

From: [Yu, Olivia, EMNRD](#)
To: [BCC, Inc.](#)
Cc: [rmann@slo.state.nm.us](#); [vsmith@texpetro.com](#); [rmccracken56@gmail.com](#); [kjordan@texpetro.com](#); [kjackson@texpetro.com](#)
Subject: Re: 1RP-5025 Texland State A 29 #7
Date: Friday, June 22, 2018 3:04:37 PM

Mr. Porter:

Noted. Thanks for your prompt response.

Olivia

Sent from my iPhone

On Jun 22, 2018, at 14:03, BCC, Inc. <bcccorp@aol.com> wrote:

Olivia,

The samples taken at 96" and 108 " had to be moved over just a couple of inches because we had to change to a heavy duty truck auger to core the deep holes (you can see this in the pictures that I sent you in the previous email). When we first began delineating this site, we did not have heavy enough equipment to pierce the rock layer we encountered at 4'. I have attached the full laboratory analysis to this email showing that the soil sample temperatures were at 2 degC. I'm sorry if I misunderstood you before, but I did not run a laboratory analysis on the field testing we were doing while we were trying to find the "bottom." Once excavation is complete, all of our confirmation bottom and sidewall samples will be analyzed by a certified laboratory.

Thank you Olivia!
Paul Porter
BCC, Inc.

-----Original Message-----

From: Yu, Olivia, EMNRD, EMNRD <Olivia.Yu@state.nm.us>
To: Mann, Ryan <rmann@slo.state.nm.us>; 'BCC, Inc.' <bcccorp@aol.com>
Cc: vsmith <vsmith@texpetro.com>; rmccracken56 <rmccracken56@gmail.com>; kjordan <kjordan@texpetro.com>; kjackson <kjackson@texpetro.com>
Sent: Fri, Jun 22, 2018 12:48 pm
Subject: RE: 1RP-5025 Texland State A 29 #7

Mr. Porter:

NMOCD agrees with NMSLO regarding the locations of the confirmation sample locations for 1RP-5025. Please tabulate or mark GPS coordinates on a scaled map of the confirmation sample locations.

NMOCD will agree that delineation is completed. However, please address these questions:

1. Were the samples taken at 96" or 108" bgs for laboratory analyses in the same

- trench as the upper depths? The GPS coordinates vary slightly.
2. Please provide corresponding field tests for soil samples sent to the laboratory for correlation as the samples from 0 to 4 ft. do not have laboratory data.
 3. Please clarify soil temperature of laboratory samples. The information on the chain of custody form is not clear.

Thanks,
Olivia

From: Mann, Ryan <rmann@slo.state.nm.us>
Sent: Monday, June 18, 2018 2:43 PM
To: 'BCC, Inc.' <bcccorp@aol.com>; Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: vsmith@texpetro.com; rmccracken56@gmail.com; kjordan@texpetro.com; kjackson@texpetro.com
Subject: RE: 1RP-5025 Texland State A 29 #7

Good Afternoon,

NMSLO approves of the plan as written. As stated in the report, confirmations samples (BTEx, TPH, and chloride) of bottom/sidewall of excavations and where the excavation depth changes are necessary. Samples should be taken at no greater than 50 feet apart. NMOCD may have additional comments.

Ryan Mann
Remediation Specialist
Field Operation Division
(575) 392-3697
(505) 699-1989
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

From: BCC, Inc. [<mailto:bcccorp@aol.com>]
Sent: Thursday, June 14, 2018 4:36 PM
To: olivia.yu@state.nm.us; Mann, Ryan <rmann@slo.state.nm.us>
Cc: vsmith@texpetro.com; rmccracken56@gmail.com; kjordan@texpetro.com; kjackson@texpetro.com
Subject: 1RP-5025 Texland State A 29 #7

Good afternoon Olivia and Ryan,

I have attached to this email our delineation field / lab sample analysis and the related documentation for the reportable spill off of Texland Petroleum's State 'A' 29 Well #7. I have also included a corrective action plan that is being submitted for your approval. Please let me know if you need anything else regarding this matter.

Thank you!
Paul Porter
BCC, Inc.

