# NM OIL CONSERVATION. ARTESIA DISTRICT AUG 1 6 2016 RECEIVED talonlpe.com • 866.742.0742 TADOL OL CONSERVATION.

# Closure Report Energy Transfer Partners: CAL AB Launcher |2RP-2778|

August 15, 2016

**Prepared By:** 

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

**Prepared For:** 

**Energy Transfer Partners** 

1RP - 2778

talonlpe.com • Toll Free: (866) 742-0742

Mr. Mike Bratcher **NMOCD District II** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject: Remedial Activities and Closure Report Energy Transfer Partners CAL AB Launcher

Dear Mr. Bratcher

Energy Transfer Partners (Energy Transfer) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

# Site Information

The Regency Cal AB Launcher release is located approximately thirty-four (34) miles south of Carlsbad, New Mexico. The legal location for this site is Unit Letter A, Section 8, Township 26 South, and Range 29 East in Eddy County New Mexico. More specifically the latitude and longitude for the release are 32.062333 North and -104.001110 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Dev-Pima complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is made up of Holocene to upper Pleistocene alluvium. Drainage courses in this area are normally dry.

# Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 75-feet below ground surface (BGS). The referenced ground water data is presented in Appendix II. Given the proximity to surface water in this area the ranking for this site is a **20** based on the following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	200-1000'

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 1,000 mg/kg for total chlorides.

# **Incident Description**

On January 10, 2015 a vacuum truck driver attempted to load condensate into the Regency pipeline. The driver attached the hose to the wrong valve and sprayed condensate in an approximate 200-foot radius. Subsequent precipitation events in the area caused the fluid to flow down gradient across a Kinder Morgan Right-of-Way (ROW) and into a draw in the direction of the Pecos River.

Upon notification of proper Regency personnel, Talon was contacted to conduct an emergency response and to contain the release. Oil sorbent booms were placed in the draw at the end of the flow path in the draw, at an additional location further down the draw and around the sumps on location to insure containment should a large precipitation event occur. The heavily impacted material on the upper launcher location (including the soil on Kinder Morgan's ROW) was scraped up and stockpiled. The stockpiled soil was covered in plastic and berms were constructed around the stockpile to insure nothing would run-off. A vacuum truck was then dispatched to recover the free standing fluid in the sumps.

Once the impacted area was contained and it was determined that the river was not impacted, Talon personnel conducted soil sampling at the launcher location as well as soil and rain water sampling within the draw (which has since evaporated) where it had pooled.

# **Initial Remedial Actions**

Per BLM request the soil samples were analyzed for TPH, BTEX, Chlorides, and RCRA 8 Metals Total analysis. The analysis of RCRA Metals indicated concentrations that were of concern to the BLM. At the direction of the BLM additional background sampling was performed utilizing previous analytical methods to demonstrate that the concentration of metals was widespread, pre-existing, and not exclusively associated with the Regency release (laboratory reports for both events can be found in Appendix VI. The laboratory analysis of the background samples was' provided to the BLM. Following several discussions on a course of action to take with regard to the indicated heavy metal contamination, the BLM in a letter dated January 15, 2016 agreed that the background level of heavy metals were "comparative" to the concentration of metals found in the flow path.

In the letter dated January 15, 2016 the BLM provided a decision stating that "...The heavy metals are still an environmental concern and a separate investigation into their origin will be conducted..." Concluding additionally that "...Regency release cleanup can proceed..." with the following stipulations:

1. That Regency comply with all State and Federal requirements regarding cleanup and waste disposal activities.

- 2. That Regency provide a disposal plan to the BLM detailing testing and disposal options.
- 3. That Regency will gain the approval of the Work Plan from the NMOCD and that approval be forwarded to Ms. Terry Gregston of the BLM prior to beginning work on the final stages of the cleanup.

Initially, with permission of the BLM, the hydrocarbon and chloride contamination in the draw was excavated to a depth of 1-foot bgs. All of the excavated material was stockpiled on a poly liner on the upper launcher spill location. Following this excavation, confirmation samples were taken within the flow path and at four background locations (sample locations are shown on the site map in Appendix I). These soil samples were analyzed for TPH, BTEX, Chlorides and the RCRA 8 Metals using the TCLP analytical method. The TCLP was used to help characterize the metals in the contaminated soil to aid in determining the proper disposal method for the material. The sample locations are labeled C-1 through C-6 and the background locations are labeled BC-1 through BC-4. Additionally, a composite of the spoils pile was also taken for waste disposal characterization.

# Laboratory Results

See Appendix VI for complete report of laboratory results.

Sample ID	 Depth	BTEX	Chlorides	ТРН	ТРН
	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
				GRO	DRO
S-1	0	94.4	· 247	2870	13300
S-2	0	59.4	474	1960	9110
S-3	0	ND	5200	ND	588
S-4	0	ND	10.7	ND	ND
S-5	0	ND	828	20.1	1670
S-6	0	ND	1720	ND	80.1
S-7	0	ND	4670	ND	55.3
S-1 D	0	0.00898	1870	62.9	1660
S-2 D	0	0.00455	353	527 ,	11500
S-3 D	0	0.0713	62.2	1140	13600
S-4 D	0	ND	45	ND	18.6
S-5 D	0	0.03	371	809	13500
S-6 D	0	0.00619	937	98.5	3450

1/29/2015 through 2/23/2015

(ND) Analyte Not Detected

(D) Draw

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# 10/29/2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	86.6	149	389	9720
S-2	0	0.327	74.4	252	4680
S-3	0	ND	ND	ND	ND
S-4	0	ND	ND	I ND	ND
S-5	0	0.536	114	389	7040
S-6	0	ND	1520	ND	ND
S-7	0 .	ND ,	4370	ND	ND
S-1 D	0	0.0518	23.1	85.8	691
S-2 D	0	0.729	69.2	306	7850
S-3 D	0	0.0825	823	118	2850
S-4 D	0	ND	499	ND	ND
S-5 D	0	ND	1160	ND	ND
S-6 D	0	ND	1210	, ND	ND

# 11/18/15 Confirmation Sampling (Draw)

Sample ID	Depth (feet)	BTEX	Chlorides	Total TPH	Hg	As	Ba	Cd	Cr	Pb	Se	Ag
C-1	1	ND	3.74	ND	ND	ND	0.364	ND	ND	ND	ND	ND
C-2	1	ND	10.4	ND	ND	ND	0.242	ND	ND	ND	ND	ND
C-3	· 1	ND	15.1	ND	ND	ND	0.308	ND	ND	ND	ND	ND
C-5	1	ND	3.25	ND	ND	ND	0.366	ND	ND	ND	ND	ND
C-6	1	ND	ND	ND	ND	ND	0.632	ND	ND	ND	ND	ND
BC-1	1	ND	2.66	ND	ND	ND	0.269	ND	ND	ND	ND	ND
BC-2	1	ND	ND	ND	ND	ND	0.279	ND	ND	ND	ND	ND
BC-3	1	ND	2.58	ND	ND	ND	0.214	ND	ND	ND	ND	ND
BC-4	1	ND	ND ;	ND	ND	ND	1.36	ND	ND	ND	ND	ND

# Confirmation Sampling (Location)

Sample ID	Depth (feet)	BTEX	Chlorides	Total TPH	Hg	As	Ba	Cd	Cr	Pb	Se	Ag
C-1	1	0:0073	259	1250	ND	0.254	ND	ND	ND	ND	ND	ND
C-1	1.5			17.9		0.234						
C-2	1.5	ND	106	33.8	ND	ND	0.3	ND	ND	ND	ND	ND
C-3	1	ND	24.5	ND	ND	ND	0.402	ND	ND	ND	ND	ND
C-4	1	ND	3.12	ND	ND	ND	0.705	ND	ND	ND	NĎ	ND
C-5	1	ND	303	ND	ND	ND	0.318	ND	ND	ND	ND	ND
C-6	1	ND	748	ND	ND	ND	0.186	ND	ND	ND	ND	ND
C-7	1	ND	1050	ND	ND	ND	0.136	ŊD	ND	ND	ND	ND
C-7	1.5		629 :					-;-				
(ND) An	alyte No	t Detected	d	•	4							

(ND) Analyte Not Detected

(--) Analyte Not Tested

# Waste Disposal

As shown by the TCLP analysis of the stock piled soil excavated from the draw, the soil removed from this site was not characterized as hazardous waste. The laboratory results from the stockpile sample along with a form C-138 was sent to Lea Land, LLC for review and approval of waste acceptance. Upon approval of the C-138 all excavated material was hauled to Lea Land, LLC (an NMOCD approved solid waste disposal facility) for disposal. A copy of the approved C-138 and disposal manifests can be found in Appendix IV.

Generated Soil Stockpile

Sample ID	Depth (feet)	BTEX	Chlorides	Total TPH	Hg	As	Ba	Cd	Cr	Pb	Se	Ag
SP-1	Composite	ND	• 24	ND	ND	ND	0.399	NĻ	ND	ND	ND	ND

(ND) Analyte Not Detected

# **Remedial Actions Taken**

- The impacted area within the draw was excavated to a depth of 1-foot BGS. Confirmation soil samples were taken at the bottom of the excavation to insure that all impacts above NMOCD RRAL'S was successfully removed.
- Upon receipt of permission from BLM and NMOCD, the draw was backfilled with top soil, contoured to match the surrounding terrain, and seeded with BLM #1 seed mixture. Erosional control berms were also constructed per BLM stipulations.
- The impacted area on location was excavated to a depth of 1-foot BGS. Confirmation soil samples were taken at the bottom of the excavation at sample locations C-1 through C-7.
- The laboratory results from the confirmation soil sampling carried out on the location showed that the areas in the vicinity of sample locations C-1 and C-7 were above NMOCD RRAL'S for TPH and Chlorides respectively. These areas further were excavated to a depth of 1.5-feet BGS and resampled.
- Following the second round of confirmation sampling on the location, laboratory results indicated that all soil above NMOCD RRAL's had been successfully removed.
- Upon receipt of permission from BLM and NMOCD the location was backfilled with caliche and berms were constructed to prevent any future releases from entering the draw.

