobenzeneD4 (ISTD)	1291100	UNKNOWN	26670	24240	12120	36360		114333978	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291100	MS	27850	24240	12120	36360		114333979	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291100	MSD	27440	24240	12120	36360		114333980	1291100
ChlorobenzeneD5 (ISTD)	1291100	UNKNOWN	61810	58720	29360	88080		114333978	1291100
ChlorobenzeneD5 (ISTD)	1291100	MS	61580	58720	29360	88080		114333979	1291100
ChlorobenzeneD5 (ISTD)	1291100	MSD	62300	58720	29360	88080		114333980	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291101	UNKNOWN	26250	24240	12120	36360		114333981	1291101
ChlorobenzeneD5 (ISTD)	1291101	UNKNOWN	62210	58720	29360	88080		114333981	1291101
1,4-DichlorobenzeneD4 (ISTD)	1291103	UNKNOWN	27100	24240	12120	36360		114333982	1291103
ChlorobenzeneD5 (ISTD)	1291103	UNKNOWN	62680	58720	29360	88080		114333982	1291103

IS RetTime

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	562319	CCV	14.66	14.66	14.60	14.72		114333974	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	LCS	14.66	14.66	14.60	14.72		114333975	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	LCS Dup	14.66	14.66	14.60	14.72		114333976	562319
1,4-DichlorobenzeneD4 (ISTD)	562319	Blank	14.66	14.66	14.60	14.72		114333977	562319
ChlorobenzeneD5 (ISTD)	562319	CCV	10.96	10.96	10.90	11.02		114333974	562319
ChlorobenzeneD5 (ISTD)	562319	LCS	10.96	10.96	10.90	11.02		114333975	562319
ChlorobenzeneD5 (ISTD)	562319	LCS Dup	10.96	10.96	10.90	11.02		114333976	562319
ChlorobenzeneD5 (ISTD)	562319	Blank	10.96	10.96	10.90	11.02		114333977	562319
1,4-DichlorobenzeneD4 (ISTD)	1291100	UNKNOWN	14.65	14.66	14.60	14.72		114333978	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291100	MS	14.65	14.66	14.60	14.72		114333979	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291100	MSD	14.65	14.66	14.60	14.72		114333980	1291100
ChlorobenzeneD5 (ISTD)	1291100	UNKNOWN	10.96	10.96	10.90	11.02		114333978	1291100
ChlorobenzeneD5 (ISTD)	1291100	MS	10.95	10.96	10.90	11.02		114333979	1291100
ChlorobenzeneD5 (ISTD)	1291100	MSD	10.95	10.96	10.90	11.02		114333980	1291100
1,4-DichlorobenzeneD4 (ISTD)	1291101	UNKNOWN	14.65	14.66	14.60	14.72		114333981	1291101
ChlorobenzeneD5 (ISTD)	1291101	UNKNOWN	10.95	10.96	10.90	11.02		114333981	1291101
1,4-DichlorobenzeneD4 (ISTD)	1291103	UNKNOWN	14.65	14.66	14.60	14.72		114333982	1291103
ChlorobenzeneD5 (ISTD)	1291103	UNKNOWN	10.95	10.96	10.90	11.02		114333982	1291103

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LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>	<u>Out</u>
Benzene	562319	17.5	20.0	ug/kg	87.7	64.9 - 132	114333975	
Ethylbenzene	562319	17.5	20.0	ug/kg	87.5	71.2 - 131	114333975	
m- and p-Xylene	562319	37.0	40.0	ug/kg	92.5	74.1 - 135	114333975	
o-Xylene	562319	19.1	20.0	ug/kg	95.5	81.0 - 136	114333975	
Toluene	562319	17.5	20.0	ug/kg	87.4	72.7 - 125	114333975	

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Benzene	562319	17.5	17.5	20.0	64.9 - 132	87.7	87.6	ug/kg	0.114	20.0
Ethylbenzene	562319	17.5	17.1	20.0	71.2 - 131	87.5	85.7	ug/kg	2.08	20.0
m- and p-Xylene	562319	37.0	36.6	40.0	74.1 - 135	92.5	91.5	ug/kg	1.09	20.0
o-Xylene	562319	19.1	19.1	20.0	81.0 - 136	95.5	95.6	ug/kg	0.105	20.0
Toluene	562319	17.5	17.5	20.0	72.7 - 125	87.4	87.6	ug/kg	0.229	20.0

MS

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Benzene	1291100	826	0	ND	1000	67.1 - 130	82.6		ug/kg		30.0
Ethylbenzene	1291100	832	0	ND	1000	67.6 - 131	83.2		ug/kg		30.0
m- and p-Xylene	1291100	1790	0	ND	2000	59.5 - 138	89.5		ug/kg		30.0
o-Xylene	1291100	952	0	ND	1000	34.0 - 173	95.2		ug/kg		30.0
Toluene	1291100	850	0	ND	1000	30.5 - 172	85.0		ug/kg		30.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Benzene	1291100	826	813	ND	1000	67.1 - 130	82.6	81.3	ug/kg	1.59	30.0
Ethylbenzene	1291100	832	830	ND	1000	67.6 - 131	83.2	83.0	ug/kg	0.241	30.0
m- and p-Xylene	1291100	1790	1740	ND	2000	59.5 - 138	89.5	87.1	ug/kg	2.72	30.0
o-Xylene	1291100	952	930	ND	1000	34.0 - 173	95.2	93.0	ug/kg	2.34	30.0
Toluene	1291100	850	826	ND	1000	30.5 - 172	85.0	82.6	ug/kg	2.86	30.0