Office # 1 800.765.3478
Cell # 806.790.1698

www.bcccorp.com

<image001.jpg>

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>

<Texland State A 29 #7 Delineation Samples.pdf>



Certificate of Analysis Summary 587349

BCC, Inc.-Lubbock, Lubbock, TX

Project Name: Texland Petroleum

Project Id:

Contact: Paul Porter

Project Location: State 'A' 29 Lease -Well #7 (NM)

Date Received in Lab: Fri May-25-18 03:30 pm

Report Date: 05-JUN-18

Project Manager: Brandi Ritcherson

Analysis Requested	Lab Id:	587349-001	587349-002	587349-003	587349-004	587349-005	587349-006
	Field Id:	1A - 108	1B - 96	1C - 108	1D - 96	1E - 96	1F - 108
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-22-18 09:30	May-22-18 09:50	May-22-18 10:10	May-22-18 10:30	May-22-18 11:00	May-22-18 11:30
BTEX by EPA 8021B	Extracted:	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30
	Analyzed:	May-30-18 03:06	May-30-18 05:48	May-30-18 06:15	May-30-18 06:42	May-30-18 07:09	May-30-18 07:36
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00843 0.0187	<0.00876 0.0194	<0.00890 0.0197	<0.00868 0.0192	<0.00888 0.0196	<0.00878 0.0194
Toluene		<0.00437 0.0187	<0.00453 0.0194	<0.00461 0.0197	<0.00449 0.0192	<0.00460 0.0196	<0.00454 0.0194
Ethylbenzene		<0.00575 0.0187	<0.00597 0.0194	<0.00606 0.0197	<0.00591 0.0192	<0.00605 0.0196	<0.00598 0.0194
m,p-Xylenes		<0.00636 0.0373	<0.00661 0.0388	<0.00671 0.0394	<0.00655 0.0384	<0.00670 0.0393	<0.00662 0.0388
o-Xylene		<0.00636 0.0187	<0.00661 0.0194	<0.00671 0.0197	<0.00655 0.0192	<0.00670 0.0196	<0.00662 0.0194
Total Xylenes		<0.00636 0.0187	<0.00661 0.0194	<0.00671 0.0197	<0.00655 0.0192	<0.00670 0.0196	<0.00662 0.0194
Total BTEX		<0.00437 0.0187	<0.00453 0.0194	<0.00461 0.0197	<0.00449 0.0192	<0.00460 0.0196	<0.00454 0.0194
Chloride by EPA 300	Extracted:	Jun-01-18 15:00	Jun-01-18 15:00	Jun-01-18 15:00	Jun-01-18 15:00	Jun-01-18 15:00	Jun-01-18 15:00
	Analyzed:	Jun-04-18 19:41	Jun-04-18 19:53	Jun-04-18 20:18	Jun-04-18 20:43	Jun-04-18 20:56	Jun-04-18 21:20
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		109 25.0	131 25.0	182 25.0	180 25.0	238 25.0	104 25.0
DRO-ORO By SW8015B	Extracted:	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00	May-29-18 14:00
	Analyzed:	May-29-18 16:54	May-29-18 18:45	May-29-18 19:21	May-29-18 20:00	May-29-18 20:36	May-29-18 21:11
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Diesel Range Organics (DRO)		<7.53 25.2	<7.53 25.2	<7.52 25.1	<7.49 25.0	<7.43 24.8	23.3 J 25.2
Oil Range Hydrocarbons (ORO)		<7.53 25.2	<7.53 25.2	<7.52 25.1	<7.49 25.0	<7.43 24.8	<7.54 25.2
TPH GRO by EPA 8015 Mod.	Extracted:	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30	May-29-18 13:30
	Analyzed:	May-30-18 03:06	May-30-18 05:48	May-30-18 06:15	May-30-18 06:42	May-30-18 07:09	May-30-18 07:36
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH-GRO		<0.253 3.73	<0.263 3.88	<0.267 3.94	<0.260 3.84	<0.266 3.93	<0.263 3.88

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brandi Ritcherson
Project Manager

Analytical Report 587349

**for
BCC, Inc.-Lubbock**

Project Manager: Paul Porter

Texland Petroleum

05-JUN-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



05-JUN-18

Project Manager: **Paul Porter**
BCC, Inc.-Lubbock
3302 122nd St
P.O. Box 53427
Lubbock, TX 79453

Reference: XENCO Report No(s): **587349**
Texland Petroleum
Project Address: State 'A' 29 Lease -Well #7 (NM)

Paul Porter :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 587349. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 587349 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Brandi Ritcherson', is written over a horizontal line.