# Closure

On behalf of Energy Transfer Partners we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Shelden Hirchcock

Project Manager

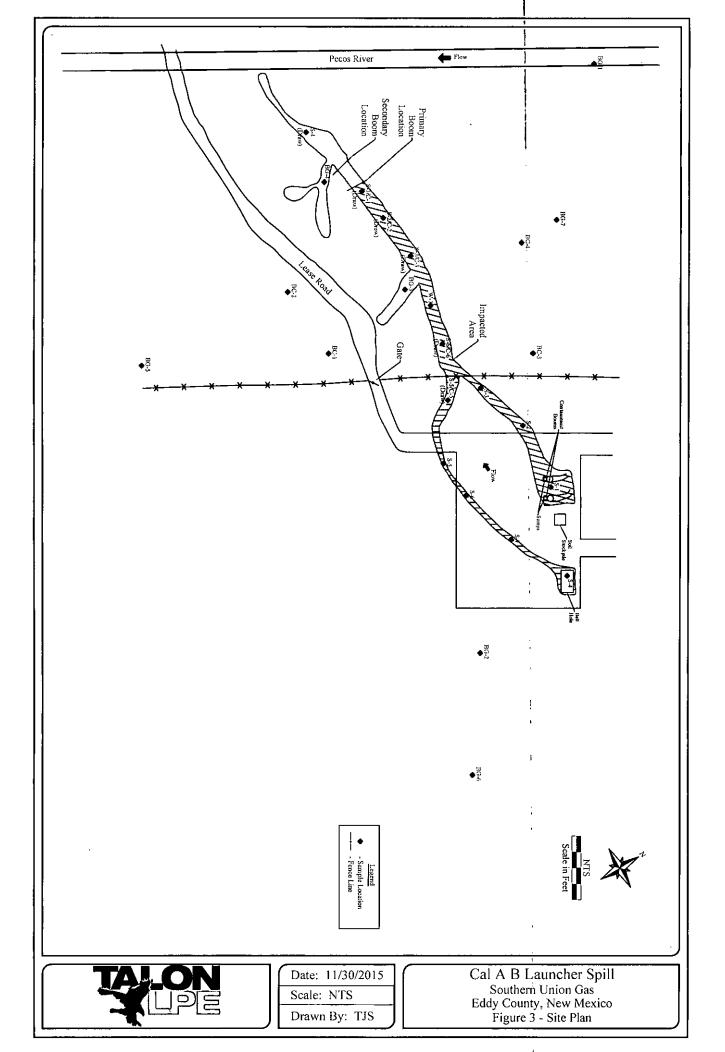
David J. Adkins District Manager

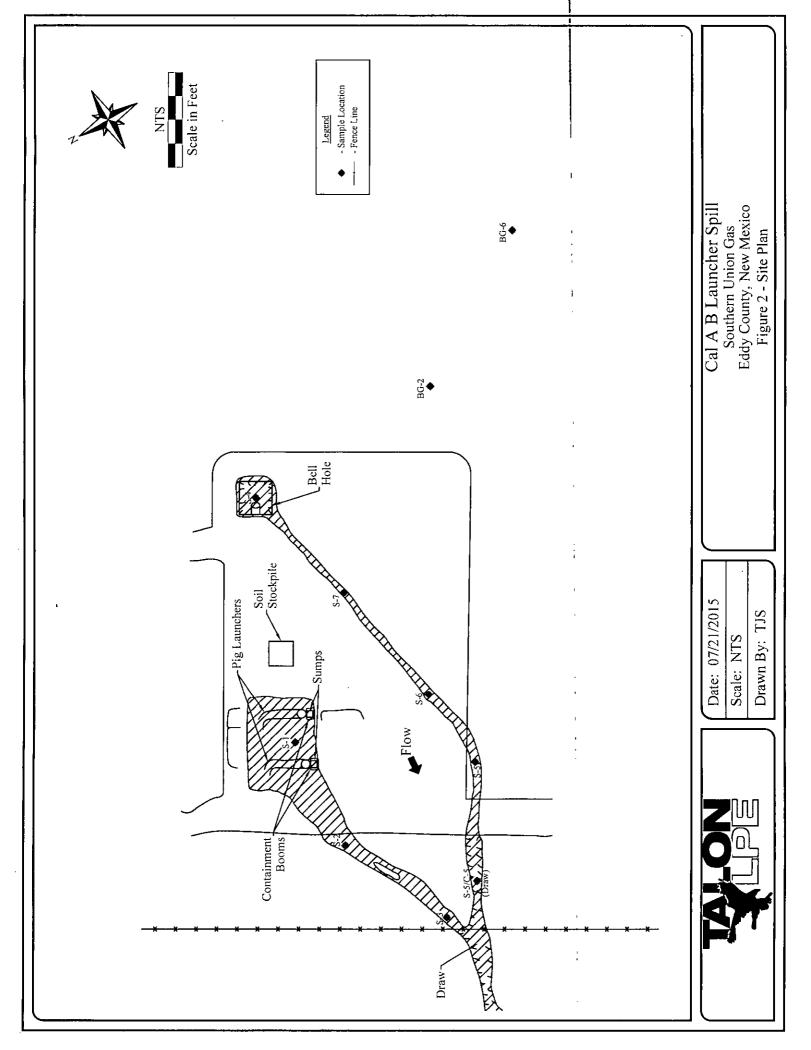
Attachments

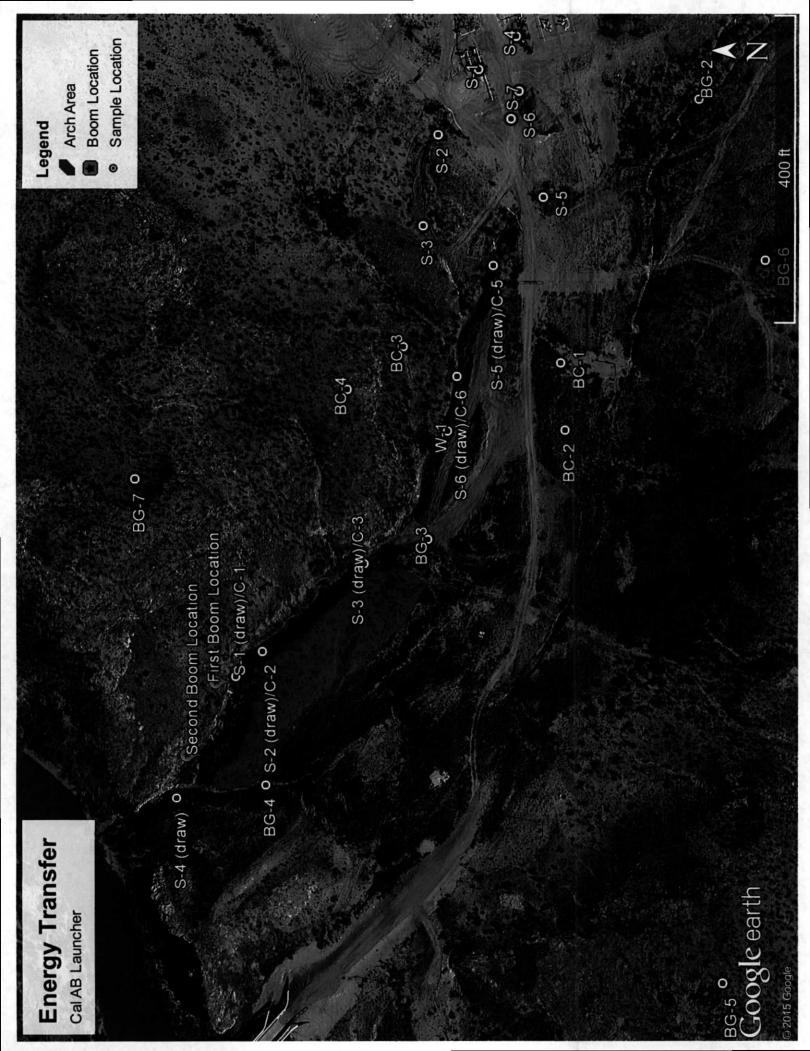
Appendix I	Site Plan
Appendix II	Groundwater Data
Appendix III	Initial & Final C-141
Appendix IV	Approved C-138 & Disposal Manifests
Appendix V	Seed Label
Appendix VI	Laboratory Reports

# **APPENDIX I-SITE PLAN**

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# **APPENDIX II-GROUNDWATER DATA**

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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)		-						3=SW 4=SE gest) (N/	) AD83 UTM in m	eters)	(	In feet)	
· ·	POD										·····	· · · · ·		
POD Number	Sub- Code basin Cor			QC		- т		Dne	X	Y	D:-4			Water
C 03507 POD1		ED	1	3			<u>ws</u> 26S	29E	593064	3548313 🚯	Distance 1445		<u>vvater</u> 78	Column 62
C 03508 POD1	CE	Đ	1					29E	593063	3548361 🚱			75	65
C 02894	CE	Đ	2	2	3 12	22	26S	28E	590458	3547061* 🚭		240		
C 02160 S8	E	Đ	2	3 :	3 1:	2 2	26S	28E	590056	3546653* 🚭	4508	200	120	80
<u>C_01668</u>	E	Ð		3 :	3 1:	22	26S	28E	589957	3546554* 🚱	4630	250	100	150
										Avera	age Depth to	Water:	93	feet
											Minimum	Depth:	75	feet
								•			Maximum	Depth:	120	feet
Record Count: 5												·		
Basin/County Search														
County: Eddy														
UTMNAD83 Radius Se	earch (in meters)	<u>):</u>												
Easting (X): 59441	6		Nor	thir	ıg (Y	ን:	354	7801		Radiu	<b>s:</b> 5000			

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# **APPENDIX III-INITIAL C-141& FINAL C-141**

				OIL CONSE ARTESIA DIST						
District 1 1625 N. French Dr., Hobbs, NM 88240 District 11	State of Energy Minerals	New Mex and Natura	-	JAN 3 0 2	Form C-141					
811 S. First St., Artesia, NM 88210 District III	Oil Conser									
Liouo Rio Brazos Road, Aztec, NM 87410 District IV	1220 Sout			RECEIVED to appropriate District Office i RECEIVED						
1220 S. St. Francis, Dr., Santa Fe, NM 87505		e, NM 875		1						
FAB1503426369 Rela	ase Notification	ion and Corrective Action								
NAB 1503426578	<u></u>	OPERA		🛛 🖾 Ini	tial Report 🔲 Final Report					
Name of Company Regency Gas	9875		hel Johnson No. 325-514-263							
Address P.O. Box 1226 Jal, NM 88252 Facility Name: Cal AB Launcher			vo. 323-314-202		er					
Surface Owner NMBLM	Mineral Owner			APIN						
	LOCATIO		FASE		·····					
Unit Letter   Section   Township   Range		/South Line	Feet from the	East/West Line	c County					
"A" 8 265 29Ē					Eddy County					
<u></u>	Latitude 32.00215	8 Longitud	e -103.973977							
	NATURE	OF REL	EASE							
Type of Release: Condensate		Volume of	Release: Unknow		e Recovered: 0					
Source of Release:		Date and 1 1/10/15	lour of Occurrenc	ce: Date ar 1/10/15	nd Hour of Discovery:					
Was Immediate Notice Given?	No 🗌 Not Required	IF YES, To	Whom?							
By Whom?		Date and i	-lour	<u>,</u>						
Was a Watercourse Reached?			olume Impacting	the Watercourse.						
If a Watercourse was Impacted, Describe Fully.		·	<u>-</u>	<u>_</u>						
Describe Cause of Problem and Remedial Action pipeline. Driver attached the hose to the wrong Regency personnel. The affected area was not the reaching the ravine connecting to the Pecos Riv crew were dispatched. The affected soil has been stockpile set on plastic and covered with plastic	valve and sprayed conde remediated in a timely ma er. Upon the notification in sampled, area has been	insate within a anner; therefo as to Rachel J a assessed, sur	approx 200ft ra re creating a flow ohnson, Regency mps and containm	dius. Driver may path crossing the Environmental Spents emptied, bu	de notifications to the appropriate e Kinder Morgan ROW and finally specialist for the area, Talon and a loys placed in the ravine, and					
Describe Area Affected and Cleanup Action Ta been placed in the ravine to prevent further dam	ken.* Runoff from the pi	ping ran into t	the ravine and is 1	000ft from teact	ing the Pecos River. Buoys have					
I hereby certify that the information given above regulations all operators are required to report a public health or the environment. The acceptan should their operations have failed to adequately or the environment. In addition, NMOCD accepted federal, state, or local laws and/or regulations.	nd/or file certain release ce of a C-141 report by t y investigate and remedia	notifications i he NMOCD n ite contaminat	and perform corre marked as "Final F tion that pose a the	ctive actions for Report" does not reat to ground w	releases which may endanger relieve the operator of liability ater, surface water, human health					
			OIL CON	ISERVATIO	N DIVISION					
signature: Kachel Johnso	h			4						
Printed Name: Rachel Johnson		Approved by	y Environmental S	Specialist: ( /	uka					
Title: Environmental Specialist		Approval Da	ate: 2/2/15	Expirati	on Date:					
E-mail Address: rachel.johnson@regencygas.c										
Date: 1/30/15 Phone: 325-51			EMEDIATION	PBOPOSAL	. NQ					
* Attach Additional Sheets If Necessary	à	ATER TH/	ana: <u> </u>		2RP-2775					

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# **APPENDIX IV-**

# **APPROVED C-138 & DISPOSAL MANIFESTS**

District 1 1625 N. French Dr., Hobbs, NM 88240 District II S11 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztoc, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Form C-138 Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 "Surface Waste Management Facility | Operator and Generator shall maintain and make this documentation available for Division | inspection.