Surrogate

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
1,2-DCA-d4 (SURR)	562319	CCV	18.9	20.0	ug/kg	94.5	55.3 - 145	114333974
1,2-DCA-d4 (SURR)	562319	LCS	19.2	20.0	ug/kg	96.0	55.3 - 145	114333975
1,2-DCA-d4 (SURR)	562319	LCS Dup	19.2	20.0	ug/kg	96.0	55.3 - 145	114333976
1,2-DCA-d4 (SURR)	562319	Blank	19.7	20.0	ug/kg	98.5	55.3 - 145	114333977
Bromofluorobenzene (SURR)	562319	CCV	20.0	20.0	ug/kg	100	64.7 - 149	114333974
Bromofluorobenzene (SURR)	562319	LCS	19.9	20.0	ug/kg	99.5	64.7 - 149	114333975
Bromofluorobenzene (SURR)	562319	LCS Dup	19.5	20.0	ug/kg	97.5	64.7 - 149	114333976
Bromofluorobenzene (SURR)	562319	Blank	20.2	20.0	ug/kg	101	64.7 - 149	114333977
Dibromofluoromethane (SURR)	562319	CCV	19.0	20.0	ug/kg	95.0	61.0 - 142	114333974
Dibromofluoromethane (SURR)	562319	LCS	19.6	20.0	ug/kg	98.0	61.0 - 142	114333975
Dibromofluoromethane (SURR)	562319	LCS Dup	19.3	20.0	ug/kg	96.5	61.0 - 142	114333976
Dibromofluoromethane (SURR)	562319	Blank	19.0	20.0	ug/kg	95.0	61.0 - 142	114333977
TolueneD8 (SURR)	562319	CCV	20.4	20.0	ug/kg	102	76.6 - 131	114333974
TolueneD8 (SURR)	562319	LCS	20.2	20.0	ug/kg	101	76.6 - 131	114333975
TolueneD8 (SURR)	562319	LCS Dup	20.3	20.0	ug/kg	102	76.6 - 131	114333976





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Surrogate

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
TolueneD8 (SURRE)	562319	Blank	19.7	20.0	ug/kg	98.5	76.6 - 131	114333977
1,2-DCA-d4 (SURRE)	1291100	UNKNOWN	14.7	20.0	ug/kg	73.5	55.3 - 145	114333978
1,2-DCA-d4 (SURRE)	1291100	MS	15.4	20.0	ug/kg	77.0	55.3 - 145	114333979
1,2-DCA-d4 (SURRE)	1291100	MSD	15.2	20.0	ug/kg	76.0	55.3 - 145	114333980
Bromofluorobenzene (SURRE)	1291100	UNKNOWN	13.2	20.0	ug/kg	66.0	64.7 - 149	114333978
Bromofluorobenzene (SURRE)	1291100	MS	13.5	20.0	ug/kg	67.5	64.7 - 149	114333979
Bromofluorobenzene (SURRE)	1291100	MSD	13.6	20.0	ug/kg	68.0	64.7 - 149	114333980
Dibromofluoromethane (SURRE)	1291100	UNKNOWN	14.9	20.0	ug/kg	74.5	61.0 - 142	114333978
Dibromofluoromethane (SURRE)	1291100	MS	15.4	20.0	ug/kg	77.0	61.0 - 142	114333979
Dibromofluoromethane (SURRE)	1291100	MSD	14.6	20.0	ug/kg	73.0	61.0 - 142	114333980
TolueneD8 (SURRE)	1291100	UNKNOWN	14.1	20.0	ug/kg	70.5 *	76.6 - 131	114333978
TolueneD8 (SURRE)	1291100	MS	14.1	20.0	ug/kg	70.5 *	76.6 - 131	114333979
TolueneD8 (SURRE)	1291100	MSD	13.9	20.0	ug/kg	69.5 *	76.6 - 131	114333980
1,2-DCA-d4 (SURRE)	1291101	UNKNOWN	11.9	20.0	ug/kg	59.5	55.3 - 145	114333981
Bromofluorobenzene (SURRE)	1291101	UNKNOWN	10.9	20.0	ug/kg	54.5 *	64.7 - 149	114333981
Dibromofluoromethane (SURRE)	1291101	UNKNOWN	11.7	20.0	ug/kg	58.5 *	61.0 - 142	114333981
TolueneD8 (SURRE)	1291101	UNKNOWN	11.2	20.0	ug/kg	56.0 *	76.6 - 131	114333981
1,2-DCA-d4 (SURRE)	1291103	UNKNOWN	15.0	20.0	ug/kg	75.0	55.3 - 145	114333982
Bromofluorobenzene (SURRE)	1291103	UNKNOWN	13.1	20.0	ug/kg	65.5	64.7 - 149	114333982
Dibromofluoromethane (SURRE)	1291103	UNKNOWN	14.7	20.0	ug/kg	73.5	61.0 - 142	114333982
TolueneD8 (SURRE)	1291103	UNKNOWN	13.5	20.0	ug/kg	67.5 *	76.6 - 131	114333982

562357 Solid

TNRCC 1005 3

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MDL</u>	<u>Units</u>	<u>File</u>
C06 to C12 TPH	562159	ND	16.6	40.0	mg/kg	114334524
C12 to C28 TPH	562159	ND	19.3	40.0	mg/kg	114334524
C28 to C36 TPH	562159	ND	16.6	40.0	mg/kg	114334524
C06 to C12 TPH	562245	ND	16.6	40.0	mg/kg	114334512
C12 to C28 TPH	562245	ND	19.3	40.0	mg/kg	114334512
C28 to C36 TPH	562245	ND	16.6	40.0	mg/kg	114334512

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
C06 to C12 TPH	408	500	mg/kg	81.6	75.0 - 125		114334511
C06 to C12 TPH	590	500	mg/kg	118	75.0 - 125		114334523
C06 to C12 TPH	581	500	mg/kg	116	75.0 - 125		114334534
C06 to C12 TPH	592	500	mg/kg	118	75.0 - 125		114334536
C06 to C12 TPH	469	500	mg/kg	93.8	75.0 - 125		114334537
C06 to C12 TPH	445	500	mg/kg	89.0	75.0 - 125		114334539
C12 to C28 TPH	505	500	mg/kg	101	75.0 - 125		114334511
C12 to C28 TPH	603	500	mg/kg	121	75.0 - 125		114334523
C12 to C28 TPH	591	500	mg/kg	118	75.0 - 125		114334534
C12 to C28 TPH	592	500	mg/kg	118	75.0 - 125		114334536

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CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
C12 to C28 TPH	471	500	mg/kg	94.2	75.0 - 125		114334537
C12 to C28 TPH	460	500	mg/kg	92.0	75.0 - 125		114334539

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>	<u>Out</u>
C06 to C12 TPH	562159	505	500	mg/kg	101	75.0 - 125	114334525	
C12 to C28 TPH	562159	543	500	mg/kg	109	75.0 - 125	114334525	
C06 to C12 TPH	562245	434	500	mg/kg	86.8	75.0 - 125	114334513	
C12 to C28 TPH	562245	447	500	mg/kg	89.3	75.0 - 125	114334513	

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
C06 to C12 TPH	562245	434	429	500	75.0 - 125	86.8	85.8	mg/kg	1.16	20.0
C12 to C28 TPH	562245	447	464	500	75.0 - 125	89.3	92.8	mg/kg	3.84	20.0