Brandi Ritcherson

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
1A - 108	S	05-22-18 09:30		587349-001
1B - 96	S	05-22-18 09:50		587349-002
1C - 108	S	05-22-18 10:10		587349-003
1D - 96	S	05-22-18 10:30		587349-004
1E - 96	S	05-22-18 11:00		587349-005
1F - 108	S	05-22-18 11:30		587349-006



CASE NARRATIVE

Client Name: BCC, Inc.-Lubbock

Project Name: Texland Petroleum

Project ID:

Work Order Number(s): 587349

Report Date: 05-JUN-18

Date Received: 05/25/2018

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3051757 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1A - 108**
Lab Sample Id: 587349-001

Matrix: Soil
Date Collected: 05.22.18 09.30

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 06.01.18 15.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	109	25.0	0.572	mg/kg	06.04.18 19.41		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 14.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.53	25.2	7.53	mg/kg	05.29.18 16.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.53	25.2	7.53	mg/kg	05.29.18 16.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	117	%	65-144	05.29.18 16.54	
n-Triacontane	638-68-6	81	%	46-152	05.29.18 16.54	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 13.30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00843	0.0187	0.00843	mg/kg	05.30.18 03.06	U	1
Toluene	108-88-3	<0.00437	0.0187	0.00437	mg/kg	05.30.18 03.06	U	1
Ethylbenzene	100-41-4	<0.00575	0.0187	0.00575	mg/kg	05.30.18 03.06	U	1
m,p-Xylenes	179601-23-1	<0.00636	0.0373	0.00636	mg/kg	05.30.18 03.06	U	1
o-Xylene	95-47-6	<0.00636	0.0187	0.00636	mg/kg	05.30.18 03.06	U	1
Total Xylenes	1330-20-7	<0.00636	0.0187	0.00636	mg/kg	05.30.18 03.06	U	1
Total BTEX		<0.00437	0.0187	0.00437	mg/kg	05.30.18 03.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	68-120	05.30.18 03.06	
a,a,a-Trifluorotoluene	98-08-8	112	%	71-121	05.30.18 03.06	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1A - 108**
Lab Sample Id: 587349-001

Matrix: Soil
Date Collected: 05.22.18 09.30

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.253	3.73	0.253	mg/kg	05.30.18 03.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	95	%	76-123	05.30.18 03.06			
a,a,a-Trifluorotoluene	98-08-8	82	%	69-120	05.30.18 03.06			



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1B - 96**
Lab Sample Id: 587349-002

Matrix: Soil
Date Collected: 05.22.18 09.50

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Prep Method: E300P

% Moisture:

Date Prep: 06.01.18 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	25.0	0.572	mg/kg	06.04.18 19.53		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Prep Method: SW8015P

% Moisture:

Date Prep: 05.29.18 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.53	25.2	7.53	mg/kg	05.29.18 18.45	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.53	25.2	7.53	mg/kg	05.29.18 18.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	109	%	65-144	05.29.18 18.45	
n-Triacontane	638-68-6	80	%	46-152	05.29.18 18.45	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Prep Method: SW5030B

% Moisture:

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00876	0.0194	0.00876	mg/kg	05.30.18 05.48	U	1
Toluene	108-88-3	<0.00453	0.0194	0.00453	mg/kg	05.30.18 05.48	U	1
Ethylbenzene	100-41-4	<0.00597	0.0194	0.00597	mg/kg	05.30.18 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00661	0.0388	0.00661	mg/kg	05.30.18 05.48	U	1
o-Xylene	95-47-6	<0.00661	0.0194	0.00661	mg/kg	05.30.18 05.48	U	1
Total Xylenes	1330-20-7	<0.00661	0.0194	0.00661	mg/kg	05.30.18 05.48	U	1
Total BTEX		<0.00453	0.0194	0.00453	mg/kg	05.30.18 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	05.30.18 05.48	
a,a,a-Trifluorotoluene	98-08-8	106	%	71-121	05.30.18 05.48	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1B - 96**
Lab Sample Id: 587349-002