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Generator Name and Address: Ŧ. Energy Transfer Partners: 600 N. Marichfeld Str. Ste 700 Midland, TX 79701 **Originating Site:** 2 **Cal AB Launcher** 3. Location of Material (Street Address, City, State or ULSTR): A-S8-T26S-R29E 4. Source and Description of Waste: Excavated soil generated during the remediation of a condensate release. 910 yd3 / bbls Known Volume (to be entered by the operator at the end of the haul) **Estimated Volume** yd<sup>2</sup> / bbls **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS** 5 \_, representative or authorized agent for \_\_\_\_\_\_ Bnergy Transfer Partners Johnnie Bradford I. do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ς, RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with nonexempt waste. Operator Use Only: Waste Acceptance Frequency . Monthly . . Weekly . Per Load CRCRA Non-Exempt: Oil field waste which is non-bazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261,21-261,24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) 🔲 MSDS Information 🖾 RCRA Hazardous Waste Analysis 📋 Process Knowledge 🛄 Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS 1. Johnua Gradford, representative for <u>Energy Terros for Portner 1</u> do hereby certify that popresentative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. 5. Transporter: Talon/LPE (0308669) OCD Permitted Surface Waste Management Facility Name and Facility Permit #: Lea Land, LLC WM-1-035 MM 64, HW4 62/180 East, Carlsbad, NM 88220 Address of Facility: Method of Treatment and/or Disposal; D Landfill Evaporation Injection Treating Plant II Landfarm Other Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record) TITLE: MKg Manager DATE: 1/21/16 pralun Hall PRINT NAME: 105-519-1187 arales wall TELEPHONE NO.: \_\_\_\_ SIGNATURE; Surface Waste Management Facility Authorized Agent

# Energy Transfer Weights Statement - Total Received

Reading Date	Manifest			117. 1. 1. 1. A. 1. 1. A.	XII 4 8 4 470 A
Receive Date	Number	Lease N	ame	Weight (lbs.)	Weight (Tons)
3/15/2016	113779	Cal A B Launcher		36,460	18.23
3/15/2016	113780	Cal A B Launcher		40,720	20.36
3/15/2016	113781	Cal A B Launcher		36,980	18.49
3/15/2016	113782	Cal A B Launcher		37,280	18.64
3/15/2016	113783	Cal A B Launcher		38,120	19.06
3/15/2016	113784	Cal A B Launcher		39,460	19.73
3/15/2016	113785	Cal A B Launcher		39,180	19.59
3/15/2016	113786	Cal A B Launcher		37,760	18.88
3/15/2016	113809	Cal A B Launcher		39,880	19.94
3/15/2016	113810	Cal A B Launcher		42,040	21.02
3/15/2016	113811	Cal A B Launcher		38,720	19.36
3/15/2016	113812	Cal A B Launcher		41,720	20.86
3/15/2016	113813	Cal A B Launcher		42,360	21.18
3/15/2016	113814	Cal A B Launcher		37,920	18.96
3/15/2016	113815	Cal A B Launcher		39,260	19.63
3/15/2016	113816	Cal A B Launcher		35,920	17.96
3/16/2016	113850	Cal A B Launcher		86,060	43.03
3/16/2016	113851	Cal A B Launcher		87,520	43.76
3/16/2016	113852	Cal A B Launcher		78,4 <b>0</b> 0	39.20
3/16/2016	113853	Cal A B Launcher		74,860	37.43
3/16/2016	113854	Cal A B Launcher		72,980	36.49
3/16/2016	113855	Cal A B Launcher		82,520	41.26
3/16/2016	113856	Cal A B Launcher		73,780	36.89
3/16/2016	113857	Cal A B Launcher		40,920	20.46
3/17/2016	113899	Cal A B Launcher		158,620	79.31
3/17/2016	113900	Cal A B Launcher		39,040	19.52
3/17/2016	113901	Cal A B Launcher		41,960	20.98
3/17/2016	113902	Cal A B Launcher		40,240	20.12
3/17/2016	113903	Cal A B Launcher		40,340	20.17
3/17/2016	113904	Cal A B Launcher		40,340	20.17
3/17/2016	113905	Cal A B Launcher		43,680	21.84
3/17/2016	113906	Cal A B Launcher		38,820	19.41
			Cal A B Launcher	1,663,860	831.93

<sup>1,663,860</sup> Cal A B Launcher

lbs.

### Lea Land Landfill New Mexico Mile Market # 64 US Highway 62/180

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30 miles East of Carlsbad, NM \* (505) 887-4048

Tons

# **Energy Transfer - Caliche**

Receive Date	Lease Name	Weight (Tons)
3/15/2015	Cal A B Launcher	330.42
	Cal A B Launcher	330.54
3/17/2015	Cal A B Launcher	399.05
		1,060.01

Tons

### Lea Land Landfill New Mexico Mile Market # 64 US Highway 62/180 30 miles East of Carlsbad, NM \* (505) 887-4048

•		· · · · · · · · · · · · · · · · · · ·							
		LEA LAND DISPOSA MILE MARKER #64 US HWY 62/180 · 30 MILES				ŧ		KIC	0
		LEA LA 1300 WEST MAIN STREET • OKLAHOM	ND, LLC	PHONE (	(405) 2	36-425	, M	ann	U
N	ÔŇ	HAZARDOUS WASTEN MANIFEST	113779	1. PA	GE	OF	2. TRAIL	ER NO.	3327
G		PHONE NO.	rra Blvd. #400 State		ZIP	3/	K-UP DATE 15/2016 RCC I.D. NO		······································
Ē		(210) 403-7300     San Antonio       7. NAME OR DESCRIPTION OF WASTE SHIPPED:	TX	782 8. CON No.			9. TOTAL UANTITY	10. UNIT Wt/Vol.	II. TEXAS WASTE ID #
N		<ul> <li>Non-Regulated, Non Hazardous Waste</li> </ul>		1	Ch	-			
E		c		<u> </u>		$\frac{1}{1}$	<u> </u>		
R		a.WT: 3(1,441) .34,880 12. COMMENTS OR SPECIAL INSTRUCTIONS: J.M. GALEB LAUNCHER job: 701583144.02			<u>}</u>		3. WASTE P	ROFILE N	0.
A T		Image: CALAB     Image: CALAB       14.     Image: CALAB       NAME     PHONE NO	GENCY OR SPIL	L, CO	NTAC	  :   	24-HOUR	EMERGE	NCY NO.
c	)	Kin Staughter 575-887-40 15.GENERATOR'S CERTIFICATION: 1 Hereby declare tha shipping name and are classified, packed, marked, and labeled, and are in a international and national government regulations, including applicable st	t the contents of this co all respects in proper co	ondition f	or trans	port by	highway acc	ording to a	pplicable
F		PRINTED/TYPED NAME	SIGNATURE						DATE
		I6.       TRANSPORTER (1)         NAME:       TALON LPE         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:         IN CASE OF EMERGENCY CONTACT:       ROBBIE DEROSIER         EMERGENCY BHONE.       (512) 673-7429		ERGENC			TER (2)	<del></del>	
F T F S		PRINTED/TYPED NAME 1963E M Garlie	EMERGENCY PH 19. TRANSPO PRINTED/TYPEJ 5/2016 SIGNATURE	RTER		cknow	<u> </u>	eccipt of u	nateria)
D	F	Lea Land, LLC Mil	le Marker 64, U Miles East of C		•	) · · ·	PHONE:	-	7-4048
I S P O	A C I L	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS						
S A	L I T V	21. DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby facility is authorized and permitted to receive such wastes.	certify that the above	described			lelivered to th	nis facility,	that the
	Y	AUTHORIZED SIGNATURE	CELL NO. TE: COPIES 2 & 3			DATE 3/	15/2018		ME 1.1D COPIES 4 & 5
							1101101	J	

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 + 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048									
	1300 WEST MAIN ST	LEA LA		'HONE (	405) 236	5-4257	I.B		
NO	NªHAZARDOUSNWA'STJE/M/A'NIR	EST NO	113780	1. PA	GE	0F 2. TRA	ILER NO.	#D4	
G	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS 800 E. Sontern	a Blvd, #400			3/15/2016			
	PHONE NO.	CITY	STATE		ZIP E	5. TNRCC I.D. I	10.		
Е	(210) 403-7300	San Antonio	тх	782					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON No.	TAINER J Type			11. TEXAS WASTE ID #	
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	aste		1	СМ	-	T		
ł	b.								
Е	c.								
[ _	dWI: 10402			; 					
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	a.m.		<u> </u>		13 WASTE	PROFILE N		
A	CALEB LAUNCHER job: 70158314							<b>.</b>	
	المناد المحمد	SE OF EMERG	ENCY OR SPIL	L, CO	NTAC				
Т	NAME Kin Slaughter	PHONE NO 575-887-404	8 <sup>.,</sup>		-	24-HOU	JR EMERGE	NCY NO.	
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in al	l respects in proper co	ndition fo	or transp	ort by highway a	iccording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE		,	DATE			
T	16. TRANSPORTER (1)		17.	TI	RANSI	PORTER (2)		<u></u>	
R	NAME: TALON LPE		NAME:		1				
A N	TEXAS I.D. NO.		TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT: ROB		· IN CASE OF EME	RGENC		Γልር" <b>Τ</b> ·			
	1	2) 873-7429	EMERGENCY PH						
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt of material	19. TRANSPO		(2): A¢	knowledgment o	f receipt of n	naterial	
Ē	PRINTED/TYPED NAME/CrustTo	t	PRINTED/TYPEI	) NAME					
R S	TOT T	3/15	2016				DATE		
<u> </u>	SIGNATURE Alude Ko	DATE	SIGNATURE				DATE		
l	Lea Land, LLC	ADDRESS: Mile	Marker 64, U.	Տ ես	N 621	180		37-4048	
DF			files East of Ca		- 1		575 00	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	DED. UT VO		1						
P I WM-01-035 - New Mexico									
	21. DISPOSAL FACILITY'S CERTIFIC		ertify that the above of	iescribed	wastes	were delivered to	o this facility,	that the	
L Y AUTHORIZED SIGNATUREA CELL DATE T							TI	ME	
	Vanter Vonzaly 3/15/2018 11:15								
GENE	RATOR: COPIES 1 & 6	DISPOSAL SIT							