MS

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
C06 to C12 TPH	1291089	355	0	ND	500	75.0 - 125	71.0 *		mg/kg		20.0
C12 to C28 TPH	1291089	1260	0	660	500	75.0 - 125	120		mg/kg		20.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
C06 to C12 TPH	1291089	355	398	ND	500	75.0 - 125	71.0 *	79.6	mg/kg	11.4	20.0
C12 to C28 TPH	1291089	1260	1380	660	500	75.0 - 125	120	144 *	mg/kg	18.2	20.0

Surrogate

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
1-Chlorooctane (Surrogate)	133058	CCV	203	250	mg/kg	81.2	50.0 - 150	114334511
1-Chlorooctane (Surrogate)	133058	CCV	272	250	mg/kg	109	50.0 - 150	114334523
1-Chlorooctane (Surrogate)	133058	CCV	269	250	mg/kg	108	50.0 - 150	114334534
1-Chlorooctane (Surrogate)	133058	CCV	275	250	mg/kg	110	50.0 - 150	114334536
1-Chlorooctane (Surrogate)	133058	CCV	237	250	mg/kg	94.8	50.0 - 150	114334537
1-Chlorooctane (Surrogate)	133058	CCV	226	250	mg/kg	90.4	50.0 - 150	114334539
oTerphenyl (Surrogate)	133058	CCV	246	250	mg/kg	98.4	50.0 - 150	114334511
oTerphenyl (Surrogate)	133058	CCV	268	250	mg/kg	107	50.0 - 150	114334523
oTerphenyl (Surrogate)	133058	CCV	264	250	mg/kg	106	50.0 - 150	114334534
oTerphenyl (Surrogate)	133058	CCV	261	250	mg/kg	104	50.0 - 150	114334536
oTerphenyl (Surrogate)	133058	CCV	237	250	mg/kg	94.8	50.0 - 150	114334537
oTerphenyl (Surrogate)	133058	CCV	234	250	mg/kg	93.6	50.0 - 150	114334539
1-Chlorooctane (Surrogate)	562159	Blank	220	250	mg/kg	88.0	50.0 - 150	114334524
1-Chlorooctane (Surrogate)	562159	LCS	247	250	mg/kg	98.8	50.0 - 150	114334525
1-Chlorooctane (Surrogate)	562159	LCS Dup	234	250	mg/kg	93.6	50.0 - 150	114334526
oTerphenyl (Surrogate)	562159	Blank	211	250	mg/kg	84.4	50.0 - 150	114334524
oTerphenyl (Surrogate)	562159	LCS	227	250	mg/kg	90.8	50.0 - 150	114334525
oTerphenyl (Surrogate)	562159	LCS Dup	213	250	mg/kg	85.2	50.0 - 150	114334526
1-Chlorooctane (Surrogate)	562245	Blank	196	250	mg/kg	78.4	50.0 - 150	114334512
1-Chlorooctane (Surrogate)	562245	LCS	217	250	mg/kg	86.8	50.0 - 150	114334513
1-Chlorooctane (Surrogate)	562245	LCS Dup	216	250	mg/kg	86.4	50.0 - 150	114334514
oTerphenyl (Surrogate)	562245	Blank	176	250	mg/kg	70.4	50.0 - 150	114334512
oTerphenyl (Surrogate)	562245	LCS	188	250	mg/kg	75.2	50.0 - 150	114334513
oTerphenyl (Surrogate)	562245	LCS Dup	196	250	mg/kg	78.4	50.0 - 150	114334514
1-Chlorooctane (Surrogate)	1291089	MS	206	250	mg/kg	82.4	50.0 - 150	114334516
1-Chlorooctane (Surrogate)	1291089	MSD	228	250	mg/kg	91.2	50.0 - 150	114334517

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Surrogate

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
oTerphenyl (Surrogate)	1291089	MS	208	250	mg/kg	83.2	50.0 - 150	114334516
oTerphenyl (Surrogate)	1291089	MSD	241	250	mg/kg	96.4	50.0 - 150	114334517
1-Chlorooctane (Surrogate)	1291100	UNKNOWN191	250	250	mg/kg	76.4	50.0 - 150	114334518
oTerphenyl (Surrogate)	1291100	UNKNOWN182	250	250	mg/kg	72.8	50.0 - 150	114334518
1-Chlorooctane (Surrogate)	1291101	UNKNOWN193	250	250	mg/kg	77.2	50.0 - 150	114334519
oTerphenyl (Surrogate)	1291101	UNKNOWN182	250	250	mg/kg	72.8	50.0 - 150	114334519
1-Chlorooctane (Surrogate)	1291103	UNKNOWN203	250	250	mg/kg	81.2	50.0 - 150	114334520
oTerphenyl (Surrogate)	1291103	UNKNOWN213	250	250	mg/kg	85.2	50.0 - 150	114334520

562502 Solid

SW-846 8260B

BFB

<u>Parameter</u>	<u>Sample</u>	<u>RefMass</u>	<u>Reading</u>	<u>%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
BFB Mass 173	562502	174	3	0.2	0 - 2.00		114338016
BFB Mass 174	562502	95.0	1347	60.5	50.0 - 100		114338016
BFB Mass 175	562502	174	95	7.1	5.00 - 9.00		114338016
BFB Mass 176	562502	174	1306	97.0	95.0 - 101		114338016
BFB Mass 177	562502	176	85	6.5	5.00 - 9.00		114338016
BFB Mass 50	562502	95.0	498	22.4	15.0 - 40.0		114338016
BFB Mass 75	562502	95.0	1134	50.9	30.0 - 60.0		114338016
BFB Mass 95	562502	95.0	2226	100.0	100 - 100		114338016
BFB Mass 96	562502	95.0	160	7.2	5.00 - 9.00		114338016

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MDL</u>	<u>Units</u>	<u>File</u>
Benzene	562502	ND	0.363	1.00	ug/kg	114338020
Ethylbenzene	562502	ND	0.223	1.00	ug/kg	114338020
m- and p-Xylene	562502	ND	0.479	1.00	ug/kg	114338020
o-Xylene	562502	ND	0.154	1.00	ug/kg	114338020
Toluene	562502	ND	0.275	1.00	ug/kg	114338020