Matrix: Soil
Date Collected: 05.22.18 09.50

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.263	3.88	0.263	mg/kg	05.30.18 05.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	98	%	76-123	05.30.18 05.48			
a,a,a-Trifluorotoluene	98-08-8	80	%	69-120	05.30.18 05.48			



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1C - 108**
Lab Sample Id: 587349-003

Matrix: Soil
Date Collected: 05.22.18 10.10

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 06.01.18 15.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	182	25.0	0.572	mg/kg	06.04.18 20.18		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 14.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.52	25.1	7.52	mg/kg	05.29.18 19.21	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.52	25.1	7.52	mg/kg	05.29.18 19.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	05.29.18 19.21	
n-Triacontane	638-68-6	73	%	46-152	05.29.18 19.21	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 13.30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00890	0.0197	0.00890	mg/kg	05.30.18 06.15	U	1
Toluene	108-88-3	<0.00461	0.0197	0.00461	mg/kg	05.30.18 06.15	U	1
Ethylbenzene	100-41-4	<0.00606	0.0197	0.00606	mg/kg	05.30.18 06.15	U	1
m,p-Xylenes	179601-23-1	<0.00671	0.0394	0.00671	mg/kg	05.30.18 06.15	U	1
o-Xylene	95-47-6	<0.00671	0.0197	0.00671	mg/kg	05.30.18 06.15	U	1
Total Xylenes	1330-20-7	<0.00671	0.0197	0.00671	mg/kg	05.30.18 06.15	U	1
Total BTEX		<0.00461	0.0197	0.00461	mg/kg	05.30.18 06.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	05.30.18 06.15	
a,a,a-Trifluorotoluene	98-08-8	107	%	71-121	05.30.18 06.15	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1C - 108**
Lab Sample Id: 587349-003

Matrix: Soil
Date Collected: 05.22.18 10.10

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.267	3.94	0.267	mg/kg	05.30.18 06.15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	101	%	76-123	05.30.18 06.15			
a,a,a-Trifluorotoluene	98-08-8	77	%	69-120	05.30.18 06.15			



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1D - 96**
Lab Sample Id: 587349-004

Matrix: Soil
Date Collected: 05.22.18 10.30

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Prep Method: E300P

% Moisture:

Date Prep: 06.01.18 15.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	25.0	0.572	mg/kg	06.04.18 20.43		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Prep Method: SW8015P

% Moisture:

Date Prep: 05.29.18 14.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.49	25.0	7.49	mg/kg	05.29.18 20.00	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.49	25.0	7.49	mg/kg	05.29.18 20.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	106	%	65-144	05.29.18 20.00	
n-Triacontane	638-68-6	79	%	46-152	05.29.18 20.00	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Prep Method: SW5030B

% Moisture:

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00868	0.0192	0.00868	mg/kg	05.30.18 06.42	U	1
Toluene	108-88-3	<0.00449	0.0192	0.00449	mg/kg	05.30.18 06.42	U	1
Ethylbenzene	100-41-4	<0.00591	0.0192	0.00591	mg/kg	05.30.18 06.42	U	1
m,p-Xylenes	179601-23-1	<0.00655	0.0384	0.00655	mg/kg	05.30.18 06.42	U	1
o-Xylene	95-47-6	<0.00655	0.0192	0.00655	mg/kg	05.30.18 06.42	U	1
Total Xylenes	1330-20-7	<0.00655	0.0192	0.00655	mg/kg	05.30.18 06.42	U	1
Total BTEX		<0.00449	0.0192	0.00449	mg/kg	05.30.18 06.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	68-120	05.30.18 06.42	
a,a,a-Trifluorotoluene	98-08-8	110	%	71-121	05.30.18 06.42	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1D - 96**
Lab Sample Id: 587349-004