	•								
•	LEA LAND DIS MILE MARKER #64 US HWY					1	KIC	0	
	1300 WEST MAIN ST		ND, LLC A CITY, OK 73106 • 1	PHONE (	405) 23	36-4257	·mi	ni	
NŐN	HAVARDOUSNYASTEEMANII	EST NO	113781	1. PA	GE	OF 2. TRAII	.er no.	321	
G	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS 800 E. Sonten	ra Blvd. #400		1	5. PICK-UP DATE			
	PHONE NO.	CITY	STATE		ZIP	6. TNRCC I.D. NC			
E	(210) 403-7300	San Antonio	тх	782	58				
1 87 1 93	7 NAME OR DESCRIPTION OF WASTE SHIPPED 8. CONTAINERS 9. TOTAL 10. UNIT 1								
N								WASTE ID #	
	b.			}	<b> -</b>	<u></u>			
Е	c.			<b> </b>		<u>                                       </u>			
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R	36,980		<u> </u>	<u> </u>		ļ <u> </u>			
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: GALED-LAUNCHER job: 70158314	4.01				13. WASTE P	ROFILE N	0.	
î	CALA-B IN CA	SE OF EMERG	FNCY OF SPIL		VTAC	<u>   </u>		<u> </u>	
т	NAME	PHONE NO	ENCT ON STIL		TIAC		EMERGE	NCY NO.	
	Kin Slaughter	575-887-404		<u></u>					
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in a	I respects in proper co	ndition fo	or trans	port by highway acc	ording		
R	PRINTED/TYPED NAME		SIGNATURE					DATE	
Т	16. TRANSPORTER (1)		17.	TI	RANS	PORTER (2)			
R A			NAME:						
N	TEXAS I.D. NO.		TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT: ROB	BIE:DeROSIER	IN CASE OF EMI	RGENC	 אַ כסאָ	TACT:			
0	EMERGENCY PHONE: (51:	2):873-7429	EMERGENCY PH	<u>IONE:</u>			<u></u>		
R T	18. TRANSPORTER (1): Acknowledgment	- ·	19. TRANSPO	RTER	(2): A' 	cknowledgment of t	receipt of m	ateria]	
E R	PRINTED/TYPED NAME	Bamus	PRINTED/TYPE	O NAME					
s	SIGNATURE Aluero Pres	DATE 3/15	2018 SIGNATURE			E	DATE		
		ADDRESS:			:	PHONE:			
DF	Lea Land, LLC	ſ	e Marker 64, U		* (	· (	575-88	7-4048	
ΙΑ	PERMIT NO.	<u> </u>	Ailes East of C 20. COMMENTS	a <u>ns</u> bac	<u>1, 1818</u>	/1			
S C P I	WM-01-035 - New Mex	tico .							
OL SI AT	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		certify that the above of	described	wastes	were delivered to the	his facility,	that the	
ΪŸ	AUTHORIZED SIGNATURE	<u> </u>	CELL NO.		Ţ	DATE	TI	ME	
	Match N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
GENER	ATOR: COPIES 1 & 6	ODISPOSAL SIT	E: COPIES 2 & 3		1	TRANSI	OR		

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
	1300 WEST MAIN ST		CITY, OK 73106 • H	PHONE (	(405) 23	6-4257	G,	emi		
NON	FILAZARDOUS WAS TERMANI	EST NO	[13782	I. PA	GE		2. TRAIL	ER NO.	322	
G	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS 800 E. Sonterr	a Blvd. #400				-UP DATE 5/2016			
	PHONE NO.	CITY	STATE		ZIP	6. TNRC	CC I.D. NO			
E	(210) 403-7300	San Antonio	ТХ	782						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON No.	TAINE j Type		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	N <sup>a.</sup> Non-Regulated, Non Hazardous Waste 1 CM									
	b.	- <u> </u>	·							
<sup>⊘</sup> ∙ <b>E</b>	c.			<u>├</u> ───						
R	WT: ZM DDD	<b></b>	<u>.                                    </u>	<u> </u>	<del>                                      </del>	-+				
	12. COMMENTS OR SPECIAL INSTRUCTIONS: GALEB LAUNCHER job: 70158314	4.0.1		<u> </u>	L;	13.	WASTE P	ROFILE NO	0.	
A	A CALAB									
Т	I4 IN CA NAME Kin Slaughter	PHONE NO 575-887-404		<u>,</u>	NIAC	1	24-HOUR	EMERGE	NCY NO.	
0	15 GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in al	l respects in proper co	ndition for	or transp	ort by h	ighway acc	ording to ap	pplicable	
R	PRINTED/FYPED NAME		SIGNATURE	·					DATE	
T	16. TRANSPORTER (1)		17.	T	RANS	PORT	ER (2)		<u></u>	
R A	NAME: TALON LPE		NAME:			!				
N S	TEXAS I.D. NO.		TEXAS I.D. NO.			•				
P	IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	ERGENC	Y CON	TACT:				
O R	EMERGENCY PHONE: (51, 18. TRANSPORTER (1): Acknowledgment of	2) 673-7420	EMERGENCY PH 19. TRANSPO		(2). 40	[	domant of		<u> </u>	
T E	PRINTED/TYPED NAME / Erilo R.J.	-			•	•		cccip		
R	PRINTED/TYPED NAME		PRINTED/TYPEI 2016.	O NAME		<u>`                                    </u>				
S	signature Emberto	DATE	SIGNATURE				F	ATE		
		ADDRESS:		о II.	(2)	100	PHONE:	<i>576</i> 00	7 4049	
DF	Lea Land, LLC		Marker 64, U. Ailes East of C.		-		ł	212-00	7-4048	
I A S C	PERMIT NO.	<u> </u>	20. COMMENTS				<u></u>		<u></u>	
ΡΙ	MM-01-035 - New Mexico									
OL SI AT	S I 21.DISPOSAL FACILITY'S CERTIFICATION: 1 Hereby certify that the above described wastes were delivered to this facility, that the									
LY	AUTHORIZED SIGNATURE		CELL NO.		D	ATE		ти	ME	
	antel Dhadua 3/15/2018 11.30									
GENER	GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORT									

		LEA LA	ND, LLC			$\wedge$			
		STREET • OKLAHOM		PHONE (	405) 236-4	257 ( ) e	mir	<u>ن (</u>	
Ő	NHIAVAARDQUS WASIUD MANI	FEST NO	113783	1. PA	GE_OF	2. TRAII	LER NO.	314	
~	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS	ra Blvd. #400		1	PICK-UP DATE 3/15/2016	;		
G	PHONE NO.	CITY	STATE		Ì	INRCC I.D. NC	),		
E	(210) 403-7300	San Antonio	TX	782	58				
	7. NAME OR DESCRIPTION OF WASTE SHIP	PED:		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wi/Vol.	11. TEXA WASTE ID	
N	a. Non-Regulated, Non Hazardous	Waste		1.	СМ		ļ — — — — — — — — — — — — — — — — — — —		
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C	c.			<u> </u>	1		<b></b>		
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2	12. COMMENTS OR SPECIAL INSTRUCTION	<u>S</u> ,		1	<u> </u>	13. WASTE P		0.	
	GALEB LAUNCHER job: 701583				ł			0.	
ł	IA INC	CASE OF EMERG	FNCY OR SPIL	L COI		l			
Г	NAME	PHONE NO	Inter on offic	<u>, co</u>		24-HOUR	EMERGE	N	
	Kin Slaughter								
15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable								فتريب فالأفا ومعادية فالمستقل	
)	shipping name and are classified, packed, marked,	and labeled, and are in a	the contents of this co Il respects in proper co	ondition for	or transport	by highway acc	cording to a	pplicable	
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	MILE MARKER #64 US H	SPOSA WY 62/180 • 30 MILES						AIC	U
	1300 WEST MAI	LEA LA	ND, LLC	PHONE (	405) 236	-4257	$\gamma$		
NON	HAZARDOUS WASTEMAN	HIGSTE NO	113784	J. PA	GEO	F	2. TRAII	LER NO. (	210
	3. COMPANY NAME	4. ADDRESS				PICK-L	JP DATE		) []
G	Energy Transfer Co.		rra Blvd. #400		ŀ	3/15/		·	
•	PHONE NO. (210) 403-7300	CITY San Antonio	STATE <b>TX</b>	782		. TNRCC	: I.D. NC	<b>).</b> ,	
E	7. NAME OR DESCRIPTION OF WASTE SHI			8. CON	TAINER		OTAL	10. UNIT	1
N	a. Non-Regulated, Non Hazardous	Waste	<u> </u>	No. 1	Type CM		NTITY	Wt/Vol.	WASTE II
	<u>ал — салада</u> b.			+					
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R	<u>34,44D</u>			<u> </u>	<u>.</u>		<u> </u>	<u> </u>	[
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: CALEB LAUNCHER job: 701583144.0 ( CALAB								Ο.
14. IN CASE OF EMERGENCY OR SPILL, CONTACT								NCY NO.	
Т	Kin Slaughter 575-887-4048								
0	15.GENERATOR'S CERTIFICATIO shipping name and are classified, packed, marked international and national government regulation	I, and labeled, and are in	all respects in proper co	ondition fo	or transpo	ort by hig	hway acc	cording to a	pplicable
R	PRINTED/TYPED NAME		international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, L						
		SIGNATURE		1				DATE	
T 16 TRANSPORTER (1) 17 TE									DATE
T R	16. TRANSPORTER (1	-	17.	T	RANSP	ORTE	CR (2)		DATE
R A	NAME: TALON LP	-	17. NAME:	T	 RANSP	PORTE	CR (2)		DATE
R A N S	NAME: <u>TALON LP</u> TEXAS I.D. NO.	<u>E</u>	17. NAME: TEXAS I.D. NO.		1		CR (2)		DATE
R A N S P	NAME: <u>TALON LP</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC	E DBBIE Derosief	17. NAME: TEXAS I.D. NO. IN CASE OF EM	ERGENC	1		CR (2)		DATE
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	1300 WEST MAI		LAND, LLC HOMA CITY, OK 73106 •	PHONE (	405) 236-4	257	min	i .
ŐŇ	HUAZIARDOUS WASTELMAN	NO	113785	1. PA	GEOF_	2. TRAIL	ER NO.	3/3
	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS	onterra Blvd. #400	┈┈┸╌╌╌		PICK-UP DATE 3/15/2016		
Į	PHONE NO.	СІТҮ	STATE		1.	NRCC I.D. NO	).	
	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHI	San Anto	nio TX		TAINERS	9. TOTAL	10. UNIT	
1	<sup>a.</sup> Non-Regulated, Non Hazardous	·····		No.	Type CM	QUANTITY	₩t/Vol.	WASTE ID #
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c				┼	i i	<u> </u>		<u> </u>
ć			<del>_</del>	┨		<b> </b>		
	12. COMMENTS OR SPECIAL INSTRUCTION	DNS:		<u> </u>	<u> </u>	13. WASTE P	ROFILE N	IO.
	CALEB LAUNCHER job: 70158	3144.0			1			
		CASE OF EM PHONE NO	ERGENCY OR SPIL	L, <u>CO</u>	NTACT	24 HOUR	EMERGE	
	Kin Slaughter	· 575-88			1	24-NOUR	EMERGE	ine r no.
15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
	shipping name and are classified, packed, marke international and national government regulation	d, and labeled, and a	re in all respects in proper co	ondition fo	or transport	by highway acc	ording to a	applicable
	shipping name and are classified, packed, marke international and national government regulation PRINTED/TYPED NAME	d, and labeled, and a	re in all respects in proper co	ondition fo	or transport	by highway acc	ording to a	applicable
	international and national government regulation	d, and labeled, and a ns, including applica	re in all respects in proper co ble state regulations, and are	ondition fo the same	or transport materials	by highway acc	ording to a	applicable EA LAND, LLC
	international and national government regulation PRINTED/TYPED NAME	d, and labeled, and a ns, including applica 1)	re in all respects in proper co ble state regulations, and are SIGNATURE	ondition fo the same	or transport materials	by highway acc previously appro	ording to a	applicable EA LAND, LLC
	International and national government regulation PRINTED/TYPED NAME 16. TRANSPORTER (1 NAME: <u>TALON LP</u> TEXAS 1.D. NO.	d, and labeled, and a ns, including applica 1) PE	re in all respects in proper co ble state regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO.	ndition for the same	r transport materials	by highway acc previously appro	ording to a	applicable EA LAND, LLC
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FACILI	international and national government regulation PRINTED/TYPED NAME 16. TRANSPORTER (1) NAME: <u>TALON LP</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RE EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledger PRINTED/TYPED NAME SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New N 21. DISPOSAL FACILITY'S CERTI	d, and labeled, and a ns, including applica (512) 873-7428 (512) 8	re in all respects in proper of ble state regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH ISTRANSPO PRINTED/TYPEI 3/15/2016. SIGNATURE Mile Marker 64, U 30 Miles East of C 20. COMMENTS	TI ERGENC HONE: RTER D NAME	ry 62/18 1 NM	by highway acc previously appro- DRTER (2) CT: cowledgment of r pHONE: 30, re delivered to th	receipt of m DATE 575-88	naterial