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Benzene	18.8	20.0	ug/kg	94.0	70.0 - 130		114338017
Ethylbenzene	21.6	20.0	ug/kg	108	70.0 - 130		114338017
m- and p-Xylene	40.9	40.0	ug/kg	102	70.0 - 130		114338017
o-Xylene	21.0	20.0	ug/kg	105	70.0 - 130		114338017
Toluene	20.3	20.0	ug/kg	102	70.0 - 130		114338017

IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	562502	CCV	17620	17620	8808	26420		114338017	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	LCS	18000	17620	8808	26420		114338018	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	LCS Dup	17850	17620	8808	26420		114338019	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	Blank	17580	17620	8808	26420		114338020	562502
ChlorobenzeneD5 (ISTD)	562502	CCV	46970	46970	23480	70450		114338017	562502
ChlorobenzeneD5 (ISTD)	562502	LCS	48600	46970	23480	70450		114338018	562502
ChlorobenzeneD5 (ISTD)	562502	LCS Dup	48620	46970	23480	70450		114338019	562502
ChlorobenzeneD5 (ISTD)	562502	Blank	46420	46970	23480	70450		114338020	562502

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IS Areas

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	1291102	UNKNOWN	7960	17620	8808	26420		114338024	1291102
ChlorobenzeneD5 (ISTD)	1291102	UNKNOWN	45900	46970	23480	70450		114338024	1291102
1,4-DichlorobenzeneD4 (ISTD)	1291463	MS	17920	17620	8808	26420		114338022	1291463
1,4-DichlorobenzeneD4 (ISTD)	1291463	MSD	18280	17620	8808	26420		114338023	1291463
ChlorobenzeneD5 (ISTD)	1291463	MS	48110	46970	23480	70450		114338022	1291463
ChlorobenzeneD5 (ISTD)	1291463	MSD	47210	46970	23480	70450		114338023	1291463

IS RetTime

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>CCVISM</u>	<u>Low</u>	<u>High</u>	<u>Out</u>	<u>File</u>	<u>PrepSet</u>
1,4-DichlorobenzeneD4 (ISTD)	562502	CCV	13.89	13.89	13.83	13.95		114338017	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	LCS	13.89	13.89	13.83	13.95		114338018	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	LCS Dup	13.90	13.89	13.83	13.95		114338019	562502
1,4-DichlorobenzeneD4 (ISTD)	562502	Blank	13.90	13.89	13.83	13.95		114338020	562502
ChlorobenzeneD5 (ISTD)	562502	CCV	10.25	10.25	10.19	10.31		114338017	562502
ChlorobenzeneD5 (ISTD)	562502	LCS	10.24	10.25	10.19	10.31		114338018	562502
ChlorobenzeneD5 (ISTD)	562502	LCS Dup	10.24	10.25	10.19	10.31		114338019	562502
ChlorobenzeneD5 (ISTD)	562502	Blank	10.25	10.25	10.19	10.31		114338020	562502
1,4-DichlorobenzeneD4 (ISTD)	1291102	UNKNOWN	13.92	13.89	13.83	13.95		114338024	1291102
ChlorobenzeneD5 (ISTD)	1291102	UNKNOWN	10.26	10.25	10.19	10.31		114338024	1291102
1,4-DichlorobenzeneD4 (ISTD)	1291463	MS	13.90	13.89	13.83	13.95		114338022	1291463
1,4-DichlorobenzeneD4 (ISTD)	1291463	MSD	13.90	13.89	13.83	13.95		114338023	1291463
ChlorobenzeneD5 (ISTD)	1291463	MS	10.25	10.25	10.19	10.31		114338022	1291463
ChlorobenzeneD5 (ISTD)	1291463	MSD	10.25	10.25	10.19	10.31		114338023	1291463

LCS

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits</u>	<u>File</u>	<u>Out</u>
Benzene	562502	17.9	20.0	ug/kg	89.4	64.9 - 132	114338018	
Ethylbenzene	562502	20.6	20.0	ug/kg	103	71.2 - 131	114338018	
m- and p-Xylene	562502	40.6	40.0	ug/kg	102	74.1 - 135	114338018	
o-Xylene	562502	22.0	20.0	ug/kg	110	81.0 - 136	114338018	
Toluene	562502	19.8	20.0	ug/kg	98.8	72.7 - 125	114338018	

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Benzene	562502	17.9	17.6	20.0	64.9 - 132	89.4	88.0	ug/kg	1.58	20.0
Ethylbenzene	562502	20.6	19.8	20.0	71.2 - 131	103	99.2	ug/kg	3.76	20.0
m- and p-Xylene	562502	40.6	40.4	40.0	74.1 - 135	102	101	ug/kg	0.985	20.0
o-Xylene	562502	22.0	21.6	20.0	81.0 - 136	110	108	ug/kg	1.83	20.0
Toluene	562502	19.8	19.8	20.0	72.7 - 125	98.8	98.8	ug/kg	0	20.0

MS

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Benzene	1291463	18.2	0	ND	20.0	67.1 - 130	91.0		ug/kg		30.0
Ethylbenzene	1291463	19.9	0	ND	20.0	67.6 - 131	99.5		ug/kg		30.0
m- and p-Xylene	1291463	40.0	0	ND	40.0	59.5 - 138	100		ug/kg		30.0
o-Xylene	1291463	21.6	0	ND	20.0	34.0 - 173	108		ug/kg		30.0