Matrix: Soil
Date Collected: 05.22.18 10.30

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.260	3.84	0.260	mg/kg	05.30.18 06.42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	92	%	76-123	05.30.18 06.42			
a,a,a-Trifluorotoluene	98-08-8	88	%	69-120	05.30.18 06.42			



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1E - 96**
Lab Sample Id: 587349-005

Matrix: Soil
Date Collected: 05.22.18 11.00

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Date Prep: 06.01.18 15.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	238	25.0	0.572	mg/kg	06.04.18 20.56		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 14.00

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<7.43	24.8	7.43	mg/kg	05.29.18 20.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.43	24.8	7.43	mg/kg	05.29.18 20.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	107	%	65-144	05.29.18 20.36	
n-Triacontane	638-68-6	76	%	46-152	05.29.18 20.36	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Date Prep: 05.29.18 13.30

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00888	0.0196	0.00888	mg/kg	05.30.18 07.09	U	1
Toluene	108-88-3	<0.00460	0.0196	0.00460	mg/kg	05.30.18 07.09	U	1
Ethylbenzene	100-41-4	<0.00605	0.0196	0.00605	mg/kg	05.30.18 07.09	U	1
m,p-Xylenes	179601-23-1	<0.00670	0.0393	0.00670	mg/kg	05.30.18 07.09	U	1
o-Xylene	95-47-6	<0.00670	0.0196	0.00670	mg/kg	05.30.18 07.09	U	1
Total Xylenes	1330-20-7	<0.00670	0.0196	0.00670	mg/kg	05.30.18 07.09	U	1
Total BTEX		<0.00460	0.0196	0.00460	mg/kg	05.30.18 07.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	68-120	05.30.18 07.09	
a,a,a-Trifluorotoluene	98-08-8	115	%	71-121	05.30.18 07.09	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1E - 96**
Lab Sample Id: 587349-005

Matrix: Soil
Date Collected: 05.22.18 11.00

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.266	3.93	0.266	mg/kg	05.30.18 07.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	95	%	76-123	05.30.18 07.09			
a,a,a-Trifluorotoluene	98-08-8	86	%	69-120	05.30.18 07.09			



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1F - 108**
Lab Sample Id: 587349-006

Matrix: Soil
Date Collected: 05.22.18 11.30

Date Received: 05.25.18 15.30

Analytical Method: Chloride by EPA 300

Tech: RNL

Analyst: RNL

Seq Number: 3052239

Date Prep: 06.01.18 15.00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	25.0	0.572	mg/kg	06.04.18 21.20		1

Analytical Method: DRO-ORO By SW8015B

Tech: PGM

Analyst: PGM

Seq Number: 3051669

Date Prep: 05.29.18 14.00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	23.3	25.2	7.54	mg/kg	05.29.18 21.11	J	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<7.54	25.2	7.54	mg/kg	05.29.18 21.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	116	%	65-144	05.29.18 21.11	
n-Triacontane	638-68-6	80	%	46-152	05.29.18 21.11	

Analytical Method: BTEX by EPA 8021B

Tech: MIT

Analyst: MIT

Seq Number: 3051757

Date Prep: 05.29.18 13.30

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00878	0.0194	0.00878	mg/kg	05.30.18 07.36	U	1
Toluene	108-88-3	<0.00454	0.0194	0.00454	mg/kg	05.30.18 07.36	U	1
Ethylbenzene	100-41-4	<0.00598	0.0194	0.00598	mg/kg	05.30.18 07.36	U	1
m,p-Xylenes	179601-23-1	<0.00662	0.0388	0.00662	mg/kg	05.30.18 07.36	U	1
o-Xylene	95-47-6	<0.00662	0.0194	0.00662	mg/kg	05.30.18 07.36	U	1
Total Xylenes	1330-20-7	<0.00662	0.0194	0.00662	mg/kg	05.30.18 07.36	U	1
Total BTEX		<0.00454	0.0194	0.00454	mg/kg	05.30.18 07.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	68-120	05.30.18 07.36	
a,a,a-Trifluorotoluene	98-08-8	109	%	71-121	05.30.18 07.36	