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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048									
	A 1300 WEST MAIN ST		CITY, OK 73106 • F	PHONE (	405) 236-4	1257 Ta	lon		
NO	A HAVARDOUS WAS DE MANIE	EST NO	113786	1. PA	GEOF	2. TRAII	ER NO.	30901	
G	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS 800 E. Sonten	a Blvd. #400		5.	PICK-UP DATE 3/15/2016		-	
	PHONE NO. (210) 403-7300	CITY San Antonio	STATE TX	782		TNRCC I.D. NO	).		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE	I SD:		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	a. Non-Regulated, Non Hazardous W	aste		• 1	СМ				
E	b.				ļ				
	c. d.WT: 27171, 7		<u> </u>						
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P			
A	CALEB LAUNCHER job: 70158314					IS. WASLEP	KOFILE N	U.	
		ASE OF EMERG	ENCY OR SPIL	L, CO!	NTACT	24 UOUR	EMERGEI		
Т	Kin Slaughter	575-887-404	8						
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	id labeled, and are in al	l respects in proper co	ndition fo	or transpor	t by highway acc	ording to ap	plicable	
R	PRINTED/TYPED NAME		SIGNATURE	TURE DATE					
			17.	TRANSPORTER (2)					
T R	16. TRANSPORTER (1)		NAME:	11	XANOFU )	JRI E.K. (2)			
A N	TEXAS I.D. NO.		TEXAS I.D. NO.		-				
S P	IN CASE OF EMERGENCY CONTACT: ROB	BIE DeROSIER	IN CASE OF EME	RGENC	 Y CONTA	CT:			
Ō		2) 673-7429	EMERGENCY PH						
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPO		(2): Ackr	iowledgment of i	eceipt of m	aterial	
E R	PRINTED/TYPED NAME Bill Rig	35	PRINTED/TYPED	) NAME					
s	SIGNATURE DEC Freque	3/15	2016 SIGNATURE			<u>I</u>	DATE		
		ADDRESS:	• <u>••</u> ••••••		1	PHONE:			
DF	Lea Land, LLC		Marker 64, U. Ailes East of Ca		- 1	80,	575-88	7-4048	
I A S C P I	PERMIT NO. WM-01-035 - New Mey	20. COMMENTS							
OL SI AT	S 1 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the								
L Y AUTHORIZED SIGNATURE CELL NO. DATE						TR	ME L'AR		
GENE									
GRINE.	GENERATOR: COPIES 1 & 6 O DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5								

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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048									
	1300 WEST MAIN ST	LEA LA		PHONE (	405) 236	-4257	annu	1	
iñio	NEHAZAARDOUSAWASTUP MAINUD	ST NO	L13809	1. <b>PA</b>	GELO	F 2. TRAII	ER NO	27	
		4. ADDRESS		-	5.	. PICK-UP DATE		<u> </u>	
G	Energy Transfer Co.	800 E. Sonten				3/15/2016			
	PHONE NO.	CITY	STATE		ZIP 6	TNRCC I.D. NO	).		
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPEI	<u>_San Antonio</u>	X	782 8. CON	58   TAINER	S 9. TOTAL	10. UNIT	11. TEXAS	
		J; 		No.	Туре	QUANTITY	WI/Vol.	WASTE ID #	
Ν	<sup>a.</sup> Non-Regulated, Non Hazardous Wa	ste		1	CM.	<u> </u>			
_	b.								
E	¢.				-				
n	WT: 20 000				<u>i</u>				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:			L	<u> </u>	13. WASTE P	ROFILE N	o.	
А	CALEB LAUNCHER job: 701583144	1.02							
			ENCY OR SPIL	L, COI	NTACI			<u>.</u>	
Т	NAME Kin Slaughter	PHONE NO 575-887-404	<b>o</b>		'	24-HOUR	EMERGE	NCY NO.	
0	15.GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, inc	Hereby declare that labeled, and are in al	the conten 1 respects		1		<u></u>		
R	PRINTED/TYPED NAME		SIGNATURE	•••••		·····		DATE	
					1				
Т	16. TRANSPORTER (1)		17.	TF	ANSP	ORTER (2)			
RA			NAME:						
N	TEXAS I.D. NO.		TEXAS I.D. NO.		Ì				
S P	IN CASE OF EMERGENCY CONTACT: ROBE		IN CASE OF EME	RGENC	Y CONT	ACT:			
O R	EMERGENCY PHONE: (512	) 673-7429	EMERGENCY PH			<u> </u>			
Т	18. TRANSPORTER (1): Acknowledgment o	f receipt of material	19. TRANSPOI	RTER	(2): Áck	nowledgment of i	receipt of m	aterial	
E R	PRINTED/TYPED NAME 1050 M	Gover	PRINTED/TYPEC	NAME	<u> </u>				
s	SIGNATURE J Julia -	DATE 3/15	2018. SIGNATURE		1	<b>_</b> I	DATE		
		ADDRESS:				PHONE:			
	Lea Land, LLC		Marker 64, U.	S. Hw	y 62/1		575-88	7-4048	
_	F	30 N	Ailes East of Ca	arlsbac	<u>l, NM</u>				
s	C PERMIT NO. I WM-01-035 - New Mexico 20. COMMENTS								
s	1 [21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the								
	AUTHORIZED SIGNATURE		CEL		DA			ME	
	Lantos Dorales 3/15/2018 3.00								
GEN	ENERATOR: COPIES I & 6 DISPOSAL SITE: C TRAN								

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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048									
	1300 WEST MAIN ST	REET • OKLAHOM		PHONE (	405) 236-4	257	1.B		
NQ	NEIVAZZARDOUSWASTIEMANIE	EST NO	113810	1. PA	GEOF	2. TRAIL	ER NO.	# 64	
	3. COMPANY NAME	4. ADDRESS 800 E. Sonter				PICK-UP DATE 3/15/2018			
G	Energy Transfer Co.	CITY	STATE			INRCC I.D. NO	<u>.                                    </u>		
	(210) 403-7300	San Antonio	TX	782		INKCC I.D. NO			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE				TAINERS	9. TOTAL	10. UNIT	11. TEXAS	
				No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #	
N	a Non-Regulated, Non Hazardous Wa	aste +-		1	CM				
	Ь.								
E	с		<u></u>		1				
	WT: 1 PDID		<u></u>						
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:				1 	13. WASTE P	ROFILE N	<u> </u>	
	CALEB LAUNCHER job: 70158314				,	15. 11. 151			
A	CALAB				<u> </u>				
	I4. IN CA	SE OF EMERG PHONE NO	ENCY OR SPIL	L, COI	NIACI	24-HOUR	EMERGE	NCY NO.	
Т	Kin Slaughter	575-887-40	18 .		1				
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in a	l respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE		ļ			DATE	
Т	16. TRANSPORTER (1)		17.	TI	RANSPO	ORTER (2)	······································		
R A	NAME: TALON LPE		NAME:		ļ				
N	TEXAS I.D. NO.		TEXAS I.D. NO.		ļ				
S P	IN CASE OF EMERGENCY CONTACT: ROB	BIE DeROSIER	IN CASE OF EME	RGENC	Y CONTA	CT:			
0	EMERGENCY PHONE: (51:	2) 873-7429	EMERGENCY PH	IONE;				_	
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt of material	19. TRANSPO	RTER	(2): Açknı	owledgment of 1	receipt of m	aterial	
E	PRINTED/TYPED NAME 2 GUS 170	7	PRINTED/TYPE	) NAME	į				
R S	Lange Cuit	3/15	2018		:		ATE		
	SIGNATURA-CUL		SIGNATURE				DATE		
ľ	Lea Land, LLC	ADDRESS:	Marker 64 U	S Hw	rv 62/18	PHONE:	575-88	7-4048	
<b>I</b>	F 30 Miles East of Carlsbad, NM								
I A S C P I	DEDMIT NO	••••••••••••••••••••••••••••••••••••••	20. COMMENTS		· /				
	I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
LY	AUTHORIZED SIGNATURE	<u> </u>	CELL NO.	-	DAT	E	Т	ME	
	and a should be	) and the second		.,		3/15/2018			
GENE	TOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5								