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Toluene	1291463	19.8	0	ND	20.0	30.5 - 172	99.0		ug/kg		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Benzene	1291463	18.2	18.3	ND	20.0	67.1 - 130	91.0	91.4	ug/kg	0.439	30.0
Ethylbenzene	1291463	19.9	19.8	ND	20.0	67.6 - 131	99.5	99.1	ug/kg	0.403	30.0
m- and p-Xylene	1291463	40.0	40.7	ND	40.0	59.5 - 138	100	102	ug/kg	1.98	30.0
o-Xylene	1291463	21.6	21.9	ND	20.0	34.0 - 173	108	109	ug/kg	0.922	30.0
Toluene	1291463	19.8	19.7	ND	20.0	30.5 - 172	99.0	98.4	ug/kg	0.608	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	562502	CCV	16.6	20.0	ug/kg	83.0	55.3 - 145	114338017
1,2-DCA-d4 (SURR)	562502	LCS	16.6	20.0	ug/kg	83.0	55.3 - 145	114338018
1,2-DCA-d4 (SURR)	562502	LCS Dup	16.0	20.0	ug/kg	80.0	55.3 - 145	114338019
1,2-DCA-d4 (SURR)	562502	Blank	17.5	20.0	ug/kg	87.5	55.3 - 145	114338020
Bromofluorobenzene (SURR)	562502	CCV	22.1	20.0	ug/kg	110	64.7 - 149	114338017
Bromofluorobenzene (SURR)	562502	LCS	22.3	20.0	ug/kg	112	64.7 - 149	114338018
Bromofluorobenzene (SURR)	562502	LCS Dup	22.0	20.0	ug/kg	110	64.7 - 149	114338019
Bromofluorobenzene (SURR)	562502	Blank	21.3	20.0	ug/kg	106	64.7 - 149	114338020
Dibromofluoromethane (SURR)	562502	CCV	19.7	20.0	ug/kg	98.5	61.0 - 142	114338017
Dibromofluoromethane (SURR)	562502	LCS	18.8	20.0	ug/kg	94.0	61.0 - 142	114338018
Dibromofluoromethane (SURR)	562502	LCS Dup	19.0	20.0	ug/kg	95.0	61.0 - 142	114338019
Dibromofluoromethane (SURR)	562502	Blank	20.0	20.0	ug/kg	100	61.0 - 142	114338020
TolueneD8 (SURR)	562502	CCV	20.2	20.0	ug/kg	101	76.6 - 131	114338017
TolueneD8 (SURR)	562502	LCS	20.2	20.0	ug/kg	101	76.6 - 131	114338018
TolueneD8 (SURR)	562502	LCS Dup	20.5	20.0	ug/kg	102	76.6 - 131	114338019
TolueneD8 (SURR)	562502	Blank	20.6	20.0	ug/kg	103	76.6 - 131	114338020
1,2-DCA-d4 (SURR)	1291102	UNKNOWN	13.7	20.0	ug/kg	68.5	55.3 - 145	114338024
Bromofluorobenzene (SURR)	1291102	UNKNOWN	14.8	20.0	ug/kg	74.0	64.7 - 149	114338024
Dibromofluoromethane (SURR)	1291102	UNKNOWN	15.8	20.0	ug/kg	79.0	61.0 - 142	114338024
TolueneD8 (SURR)	1291102	UNKNOWN	16.8	20.0	ug/kg	84.0	76.6 - 131	114338024
1,2-DCA-d4 (SURR)	1291463	MS	16.1	20.0	ug/kg	80.5	55.3 - 145	114338022
1,2-DCA-d4 (SURR)	1291463	MSD	16.8	20.0	ug/kg	84.0	55.3 - 145	114338023
Bromofluorobenzene (SURR)	1291463	MS	21.5	20.0	ug/kg	108	64.7 - 149	114338022
Bromofluorobenzene (SURR)	1291463	MSD	21.1	20.0	ug/kg	106	64.7 - 149	114338023
Dibromofluoromethane (SURR)	1291463	MS	19.7	20.0	ug/kg	98.5	61.0 - 142	114338022
Dibromofluoromethane (SURR)	1291463	MSD	19.7	20.0	ug/kg	98.5	61.0 - 142	114338023
TolueneD8 (SURR)	1291463	MS	20.5	20.0	ug/kg	102	76.6 - 131	114338022
TolueneD8 (SURR)	1291463	MSD	20.8	20.0	ug/kg	104	76.6 - 131	114338023

562547 Solid

TNRCC 10053

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Quality Control

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
C06 to C12 TPH	462451	ND	16.6	40.0	mg/kg	114338733
C12 to C28 TPH	462451	ND	19.3	40.0	mg/kg	114338733
C28 to C36 TPH	462451	ND	16.6	40.0	mg/kg	114338733

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
C06 to C12 TPH	465	500	mg/kg	93.0	75.0 - 125		114338732
C06 to C12 TPH	561	500	mg/kg	112	75.0 - 125		114338740
C12 to C28 TPH	445	500	mg/kg	89.0	75.0 - 125		114338732
C12 to C28 TPH	546	500	mg/kg	109	75.0 - 125		114338740

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
C06 to C12 TPH	462451	443	500	mg/kg	88.6	75.0 - 125	114338734	
C12 to C28 TPH	462451	496	500	mg/kg	99.3	75.0 - 125	114338734	

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
C06 to C12 TPH	1291096	403	0	39.9	500	75.0 - 125	72.6 *		mg/kg		20.0
C12 to C28 TPH	1291096	2310	0	1630	500	75.0 - 125	136 *		mg/kg		20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
C06 to C12 TPH	1291096	403	426	39.9	500	75.0 - 125	72.6 *	77.2	mg/kg	6.14	20.0
C12 to C28 TPH	1291096	2310	2630	1630	500	75.0 - 125	136 *	200 *	mg/kg	38.1 *	20.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1-Chlorooctane (Surrogate)	133058	CCV	218	250	mg/kg	87.2	50.0 - 150	114338732
1-Chlorooctane (Surrogate)	133058	CCV	250	250	mg/kg	100	50.0 - 150	114338740
oTerphenyl (Surrogate)	133058	CCV	200	250	mg/kg	80.0	50.0 - 150	114338732
oTerphenyl (Surrogate)	133058	CCV	247	250	mg/kg	98.8	50.0 - 150	114338740
1-Chlorooctane (Surrogate)	462451	Blank	179	250	mg/kg	71.6	50.0 - 150	114338733
1-Chlorooctane (Surrogate)	462451	LCS	219	250	mg/kg	87.6	50.0 - 150	114338734
1-Chlorooctane (Surrogate)	462451	LCS Dup	227	250	mg/kg	90.8	50.0 - 150	114338735
oTerphenyl (Surrogate)	462451	Blank	156	250	mg/kg	62.4	50.0 - 150	114338733
oTerphenyl (Surrogate)	462451	LCS	197	250	mg/kg	78.8	50.0 - 150	114338734
oTerphenyl (Surrogate)	462451	LCS Dup	203	250	mg/kg	81.2	50.0 - 150	114338735
1-Chlorooctane (Surrogate)	1291096	MS	201	250	mg/kg	80.4	50.0 - 150	114338738
1-Chlorooctane (Surrogate)	1291096	MSD	211	250	mg/kg	84.4	50.0 - 150	114338739
oTerphenyl (Surrogate)	1291096	MS	228	250	mg/kg	91.2	50.0 - 150	114338738
oTerphenyl (Surrogate)	1291096	MSD	254	250	mg/kg	102	50.0 - 150	114338739
1-Chlorooctane (Surrogate)	1291102	UNKNOWN	181	250	mg/kg	72.4	50.0 - 150	114338736
oTerphenyl (Surrogate)	1291102	UNKNOWN	175	250	mg/kg	70.0	50.0 - 150	114338736