Certificate of Analytical Results 587349

BCC, Inc.-Lubbock, Lubbock, TX

Texland Petroleum

Sample Id: **1F - 108**
Lab Sample Id: 587349-006

Matrix: Soil
Date Collected: 05.22.18 11.30

Date Received: 05.25.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 05.29.18 13.30

Basis: Wet Weight

Seq Number: 3051733

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<0.263	3.88	0.263	mg/kg	05.30.18 07.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	97	%	76-123	05.30.18 07.36			
a,a,a-Trifluorotoluene	98-08-8	84	%	69-120	05.30.18 07.36			

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

BCC, Inc.-Lubbock
Texland Petroleum

Analytical Method: Chloride by EPA 300

Seq Number: 3052239

MB Sample Id: 7655980-1-BLK

Matrix: Solid

LCS Sample Id: 7655980-1-BKS

Prep Method: E300P

Date Prep: 06.01.18

LCSD Sample Id: 7655980-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.572	250	238	95	238	95	90-110	0	20	mg/kg	06.04.18 17:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3052239

Parent Sample Id: 587282-007

Matrix: Soil

MS Sample Id: 587282-007 S

Prep Method: E300P

Date Prep: 06.01.18

MSD Sample Id: 587282-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	746	250	965	88	973	91	80-120	1	20	mg/kg	06.04.18 18:02	

Analytical Method: Chloride by EPA 300

Seq Number: 3052239

Parent Sample Id: 587349-006

Matrix: Soil

MS Sample Id: 587349-006 S

Prep Method: E300P

Date Prep: 06.01.18

MSD Sample Id: 587349-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	104	250	323	88	320	86	80-120	1	20	mg/kg	06.04.18 21:45	

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3051669

MB Sample Id: 7655640-1-BLK

Matrix: Solid

LCS Sample Id: 7655640-1-BKS

Prep Method: SW8015P

Date Prep: 05.29.18

LCSD Sample Id: 7655640-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<7.48	100	101	101	105	105	63-139	4	20	mg/kg	05.29.18 15:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tricosane	117		115		116		65-144	%	05.29.18 15:41
n-Triacontane	87		83		79		46-152	%	05.29.18 15:41

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 587349

BCC, Inc.-Lubbock Texland Petroleum

Analytical Method: DRO-ORO By SW8015B

Seq Number: 3051669

Parent Sample Id: 587349-001

Matrix: Soil

MS Sample Id: 587349-001 S

Prep Method: SW8015P

Date Prep: 05.29.18

MSD Sample Id: 587349-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<7.43	99.3	127	128	136	136	63-139	7	20	mg/kg	05.29.18 17:29	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
Tricosane			119		125		65-144			%	05.29.18 17:29	
n-Triacontane			79		79		46-152			%	05.29.18 17:29	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3051757

MB Sample Id: 7655592-1-BLK

Matrix: Solid

LCS Sample Id: 7655592-1-BKS

Prep Method: SW5030B

Date Prep: 05.29.18

LCSD Sample Id: 7655592-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00904	2.00	1.83	92	1.83	92	55-120	0	20	mg/kg	05.29.18 23:56	
Toluene	<0.00468	2.00	2.01	101	2.07	104	77-120	3	20	mg/kg	05.29.18 23:56	
Ethylbenzene	<0.00616	2.00	2.10	105	2.15	108	77-120	2	20	mg/kg	05.29.18 23:56	
m,p-Xylenes	<0.00682	4.00	4.21	105	4.34	109	78-120	3	20	mg/kg	05.29.18 23:56	
o-Xylene	<0.00682	2.00	2.07	104	2.12	106	78-120	2	20	mg/kg	05.29.18 23:56	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
4-Bromofluorobenzene	100		100		101		68-120			%	05.29.18 23:56	
a,a,a-Trifluorotoluene	98		86		85		71-121			%	05.29.18 23:56	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3051757