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	LEA LAND DIS MILE MARKER #64 US HWY				1		XIC	0		
	1300 WEST MAIN ST	REET • OKLAHOM	ND, LLC A CITY, OK 73106 • 1	PHONE (	405) 236-42		·m L	ni		
NO	SHAVARDOUS WASHED MANNIE	EST NO	113811	1. PA	GEOF_	2. TRAII	ER NO.	321		
_	3. COMPANY NAME	4. ADDRESS			1	CK-UP DATE				
G	Energy Transfer Co.	880 E. Sonter				V15/2016 NRCC I.D. NC	<u></u>			
	PHONE NO.	CITY	STATE			d. TRACC I.D. NO.				
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPE	San Antonio	<u> </u>	782 8. CON	TAINERS	9. TOTAL	10. UNIT	11. TEXAS		
				No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #		
N	<sup>a.</sup> Non-Regulated, Non Hazardous W		1	СМ						
i i	b.									
E	c									
	d.WT: y D MO +									
R				]						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: CALEB LAUNCHER job: 70158314					13. WASTE P	ROFILE N	0.		
A	CALAB									
	14. IN CA NAME	SE OF EMERG	ENCY OR SPIL	L, CO	NTACT	24 110110	EMERGE			
Т	Kin Slaughter	575-897-404	18		1	24-HOUK	EMERGE	NCT NU.		
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	I Hereby declare that d labeled, and are in al	the contents of this co I respects in proper co	ndition fo	or transport	oy highway acc	ording to ap	pplicable		
n	PRINTED/TYPED NAME	······································	SIGNATURE		1			DATE		
R				ļ						
Т	16. TRANSPORTER (1)		17.	TRANSPORTER (2)						
R	NAME:		NAME:		1					
A N	TALON LPE	、 者	TEXAS I.D. NO.							
S			]			~				
P O	IN CASE OF EMERGENCY CONTACT: ROE	BIE DeROSIER 2) 873-7429	IN CASE OF EME			1:				
R	EMERGENCY PHONE; (31. 18. TRANSPORTER (1); Acknowledgment		EMERGENCY PH 19. TRANSPO		(2); Ackno	wledgment of	receipt of m	aterial		
T E		Bumos	PRINTED/TYPEI			·	-			
R										
S	SIGNATURE CLUER Parts	DATE 3710	2016 SIGNATURE		:	<u> </u>	DATE			
		ADDRESS:			Ì	PHONE:				
DF	Lea Land, LLC		e Marker 64, U Ailes East of C		- (	0,	575-88	7-4048		
ΙΑ		<u>1, NM</u>								
S C P I	WM-01-035 - New Mex	20. COMMENTS		:						
ΟL	D L DISPOSAL FACILITY'S CEPTIFICATION UNder the description of the second secon									
S I A T	facility is authorized and permitted to receive such		centry that the above (	lescribed	wasies were	aenvered to t	ins racinty, i	uidt me		
ĹΫ́	AUTHORIZED SIGNATURE		CELL NO.		DATE	·	 מד	ME		
	Janto Jomah					3/15/2016	2	3.12		
GENER		DISPOSAL SIT	E: COPIES 2 & 3			· · · · · ·	ORTERS: (	COPIES 4 & 5		
-	ENERATOR: COPIES 1 & 6 TRANSPORTERS: COPIES 2 & 3 TRANSPORTERS: COPIES 4 & 5									

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048									
	1300 WEST MAIN ST	REET • OKLAHOM	· · · · · · · · · · · · · · · · · · ·	PHONE (	405) 236-4	257	emi	ni	
NON	HAZARDOUS WASHE MANIE	EST NO	113812	1. PA	GEOF	2. TRAI	LER NO.	322	
G	3. COMPANY NAME Energy Transfer Co.	4. ADDRESS	ra Blyd. #400		5. I	PICK-UP DATE 3/15/2016	3	Ş	
6	PHONE NO.	CITY	STATE			INRCC I.D. NO	).		
E	(210) 403-7300	San Antonio	ТХ	782	58				
-	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	aste	· · · · · · · · · · · · · · · · · · ·	1	CM.	20			
	b.	·····		- <u>-</u> ,					
E	C.								
	dWT: 11 mon		· • , •	ļ	<u>i</u>				
R	41720								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: CALEE LAUNCHER job: 70158314			r t	13. WASTE F	'ROFILE N	U.		
A	CALAB					ļ			
т	I4. IN CA NAME	PHONE NO	ENCY OR SPIL	L, CO	NIACT	24-HO	•		
	Kin Staughter 575-887-4048								
0	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC								
R	PRINTED/TYPED NAME		SIGNATURE					·····	
T R	16. TRANSPORTER (1)		17.	TI	RANSPO	ORTER (2)			
Α	NAME: TALON LPE.		NAME:		}				
N S	TEXAS I.D. NO.		TEXAS I.D. NO.		I	·			
P	IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	ERGENC	Y CONTAG	CT:			
O R	EMERGENCY PHONE: (37. 18. TRANSPORTER (1): Acknowledgment	2) 673-7429	EMERGENCY PH		(2). Ackru	owledgment of	receint		
T E	0101				ļ	owiedBillenk of	receipt		
R	PRINTED/TYPED NAME		PRINTED/TYPEI	) NAME	i			<u></u>	
S	SIGNATURE Could Bo	DATE	SIGNATURE			I	DATE		
		ADDRESS:		0 11-		PHONE:		7 4049	
DF	Lea Land, LLC		e Marker 64, U Miles East of C		- 1	so,	5/5-68	37-4048	
I A S C	PERMIT NO.		20. COMMENTS	<u>u1100u</u>	1111				
ΡI	WM-01-035 - New Mex	tico			1				
O L S I A T 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								that the	
LY	AUTHORIZED SIGNATURE		CELL NO.		DAT	E	ТІМ		
	Mn+M Dhrown 3/15/2018 3:3D								
GENER	ATOR: COPIES 1 & 6	0	E: COPIES 2 & 3			TRANS	PORT		
		י <u>ר</u> ס '	ויעםר						

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048										
	1300 WEST MAIN ST	LEA LA		HONE (	405) 236	5-4257	m	ni		
NON	HAZARDOUSWASTEMANIE	EST NO	13813	1. PA		OF 2. TRAIL	ER NO.	319		
	3. COMPANY NAME	4. ADDRESS 800 E. Sonterr			· [	5. PICK-UP DATE 3/15/2018				
G	Energy Transfer Co. PHONE NO.		STATE			5. TNRCC I.D. NO	<u></u>			
	(210).403-7300	San Antonio	TX .	782	[	, maco 1.0. no				
Ē	7. NAME OR DESCRIPTION OF WASTE SHIPPE			8. CON	TAINER		10. UNIT	11. TEXAS		
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	aste	· - · · · · · · · · · · · · · · · · · ·	<u>No.</u> ∙ 1	Туре СМ	QUANTITY	Wt/Vol.	WASTE ID #		
	b				 					
E	c				i		<u> </u>	<b> </b>		
R	dWT: 42.3/10	<u></u>								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			l <u> </u>	1	13. WASTE P	ROFILE N	0.		
A	CALEB LAUNCHER job. 70158314									
_	I4. IN CA NAME	SE OF EMERG	ENCY OR SPIL	<u>L, COI</u>	NTAC:		EMERGE	NCY NO.		
Т	Kin Slaughter	675-887-404	8		, 1					
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, ir	d labeled, and are in al	l respects in proper con	ndition fo	or transp	ort by highway acc	cording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE					DATE		
Т	16. TRANSPORTER (1)		17.	TI	RANȘI	PORTER (2)				
R A			NAME:		1					
N	TEXAS I.D. NO.		TEXAS I.D. NO.		ť					
S P	IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	RGENC	ן געסס צ	TACT:		:		
Ō		2) 673-7429	EMERGENCY PH	ONE:				_		
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPOI		(2): Ac	knowledgment of i	receipt of m	iaterial		
Е	PRINTED/TYPED NAME MOKE GU	0000127	PRINTED/TYPED	NAME						
R S	PRINTED/TYPED NAME MOISE GU SIGNATURE MOISES GONTALEY	ZDATE 3/15	2018 SIGNATURE	·		I	DATE			
[	<u></u>	ADDRESS:				PHONE:				
DF	Lea Land, LLC		Marker 64, U.		•		575-88	37-4048		
IA		<u>30 N</u>	Ailes East of Ca	arisbac	<u>i, NM</u>	<u> </u>				
SC PI OL	WM-01-035 - New Mex	kico	20. COMMENTS							
OL SI AT	S I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
LY	AUTHORIZED SIGNATURE	Λ	CELL NO.		, Ď	ATE	TI	ME		
	Montal Marc	lon				3/15/2016		3:45		
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITI	E: COPIES 2 & 3			TRANS	PORTERS:	COPIES 4 & 5		

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	LEA LAND DIS MILE MARKER #64 US HWY						XIC	0	
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257									
NON	NON HAZARDOUS WASTE MANIFEST NO 113814 1. PAGE_OF_ 2. TRAILER NO. 3/3								
G	3. COMPANY NAME         4. ADDRESS         5. PICK-UP DATE           G-         Energy Transfer Co.         800 E. Sonterra Blvd. #400         3/15/2018								
	PHONE NO.	STATE			INRCC I.D. NC				
E	(210) 403-7300	тх	782	:58					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	a. Non-Regulated, Non Hazardous Wa	aste. e	<u>.,</u> .	No. 1	CM	QUANTITI	WD VOI.	WASTEID#	
	b.								
Ē	¢.					<u> </u>			
						L		ĺ	
R	aWT: 37.92D								
А	12. COMMENTS OR SPECIAL INSTRUCTIONS: CALEB LAUNCHER job: 70158314		13. WASTE PROFILE NO.						
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
Т	NAME PHONE NO 24-HOUR EMERGENCY NO.								
	Kin Slaughter 575-887-4048:								
0	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents f this consignment are fully and accurately desc shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway accord international and national government regulations, including applicable state regulations, and are the same materials previously approved								
R	PRINTED/TYPED NAME		SIGNATURE					DATE	
					!				
T R	16. TRANSPORTER (1)		17.	TRANSPORTER (2)					
R A	NAME: TALON LPE		NAME:						
N S	TEXAS I.D. NO. TEXAS I.D. NO.								
Р	IN CASE OF EMERGENCY CONTACT: ROBBLE DEROSLER IN CASE OF EMERGENCY CONTACT:								
O R	Entercoencer Thomas	2) 873-7429	EMERGENCY PH						
Т	18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPO				(2): Ackno	owledgment of a	receipt of m	aterial	
E R		-0	PRINTED/TYPED	NAME	<u> </u>				
S	signature y S Jan D	3/15 DATE	2016 SIGNATURE			I	DATE		
	<b>T</b>	ADDRESS:	· · · · · · · · · · · · · · · · · · ·			PHONE:			
	Lea Land, LLC	Marker 64, U.	S. Hw	y 62/18		575-88	7-4048		
D F I A		Miles East of Carlsbad, NM							
s c	PERMIT NO.	•	20. COMMENTS		!				
P I O L	WM-01-035 - New Mexico								
S I A T	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.					that the			
ĽΥ	AUTHORIZED SIGNATURE	1	CELL NO.	DATE TIME			ME		
	MAHA DURAL	112	· · · · · · · · · · · · · · · · · · ·		1	3/15/2016		<u>3:50</u>	
GENER	ATOR: COPIES 1'& 6	J DISPOSAL SIT	E: COPIES 2 & 3			TRANSI	ORTE		