RPD is Relative Percent Difference: $\frac{\text{abs}(r1-r2)}{\text{mean}(r1,r2)} * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank; LCS - Laboratory Control Sample; CCV - Continuing Calibration Verification; MS - Matrix Spike; BFB - GC/MS Tuning Compound





Shipping:
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Kilgore, TX 75662

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www.ana-lab.com

Mailing:
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e-mail: corp@ana-lab.com



Panhandle
806.355.3556

Oklahoma
405.590.2533

North Texas
972.837.9412

Central Texas
512.821.0045

Rio Grand Valley
956.831.6437

Louisiana
318.219.9300

Gulf Coast
281.333.9414

Report To L. Reutenwald		Project Name/Location BURK - CRUCES #6		Analysis Requested			
Company Name Titanium Environmental Services LLC		Billing Address (if different)		BTEX TPH Chlorides			
Address 311 E Cotton Street							
City Longview	State TX	Zip 75601					
Phone 903-234-8443	Fax						
Sampler Signature <i>James Van Dyke</i>		Printed Name James Van Dyke	Affiliation TES2	PO Number			
Lab Number Do Not Use	Field Identification	Date	Time	Matrix	# of Containers	Notes	
1291098	CRUCES 0-12	04.04.14	1000	S	1		
099	CRUCES 12-24	04.04.14	1005	S	1		
100	Waste Pile Location 0-6	04.04.14	1010	S	1		
101	Waste Pile Location 12-24	04.04.14	1017	S	1		
102	Surface Camp	04.04.14	1023	S	1		
103	Waste Pile Surface Camp	04.04.14	1100	S	1		
	005057 ☐ CF	<100					
	005514 ☐ CF P.I.						
	003688 ☐ CF						
Date	Time	Relinquished by:		Received by:		☐ Wastewater ☐ Drinking Water ☐ SW846 ☐ Samples Contain? ☐ HF ☐ CN ☐ S= ☐ other##	
04.07.14	0915	Printed Name James Van Dyke	Signature <i>James Van Dyke</i>	Affiliation TES2	Printed Name Gayle Gardner	Signature <i>Gayle Gardner</i>	Affiliation Anal
4-7-14	1245	Lewis R. C.		Ana-Lab		Gayle Gardner by CP	

Samples Received on Ice? ☒ Yes ☐ No

Method of Shipment ☐ Bus ☐ FedEx ☐ Lone Star ☐ UPS ☒ Hand Delivered ☐ Airborne ☐ Other

Tracking or Shipping Number

Cooler/Sample Secure? ☒ Yes ☐ No

Requested TAT ☐ Routine ☒ 3 day ☐ 2 Day ☐ Next Day

##comments

RUSH!

Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Sample analysis will be provided according to Ana-Lab's Standard Terms and Conditions of Agreement, available upon request and at www.ana-lab.com.
Any other terms proposed by Client are deemed material alterations and are rejected unless expressly agreed to in writing by Ana-Lab.

649444 CoC Print Group 001 of 001

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Exhibit 2. Analytical Report 643809



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Results

Report To:

Burk Royalty-Cruces #6

Account
TES2-A

Project
643809

Wilson/Dr. Rectenwald
Titanium Environmental
PO Box 4029
Longview, TX 75606

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279132 Cruces 1 0-6	Received: 02/19/2014					
Solid	Collected by: Client	Affiliation: Titanium Environment	02/18/2014	11:10:00		
Prepared: 556610 02/21/2014 15:33:00						
EPA 8260B	Analyzed: AAC	02/21/2014	15:33:00	QCgroup	556610	
N Benzene	<19.3 *	ug/kg	19.3	71-43-2	01	
N Ethylbenzene	<53.1 *	ug/kg	53.1	100-41-4	01	
N Toluene	<53.1 *	ug/kg	53.1	108-88-3	01	
N m- and p-Xylene	<53.1 *	ug/kg	53.1	ARC-mpXyl	01	
N o-Xylene	<53.1 *	ug/kg	53.1	95-47-6	01	
EPA 8260B	Analyzed: CAL	02/28/2014	14:00:24	QCgroup	556610	
N Xylenes, Total	<53.1 *	ug/kg	53.1	1330-20-7	01	
* Dry Weight Basis						
Prepared: 556428 02/21/2014 16:53:19						
EPA 9056	Analyzed: WJY	02/23/2014	03:26:53	QCgroup	556752	
N Chloride (water extractable)	443 *	mg/kg	15.9		03	
* Dry Weight Basis						
Prepared: 557264 02/27/2014 18:09:00						
SM2540 G, 20th /MOD	Analyzed: MLC	02/27/2014	18:09:00	QCgroup	557264	
N Total Solids for Dry Wt	94.2	%	0.010		01	
Prepared: 556257 02/20/2014 15:36:53						
TNRCC 1005 3	Analyzed: BRU	02/20/2014	20:50:00	QCgroup	556368	
N C06 to C12 TPH	<42.5 *	mg/kg	42.5		02	
N C12 to C28 TPH	<42.5 *	mg/kg	42.5		02	
* Dry Weight Basis						
Prepared: 556257 02/20/2014 15:36:53						
TX Method 1005	Analyzed: BRU	02/20/2014	20:50:00	QCgroup	556368	
N C28 to C40 TPH	<37.2 *	mg/kg	37.2		02	
* Dry Weight Basis						

1279133 Cruces 1 6-12

Received: 02/19/2014

Solid

Collected by: Client

Affiliation: Titanium Environment

02/18/2014

11:15:00

Prepared: 556610 02/21/2014 15:33:00						
EPA 8260B	Analyzed: AAC	02/21/2014	16:02:00	QCgroup	556610	
N Benzene	<24.0 *	ug/kg	24.0	71-43-2	01	
N Ethylbenzene	<66.0 *	ug/kg	66.0	100-41-4	01	