Parent Sample Id: 587349-001

Matrix: Soil

MS Sample Id: 587349-001 S

Prep Method: SW5030B

Date Prep: 05.29.18

MSD Sample Id: 587349-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00902	2.00	1.64	82	1.82	91	54-120	10	25	mg/kg	05.30.18 03:33	
Toluene	<0.00467	2.00	1.99	100	2.10	106	57-120	5	25	mg/kg	05.30.18 03:33	
Ethylbenzene	<0.00615	2.00	2.12	106	2.16	109	58-131	2	25	mg/kg	05.30.18 03:33	
m,p-Xylenes	<0.00681	3.99	4.21	106	4.28	108	62-124	2	25	mg/kg	05.30.18 03:33	
o-Xylene	<0.00681	2.00	2.07	104	2.11	106	62-124	2	25	mg/kg	05.30.18 03:33	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
4-Bromofluorobenzene			109		107		68-120			%	05.30.18 03:33	
a,a,a-Trifluorotoluene			99		102		71-121			%	05.30.18 03:33	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

BCC, Inc.-Lubbock
Texland Petroleum

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3051733

MB Sample Id: 7655594-1-BLK

Matrix: Solid

LCS Sample Id: 7655594-1-BKS

Prep Method: SW5030B

Date Prep: 05.29.18

LCSD Sample Id: 7655594-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<0.271	20.0	20.5	103	21.8	109	35-129	6	20	mg/kg	05.30.18 00:51	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene	90		103		99		76-123	%	05.30.18 00:51			
a,a,a-Trifluorotoluene	120		93		86		69-120	%	05.30.18 00:51			

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3051733

Parent Sample Id: 587349-001

Matrix: Soil

MS Sample Id: 587349-001 S

Prep Method: SW5030B

Date Prep: 05.29.18

MSD Sample Id: 587349-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<0.263	19.4	16.6	86	16.5	87	35-129	1	20	mg/kg	05.30.18 04:26	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene			108		112		76-123	%	05.30.18 04:26			
a,a,a-Trifluorotoluene			77		78		69-120	%	05.30.18 04:26			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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Contact Person: **David Perier** E-mail: **dperier@dcc.com**

Invoice to: **David Perier**

(If different from above) **P.O. Box 23177 Lubbock, TX 79402**

Project #: **Texland Petroleum**

Project Location (including state): **State 'A' 29 Lease-Well #1 (NM)**

Project Name: **Sal pier Signature**

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	
1	1A-108	1		✓								✓	5/24/18 9:30
2	1B-96	1		✓								✓	5/24/18 9:50
3	1C-108	1		✓								✓	5/24/18 10:10
4	1D-96	1		✓								✓	5/24/18 10:30
5	1E-96	1		✓								✓	5/24/18 11:00
6	1F-108	1		✓								✓	5/24/18 11:20

ANALYSIS REQUEST
(Circle or specify, etc.)

MTBE 8021 / 602 / 8260 / 624	✓
BTEX 8021 / 602 / 8260 / 624	✓
TPH 418.1 / TX1005 / TX1005 Ext(C35)	✓
TPH 8015 GRO / DRG / TVHC	✓
PAH 8270 / 625	✓
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	✓
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	✓
TCLP Volatiles	✓
TCLP Semi Volatiles	✓
TCLP Pesticides	✓
RCI	✓
GC/MS Vol. 8260 / 624	✓
GC/MS Semi. Vol. 8270 / 625	✓
PCB's 8082 / 608	✓
Pesticides 8081 / 608	✓
BOD, TSS, pH	✓
Moisture Content	✓
Cl, F, SO ₄ , NO ₃ -N, NO ₂ -N, PO ₄ -P, Alkalinity	✓
Na, Ca, Mg, K, TDS, EC	✓

Turn Around Time if different from standard

Relinquished by: **David Perier** Company: **ECC, Inc.** Date: **5/25/18** Time: **5:25/18**

Relinquished by: _____ Company: _____ Date: _____ Time: _____

Relinquished by: _____ Company: _____ Date: _____ Time: _____

REMARKS:

Log-In-Review: ☒ Headspace ☒ N/A

Dry Weight Basis Required ☒
 TRRP Report Required ☒
 Check if Special Reporting Limits Are Needed ☒

Carrier # _____

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: BCC, Inc.-Lubbock

Date/ Time Received: 05/25/2018 03:30:00 PM

Work Order #: 587349

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:


Brenda Ward

Date: 05/29/2018

Checklist reviewed by:


Brandi Ritcherson

Date: 05/29/2018