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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279133 Cruces 1 6-12	Received: 02/19/2014					
Solid	Collected by: Client	Affiliation: Titanium Environment	02/18/2014	11:15:00		
EPA 8260B	Prepared: 556428 02/21/2014 16:53:19					
N Toluene	30.3 *	ug/kg	66.0	J	108-88-3	01
N m- and p-Xylene	<66.0 *	ug/kg	66.0		ARC-mpXyl	01
N o-Xylene	<66.0 *	ug/kg	66.0		95-47-6	01
EPA 8260B	Analyzed: CAL 02/28/2014 14:00:24 QCgroup 556610					
N Xylenes, Total	<66.0 *	ug/kg	66.0		1330-20-7	01
* Dry Weight Basis						
EPA 9056	Prepared: 557264 02/27/2014 18:09:00					
N Chloride (water extractable)	240 *	mg/kg	3.96			03
* Dry Weight Basis						
SM2540 G, 20th /MOD	Prepared: 557264 02/27/2014 18:09:00					
N Total Solids for Dry Wt	75.8	%	0.010			01
TNRCC 1005 3	Prepared: 556257 02/20/2014 15:36:53					
N C06 to C12 TPH	<52.8 *	mg/kg	52.8			02
N C12 to C28 TPH	<52.8 *	mg/kg	52.8			02
* Dry Weight Basis						
TX Method 1005	Prepared: 556257 02/20/2014 15:36:53					
N C28 to C40 TPH	<46.2 *	mg/kg	46.2			02
* Dry Weight Basis						
1279134 Cruces 1 12-24	Received: 02/19/2014					
Solid	Collected by: Client	Affiliation: Titanium Environment	02/18/2014	11:20:00		
EPA 8260B	Prepared: 556610 02/21/2014 15:33:00					
N Benzene	<19.5 *	ug/kg	19.5		71-43-2	01
N Ethylbenzene	<53.6 *	ug/kg	53.6		100-41-4	01
N Toluene	<53.6 *	ug/kg	53.6		108-88-3	01
N m- and p-Xylene	<53.6 *	ug/kg	53.6		ARC-mpXyl	01
N o-Xylene	<53.6 *	ug/kg	53.6		95-47-6	01
EPA 8260B	Analyzed: CAL 02/28/2014 14:00:24 QCgroup 556610					
N Xylenes, Total	<53.6 *	ug/kg	53.6		1330-20-7	01
* Dry Weight Basis						
EPA 9056	Prepared: 556428 02/21/2014 16:53:19					
N Chloride (water extractable)	771 *	mg/kg	32.2			03

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Results

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
1279134 Cruces 1 12-24						Received: 02/19/2014
Solid	Collected by: Client		Affiliation: Titanium Environment		02/18/2014	11:20:00
* Dry Weight Basis						
SM2540 G, 20th /MOD	Prepared: 557264		02/27/2014		18:09:00	
N Total Solids for Dry Wt	93.3	%	0.010	Analyzed: MLC 02/27/2014	18:09:00 QCgroup	557264 01
TNRCC 1005 3	Prepared: 556257		02/20/2014		15:36:53	
N C06 to C12 TPH	<42.9 *	mg/kg	42.9	Analyzed: BRU 02/20/2014	21:08:00 QCgroup	556368 02
N C12 to C28 TPH	<42.9 *	mg/kg	42.9			02
* Dry Weight Basis						
TX Method 1005	Prepared: 556257		02/20/2014		15:36:53	
N C28 to C40 TPH	<37.5 *	mg/kg	37.5	Analyzed: BRU 02/20/2014	21:08:00 QCgroup	556368 02
* Dry Weight Basis						

Sample Preparation

1279132 Cruces 1 0-6						Received: 02/19/2014
Bottle Temperature on Receipt	1	degrees		Prepared: 02/19/2014	00:00:00	
				Analyzed: CCP 02/19/2014	00:00:00 QCgroup	01
Calculation				Prepared: 02/28/2014	14:05:20	
As Received to Dry Weight Basis	Calculated			Analyzed: CAL 02/28/2014	14:05:20 QCgroup	
EPA 9056	Prepared: 556428		02/21/2014		16:53:19	
N Water Extract-Ion Chromatography	50/5	grams		Analyzed: NTK 02/21/2014	16:53:19 QCgroup	556428 01
SW-846 5035	Prepared: 556301		02/20/2014		16:00:00	
N VOC 5035 High Level Extraction	done	grams		Analyzed: AAC 02/20/2014	16:00:00 QCgroup	556301 01
SW-846 8260B	Prepared: 556610		02/21/2014		15:33:00	
N BTEX Solid Samples by GC/MS	Entered			Analyzed: AAC 02/21/2014	15:33:00 QCgroup	556610 01
TNRCC 1005 3	Prepared: 556257		02/20/2014		15:36:53	
N Texas1005 TPH Expansion - C40	Entered			Analyzed: BRU 02/20/2014	20:50:00 QCgroup	556368 02

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Results

Sample Preparation

1279132 Cruces 1 0-6

Received: 02/19/2014

TX 1005 3	Prepared:	556257	02/20/2014	15:36:53		
N	1005 TPH Extraction Solid	10/10	Analyzed: NTK 02/20/2014	15:36:53	QCgroup	556257
			grams			01

1279133 Cruces 1 6-12

Received: 02/19/2014

	Prepared:		02/19/2014	00:00:00		
			Analyzed: CCP 02/19/2014	00:00:00	QCgroup	
Bottle Temperature on Receipt		<1	degrees			01

Calculation	Prepared:		02/28/2014	14:05:20		
			Analyzed: CAL 02/28/2014	14:05:20	QCgroup	
As Received to Dry Weight Basis		Calculated				

EPA 9056	Prepared:	556428	02/21/2014	16:53:19		
N	Water Extract-Ion Chromatography	50/5	Analyzed: NTK 02/21/2014	16:53:19	QCgroup	556428
			grams			01

SW-846 5035	Prepared:	556301	02/20/2014	16:00:00		
N	VOC 5035 High Level Extraction	done	Analyzed: AAC 02/20/2014	16:00:00	QCgroup	556301
			grams			01

SW-846 8260B	Prepared:	556610	02/21/2014	15:33:00		
N	BTEX Solid Samples by GC/MS	Entered	Analyzed: AAC 02/21/2014	16:02:00	QCgroup	556610
						01

TNRCC 1005 3	Prepared:	556257	02/20/2014	15:36:53		
N	Texas1005 TPH Expansion - C40	Entered	Analyzed: BRU 02/20/2014	20:59:00	QCgroup	556368
						02

TX 1005 3	Prepared:	556257	02/20/2014	15:36:53		
N	1005 TPH Extraction Solid	10/10	Analyzed: NTK 02/20/2014	15:36:53	QCgroup	556257
			grams			01

1279134 Cruces 1 12-24

Received: 02/19/2014

	Prepared:		02/19/2014	00:00:00		
			Analyzed: CCP 02/19/2014	00:00:00	QCgroup	
Bottle Temperature on Receipt		<1	degrees			01

Calculation	Prepared:		02/28/2014	14:05:20		
			Analyzed: CAL 02/28/2014	14:05:20	QCgroup	
As Received to Dry Weight Basis		Calculated				

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Results

Sample Preparation

1279134 Cruces 1 12-24

Received: 02/19/2014

		Prepared:	556428	02/21/2014	16:53:19		
EPA 9056				Analyzed: NTK	02/21/2014	16:53:19	QCgroup
N	Water Extract-Ion Chromatography		50/5	grams			556428
							01
		Prepared:	556301	02/20/2014	16:00:00		
SW-846 5035				Analyzed: AAC	02/20/2014	16:00:00	QCgroup
N	VOC 5035 High Level Extraction		done	grams			556301
							01
		Prepared:	556610	02/21/2014	15:33:00		
SW-846 8260B				Analyzed: AAC	02/21/2014	16:30:00	QCgroup
N	BTEX Solid Samples by GC/MS		Entered				556610
							01
		Prepared:	556257	02/20/2014	15:36:53		
TNRCC 1005 3				Analyzed: BRU	02/20/2014	21:08:00	QCgroup
N	Texas1005 TPH Expansion - C40		Entered				556368
							02
		Prepared:	556257	02/20/2014	15:36:53		
TX 1005 3				Analyzed: NTK	02/20/2014	15:36:53	QCgroup
N	1005 TPH Extraction Solid		10/10	grams			556257
							01

Qualifiers:

J - Analyte detected below quantitation limit

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

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Results

C. H. Whiteside

C. H. Whiteside, Ph.D., President



Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

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NELAP-accredited #T104704201

Exhibit 3. Summary Table 649444

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 Burk Royalty Co.,Ltd.
 Cruces No. 6 Release
 Ana-Lab Project Report 649444
 Collected: 04.04.2014

Constituent	Title 19, Chapter 15 NMAC	Soil COC Concentration (ppm)					
		Cruces 1 0-12"	Cruces 1 12-24"	Waste Pile Location 0-6"	Waste Pile Location 12-24"	Surface Comp	Pile Location Surface Comp
SM2540 G							
Total Solids for Dry Wt %	--	96.2	92.1	97.0	68.0	74.1	96.2
SW-846 8260B							
Benzene	10.0	NA	NA	<0.0155	<0.0221	<0.0246	<0.0156
Ethylbenzene	50.0	NA	NA	<0.0515	<0.0735	<0.0675	0.037 J
Toluene	50.0	NA	NA	<0.0515	<0.0735	<0.0675	0.186
m- and p-Xylene	50.0	NA	NA	<0.0515	<0.0735	<0.0675	0.0686
o-Xylene	50.0	NA	NA	<0.0515	<0.0735	<0.0675	0.0816
EPA 9056							
Chlorides	1000.0	3.06 J	5.33	62.0	10.3	53.0	44.0
TX Method 1005							
C6 to C12 TPH ^a	--	NA	NA	<41.2	<58.8	<54.0	<41.6
C12 to C28 TPH ^a	--	NA	NA	<41.2	<58.8	<54.0	222
C28 to C40 TPH ^b	--	NA	NA	<41.2	<58.8	<54.0	<41.6
C6 to C40 TPH ^b	5000.0	NA	NA	<41.2	<58.8	<54.0	222

Notes:

--No limit defined

Bold - Analyte detected.

NA - Not analyzed.

Title 19, Chapter 15 New Mexico Administrative Code

Laboratory Qualifiers:

J - Analyte detected below quantitation limit.

Exhibit 4. Site Photo Doc

BURK ROYALTY CO., LTD
CRUCES #6- API 025-02462
SITE PHOTOS
APRIL 4, 2014

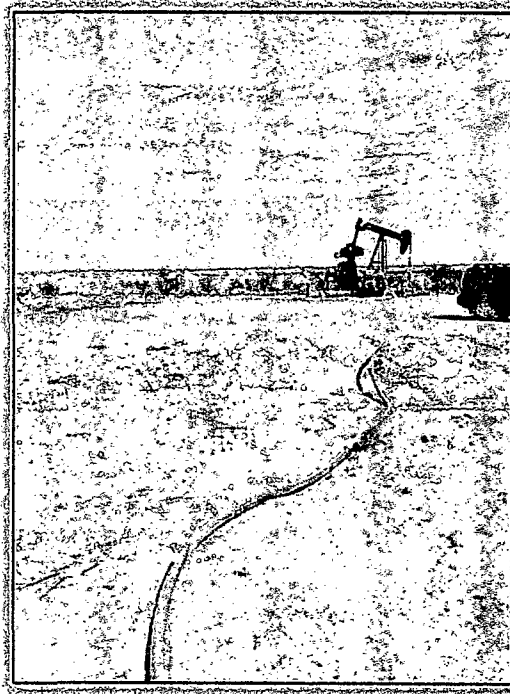


Photo 1.: View of the Cruces #6 pump-jack taken from southern edge of release area, approximately 100-feet south of the pump-jack.



Photo 2.: View facing east of the previous location of the waste pile and the general release location after excavation of approximately 6 inches of material.

**BURK ROYALTY CO., LTD
CRUCES #6- API 025-02462
SITE PHOTOS
APRIL 4, 2014**



Photo 3.: View facing south, showing clean soil where the surface was previously stained.

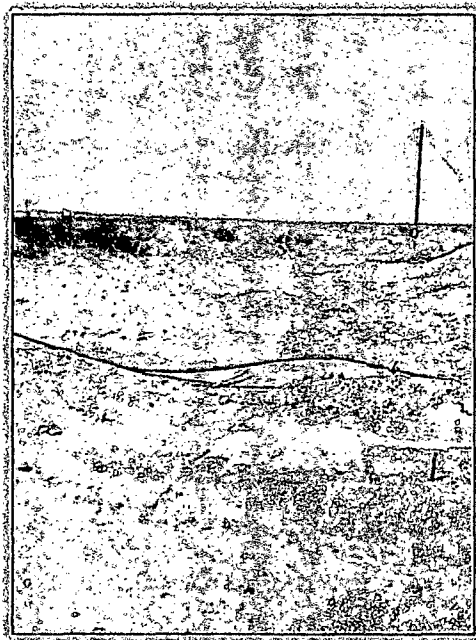


Photo 4.: View facing west, showing the release location and the overall site after remediation.