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	LEA LAND DISI MILE MARKER #64 US HWY 62				1			XIC	0
			ND, LLC						
	1300 WEST MAIN STRE	EET • OKLAHOM	A CITY, OK 73106 •	PHONE (	405) 23 1	6-4257 ·	Ta	lon	
<u>On</u>	AHAZARDOUS WASTIDIMANITE	ST. NO	113815	1. <b>PA</b>	GE	OF	2. TRAII	ER NOT-	IXDA
G		ADDRESS	ra Bivd. #400				-UP DATE	;	
J			STATE				C I.D. NC	).	
E	(210) 403-7300	San Antonio	тх .	782	58:				
• •	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CON No.	TÀINEI Type		TOTAL	10. UNIT Wt/Vol.	11. TEX
V I	<sup>a.</sup> Non-Regulated, Non Hazardous Was	te		1	CM				nno tu
	b.			<u> </u>		<u> </u>			·
2	¢.	<u> </u>				_			
		·			i				
2	dwr: 39,240								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	00			ł	13.	WASTE P	ROFILE N	<b>O</b> .
	CALEB LAUNCHER job: 701583144.	UZ							
ļ		E OF EMERC	SENCY OR SPII	l <mark>l, CO</mark> I	NTAC		24-110118	EMERGE	NCYNO
[ ז	Kin Slaughter	575-887-40	48:		1		24-1000	EMEROL.	nei no.
)	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above y								pplicable
	PRINTED/TYPED NAME		SIGNATURE		1				DATE
R					1				
Г	16. TRANSPORTER (1)	_	17.	TF	RANS	PORT	ER (2)		
₹ <b>\</b>	NAME: TALON LPE		NAME:		ļ				
1	TEXAS I.D. NO.		TEXAS I.D. NO.			i			
5									
) {		673-7429	EMERGENCY PHONE:						
Γ	18. TRANSPORTER (1): Acknowledgment of a	receipt of material	19. TRANSPO	( <b>2):</b> Ac	Acknowledgment of receipt of material				
₹ ₹	PRINTED/TYPED NAME BULKISS	35	PRINTED/TYPE		1				
5	SIGNATURE Bel Rear I	3/1	2018			ļ	I	DATE	
-		ADDRESS:				;	PHONE:		
	Lea Land, LLC	Mil	e Marker 64, U	I.S. Hw	y 62/	180,		575-88	37-4048
		20.1	Miles East of C	arlsbac	L NM	[			
F A				S C PERMIT NO. 20. COMMENTS					
A. C	PERMIT NO.		20. COMMENTS						
	PERMIT NO. WM-01-035 - New Mexic	0				!	,		
A C I L I	PERMIT NO.	CO <b>TION:</b> I Hereby		described	wastes	were del	ivered to the	his facility,	that the
A C I L	PERMIT NO. WM-01-035 - New Mexic 21.DISPOSAL FACILITY'S CERTIFICA	CO <b>TION:</b> I Hereby		described		were del	ivered to t		that the ME

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<u> </u>	- 											
	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 + 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
LEA LAND, LLC												
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257												
NÖN	HAZANDOUSNAASTE MANNE	EST NO	113816	1. PA	GE_OF	2. TRAIL	ER NO.	3110				
C.S.C. Bry	3. COMPANY NAME 4. ADDRESS 5. PICK-UP DATE											
G	Energy Transfer Co.				3/15/2016							
	PHONE NO. (210) 403-7300	CITY San Antonio	STATE TX	782		INRCC I.D. NO	ι.					
Е	7. NAME OR DESCRIPTION OF WASTE SHIPPE			8. CON	TAINERS	9. TOTAL	10. UNIT					
N	a. Non-Regulated, Non Hazardous Wa			No. 1	Type CM	QUANTITY	Wt/Vol.	WASTE ID #				
	b.			<u> </u>								
Ē												
	c.											
R	aWT: 35,920											
Α	12. COMMENTS OR SPECIAL INSTRUCTIONS: - CALEB LAUNCHER job: 70158314	4.02				13. WASTE P	PROFILE NO.					
		SE OF EMERG	ENCY OR SPIL	L. COI	NTACT							
Т	NAME	PHONE NO					24-HOUR ÉMERGENCY NO.					
	Kin Slaughter 575-887-4048											
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by propriation of the shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LI											
R	PRINTED/TYPED NAME		SIGNATURE			<u> </u>		DATE				
T R	16. TRANSPORTER (1)		17. TRANSPORTER (2)									
A	NAME: TALON LPE		NAME:									
N S	TEXAS I.D. NO.		TEXAS I.D. NO.									
P O	IN CASE OF EMERGENCY CONTACT: ROB	IN CASE OF EMERGENCY CONTACT:										
R	EMERGENCY PHONE: (314 18. TRANSPORTER (1): Acknowledgment of	2) 873-7429	EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material									
T E	PRINTED/TYPED NAME Lus Ling	•	PRINTED/TYPED NAME									
R S				TAME	·							
Ľ,	SIGNATURE duis Mimmi	DATE	2018 SIGNATURE				ATE					
	Lea Land, LLC	ADDRESS: Mile	Marker 64 II	ទ ដា	w 62/19	PHONE:	575-88	7-4048				
DF	LVA LAILU, LLV	le Marker 64, U.S. Hwy 62/180, 575-887-4048 Miles East of Carlsbad, NM										
IA SC PI	PERMIT NO. WM-01-035 - New Mex	20. COMMENTS										
OL SI AT	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.							that the				
LY	AUTHORIZED SIGNATURE	Λ	CELL NO.		DAT	E	TI	ME				
) ,	Nantal Nonn	Un.	i .			3/15/2018	18	3:55				
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITE	E: COPIES 2 & 3	Ł		TRANSF	ORTERS:	COPIES 4 & 5				
	0	U na	10V 1									

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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048										
	LEA LAND, LLC 1300 WEST MAIN STREET + OKLAHOMA CITY, OK 73106 + PHONE (405) 236-4257									
NON	ELAVAARDOUS WASH BAYAANI Q	ISTH NO	113850	1. PA	GEOF_	2. TRAIL	ER NO.	319		
G										
	PHONE NO.	CITY	STATE		ZIP 6. T	NRCC I.D. NO	•			
E	(210) 403-7300	San Antonio	TX	782 8. CON	58 TAINERS	9. TOTAL	10. UNIT	II. TEXAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPED	): 		No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #		
N	Non-Regulated, Non Hazardous Wa	ste		1	CM.					
Е	b.									
Ľ	<b>c</b> .			_						
R	WT: 415/00 ALS	$\overline{\mathcal{N}}$		i						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				L	13. WASTE P	ROFILE N	D.		
A	CALE A B LAUNCHER job # 701583144.02 RU				)	1				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
Т	NAME PHONE NO 24-HOUR EMERGENCY NO									
0	Kin Slaughter         575-887-4048           15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC									
R								DATE		
Т	16. TRANSPORTER (1) 17.			Tł	RANSPO	RTER (2)				
R A			NAME:							
N S	TEXAS I.D. NO. TEXAS I.D.									
Р	IN CASE OF EMERGENCY CONTACT: ROBBIE DeROSIER IN CASE OF EM				ERGENCY CONTACT:					
O R	EMERGENCY PHONE: (512):673-7429. EMERGENCY I 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPO									
T E		-	:	ORTER (2): Acknowledgment of receipt of material						
R	PRINTED/TYPED NAME Mo (S) (20)									
S	SIGNATURE Merses Grander DATE 3/18/2018 DATE DATE DATE									
	) Log Logd LLC	ADDRESS:	Madee (A. II	C IT-		PHONE:	676 00	7 4040		
DF	Lea Land, LLC		Marker 64, U. Ailes East of Ca			ν,	212-00	7-4048		
I A S C	PERMIT NO.		20. COMMENTS		· · · ·	<b>-</b>				
P 1	WM-01-035 - New Mexico									
OL SI AT	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
LY	AUTHORIZED SIGNATURE		CELL NO.	DATE TIM			ME			
ļ <u>,</u>	Danto Lonzale	<u>/)</u>				3/16/2016		1.15		
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITI	E: COPIES 2 & 3			TRANSF	ORTERS:	COPIES 4 & 5		

COUNT 1

	LEA LAND DISPO				1		KIC	0		
	LE 1300 WEST MAIN STREET •		ND, LLC a city, ok 73106 • 1	PHONE (	1 405) 236-4	257	1B			
RON	HAVZAIRDOUS WAS TELWAND DEST	NO	113851	1. PA	GEOF	2. TRAIL	.ER NO.	#4		
. <b>G</b>	3. COMPANY NAME     4. ADD       Energy Transfer Co.     800       PHONE NO.     CITY		ta Blvd. #400 STATE			PICK-UP DATE 3/16/2016 INRCC I.D. NO		,		
E	(210) 403-7300 San. 7. NAME OR DESCRIPTION OF WASTE SHIPPED:	Antonia_	<u></u>	782 8. CON No.	58 TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	<sup>8.</sup> Non-Regulated, Non Hazardous Waste		٠	1	СМ					
Ē	ь. с.		<u>.</u>							
R	"WT: 450 45960									
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: CALE A B LAUNCHER. job # 701583144.02	7	<i>a 81.5</i> 2	20		13. WASTE P	ROFILE N	0.		
Т	14.         IN CASE OF EMERGENCY OR SPILL, CONTACT           NAME         PHONE NO         24-HOUR EMERGENCY NO.									
0	Kin Slaughter 57 15 GENERATOR'S CERTIFICATION: I Hereby shipping name and are classified, packed, marked, and labeled international and national government regulations, including a	, and are in a	the contents of this co Il respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE					DATE		
T R A N S P O	16. TRANSPORTER (1) NAME: <u>TALON LPE</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: ROBBIE DE		17. NAME: TEXAS I.D. NO. IN CASE OF EME	RGENC		DRTER (2)				
R T E R S	EMERGENCY PHONE:       (512) 673-         18. TRANSPORTER (1): Acknowledgment of receipt         PRINTED/TYPED NAME         PRINTED/TYPED NAME	of material	EMERGENCY PH 19. TRANSPO PRINTED/TYPE	RTER				nateriāl		
	SIGNATURE DATE	RESS:	20,16 NATURE			PHONE:	DATE			
DF	Lea Land, LLC	Mil	e Marker 64, U. Miles East of C		•	1	575-88	7-4048		
IA SC PI OL	PERMIT NO. WM-01-035 - New Mexico									
S I A T	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above facility is authorized and permitted to receive such wastes.				wastes we	re delivered to th	nis facility,	that the		
LΥ	AUTHORIZED SIGNATURE		CELL NO.	/	DAT	e 3/16/2016	TI	ме 11,25		
GENER	ATOR: COPIES I & 6	POSAL SIT	E: COPIES 2 & 3			TRANSP	ORTERS	OPIES 4 & 5		

LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048										
	1300 WEST MAIN ST	REET • OKLAHOM		PHONE (	(405) 236-4	257 (74	2 Mu	, ni		
NØN	HIRVANRDOUS WASHIBAY ANNI S	EST NO	113852	1. <b>PA</b>	GE_OF_	2. TRAII	LER NOT	22		
G	3. COMPANY NAME	4. ADDRESS 800 E. Sonten	a Blud #400		1	PICK-UP DATE 3/16/2016				
	Energy Transfer Co. PHONE NO.	CITY	STATE			NRCC I.D. NO				
E	(210) 403-7300	San Antonio	тх	782	258					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	acto		1	Type CM	QUANTIT		WASTE ID #		
	b.									
E	C.									
		<u></u>		ļ						
R	<sup>WT:</sup> 39.90 38.48	リ								
1	12. COMMENTS OR SPECIAL INSTRUCTIONS:	444.00				13. WASTE P	ROFILE N	0.		
A	CALE A B LAUNCHER job # 70.1583144.02 TO 18.400									
	14. IN CA	SE OF EMERG	ENCY OR SPIL	L, CO	NTACT	24-HOUR	FMF			
Т	Kin Slaughter 575-887-4048									
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in al	l respects in proper co	ndition fo	or transport	by highway acc	ording to a	oplicable		
R	PRINTED/TYPED NAME		SIGNATURE		,			DATE		
T	16. TRANSPORTER (1)		17.	ті	ANSPO	RTER (2)	<del></del>			
R	NAME:		NAME:							
A N	TALON LPE		TEXAS I.D. NO.							
S				DOENC		<b>~т</b> .				
P O		BIE DeROSIER 2) 673-7429	IN CASE OF EME		T CONTAC					
R T	18. TRANSPORTER (1): Acknowledgment		19. TRANSPO		(2): Açkno	wledgment of	receipt of m	aterial		
Ē R	PRINTED/TYPED NAME <u>ALVAYO</u> B	yma S	PRINTED/TYPEI	) NAME	·					
S	SIGNATURE CULLON ACTOR		2018 NATURE	•		Г	DATE			
		ADDRESS:				PHONE:				
	Lea Land, LLC		e Marker 64, U	S. Hw	ry 62/18	0,	575-88	7-4048		
D F I A		30 N	Ailes East of Ca	arlsbad	<u>1, NM</u>		<u> </u>			
S C P I	PERMIT NO. WM-01-035 - New Mex	tico	20. COMMENTS							
οĽ	21. DISPOSAL FACILITY'S CERTIFIC	ATION · I Hereby	ertify that the above of	lescribed	waster wer	e delivered to t	his facility	that the		
S I A T	facility is authorized and permitted to receive such v		centry that the BOOVE C	ICSCHOOL	wastes wei					
LY	AUTAIORIZED SIGNATURE	non las	CELL NO.	-	DAT	e 3/18/2016	. Tu	1.35		
GENER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			TRANSI	PORT :	COPI		

	1300 WEST MAIN ST	TREET • OKL		ND, LLC CITY, OK 73106 • 1	PHONE (	405) 236	-4257	emi	nī		
NÖ	NHAZARDOUS WASITEHMANIH	EST NC	, 1	13853	1. PA	GEO	F 2. TRAI	LER NO.	F31		
	3. COMPANY NAME	4. ADDRESS	3		_	5	. PICK-UP DATE				
G	Energy Transfer Co. PHONE NO.	800 E. S	onterr			3/16/2018 6. TNRCC I.D. NO.					
_					704		, INACC 1.D. 10				
E	(216) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPI	I San Antr ED:		<u> </u>	782 8. CON No.	TAINER	S 9. TOTAL QUANTITY	10. UNIT Wt/Vol.	II. TE WASTE		
N	a. Non-Regulated, Non Hazardous W	/aste .	<u></u>			.CM					
E	b			<b></b>							
	dwi: 2700 208	1.7									
R	12. COMMENTS OR SPECIAL INSTRUCTIONS			<u></u>	I		13. WASTE F	ROFILE N	0.		
A	CALBABLAUNCHER job # 701583144.02 To 74860										
14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EME											
Т	Kin Slaughter	575-88		0			2 ( 110 OF		•		
R	international and national government regulations, in PRINTED/TYPED NAME	ncluding applic	able stat	signature		<u> </u>			DATE		
T	16. TRANSPORTER (1)			17.	T	RANSF	PORTER (2)				
R	NAME:			NAME:	• -						
A N	TALON LPE			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT: ROE			IN CASE OF EMI	ERGENC	Y CONT	ACT:				
0		BIE DeRO 2) 673-742		EMERGENCY PH							
R T	18. TRANSPORTER (1): Acknowledgment			19. TRANSPO		(2): Aci	cnowledgment of	receipt of n	naterial		
E R	PRINTED TYPED NAME LUIS LIN	NON		PRINTED/TYPEI	O NAME						
S	SIGNATURE	DATE	<u>3/16</u>	2018NATURE			*	DATE			
		ADDRESS			0.17		PHONE:				
DF	Lea Land, LLC	{		Marker 64, U files East of C		•		575-88	7-404		
IA SC PI	PERMIT NO.	 xico	<u> </u>	20. COMMENTS	41.00/41	<u></u>	<u>~</u>				
O L S I	21. DISPOSAL FACILITY'S CERTIFIC		Hereby c	ertify that the above	described	wastes v	vere delivered to t	his facility,	that the		
AT LY							<u></u>		ME		
	No infraces alandi ore	. //									

	LEA LAND DIS MILE MARKER #64 US HWY				1		KIC	0	
	1300 WEST MAIN ST	LEA LA		HONE (	405) 236	-4257	mìr	) î	
NON	HAZARDOUSWASHEMANIH	EST NO	113854	1. PA	GEO	F 2. TRAIL	ER NO.	#-322	
G	3. COMPANY NAME Energy Transfer Co. PHONE NO.	4. ADDRESS 800 E. Sonten CITY	ra Bivd. #400 STATE		,	. PICK-UP DATE 3/16/2016	6/2016		
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPE	San Antonio D:	<u> </u>	782 8. CON No.	TAINER	S 9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	<sup>a.</sup> Non-Regulated, Non Hazardous Wa		1	СМ					
E	b. c.				. <u>.</u>				
R	dWT: 39,220 33:71	Ð							
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: CAL® A B LAUNCHER job # 701583	144.02	TQ MI	298	$\mathcal{D}$	13. WASTE P	ROFILE N	0.	
Т	IA.     IN CASE OF EMERGENCY OR SPILL, CONTACT       NAME     PHONE NO       Kin Slaughter     575-887-4048								
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and are in al	l respects in proper co	ndition fo	or transpo	ort by highway acc	ordin t	roper	
R	PRINTED/TYPED NAME		SIGNATURE						
T R A N S	16.     TRANSPORTER (1)       NAME:     TALON LPE       TEXAS I.D. NO.     TALON LPE		17. NAME: TEXAS I.D. NO.	Τŀ	RANSP	ORTER (2)			
P O R T	IN CASE OF EMERGENCY CONTACT: ROBE EMERGENCY PHONE: (512 18. TRANSPORTER (1): Acknowledgment of	2) 073-7420	IN CASE OF EME EMERGENCY PH 19. <b>TRANSPO</b>	ONE:			eceipt of m	aterial	
E R S	PRINTED/TYPED NAME Emilia And	Lig 3/18	PRINTED/TYPED	NAME			ATE		
DF	Lea Land, LLC	address: Mile	Marker 64, U. files East of Ca		-	PHONE:		7-4048	
IA SC PI OL	PERMIT NO. WM-01-035 - New Mex		20. COMMENTS		- · ·				
OL SI AT	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w	ATION: I Hereby o	ertify that the above d	lescribed	wastes w	rere delivered to th	is facility,	that the	
LY	AUTHORIZED SIGNATURE	nzales	CELL NO.	/	DA	TE 3/16/2016	· TII	ме .45_	
GENER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5	

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LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048									
	1300 WEST MAIN STR		ND, LLC	PHONE (	405) 236-	<sup>4257</sup> H	B		
NON	HAVZARDOUSWASTJE/MANIFI	ST NO	113855	I. PA	GEOF	2. TRAIL	ER NO.	#001	
G	Energy Transfer Co.	4. ADDRESS 800 E. Sonte CITY	r <b>ta Bivd. #400</b> . STATE			PICK-UP DATE <b>3/16/2016</b> TNRCC I.D. NO			
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPED	х	782 8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	<sup>a</sup> Non-Regulated, Non Hazardous Wa	ste		1	СМ				
E	b. <b>c.</b>								
R	dWT: 43140 39,30	ıD		[		13. WASTE P	ROFILE N	0.	
A	CALE A B LAUNCHER job # 7015831	44.02	Q 82:	522	>				
т	NAME .	PHONE NO	GENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.	
0	Kin Slaughter 15.GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, inc	labeled, and are in	t the contents of this co all respects in proper co	ndition fo	or transpor	t by highway acc	ording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE					DATE	
T R	16. TRANSPORTER (1)		17.	TI	RANSP(	ORTER (2)			
A N	NAME: TALON LPE		NAME: TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT: ROBE	IE DeROSIER		ERGENC	Y CONTA	CT:			
O R T	EMERGENCY PHONE: (5.1.2) 18. TRANSPORTER (1): Acknowledgment of	1.673-7429 Freceipt of material	EMERGENCY PH 19. TRANSPO		 (2): A¢kr	owledgment of i	receipt of n	naterial	
E R	PRINTED/TYPED NAME	<u>a-</u>	PRINTED/TYPE	) NAME					
S	SIGNATURE + STrato	DATE 3/1	2018NATURE			[	DATE		
DF	Lea Land, LLC		le Marker 64, U Miles East of C		- I	80, PHONE:	575-88	37-4048	
I A S C P I	I     A       S     C       P     I       WM-01-035 - New Mexico   20. COMMENTS							<u>, , , , , , , , , , , , , , , , , , , </u>	
OL SI AT	S I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the								
LY	AUTHORIZED SIGNATURE	zaln	CELL NO.			re 3/1.6/2016	TI	<sup>ME</sup> 1.45	
GENER	ATOR: COPIES 1 & 6	DISPOSAL SI	TE: COPIES 2 & 3			TRANS	PORTERS:	COPIES 4 & 5	

	LEA LAND DIS						KIC	0
	MILE MARKER #64 US HWY		EAST OF CARLSBAI	D, NM • I	PHOŅE (5	(75) 887-4048	•	
	1300 WEST MAIN ST			PHONE (	405) 236-4	4257 ( . <u>]</u>	emu	ni
NON	HEATAARDOUS WAS DE MANNE	EST NO	113856	1. PA		2. TRAIL	.er no	3/3
G	3. COMPANY NAME	4. ADDRESS 800 E. Sonter	ra Rivel #400		5.	PICK-UP DATE 3/16/2016		
	Energy Transfer Co. PHONE NO.	CITY	STATE		ZIP 6.	TNRCC I.D. NO		
E	(210) 403-7300	San Antonio	тх	782				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D: .		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	<sup>a.</sup> Non-Regulated, Non Hazardous Wa	aste	· · · · · · · · ·	1	см			
	b.							
E	с.							
R	dWT: 21,1,70 2M	ILID	· · · · · · · · · · · · · · · · · · ·					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				L <u>.</u>	13. WASTE P	ROFILE N	D.
A	CALE A B LAUNCHER job # 701583	144.02 -	Ta 13	78	わ			
			ENCY OR SPIL	L, COI	NTACT	······		
Т	NAME Via Claushtar	PHONE NO 575-887-40	10			24-HOUR	EMERGE	NCY NO.
о	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above 1							
R	PRINTED/TYPED NAME	<u></u>	SIGNATURE	· .	1	·		DATE
						_		
T R	16. TRANSPORTER (1)		17.	TH	RANSPO	ORTER (2)		
A	NAME: TALON LPE		NAME:					
N S	TEXAS I.D. NO.		TEXAS I.D. NO.					
P O		BIE DeROSIER 2) 673-7429	IN CASE OF EME		Y CONTA	CT:		
R T	EMERGENCY PHONE:         (512)           18. TRANSPORTER (1): Acknowledgment of		EMERGENCY PH 19. TRANSPO		(2): Ackn	owledgment of r	eccipt of m	aterial
E R	PRINTED/TYPED NAME	<u> </u>	PRINTED/TYPED	NAME				
S	SIGNATURE San J	DATE 3/16	2016 SIGNATURE			D	ATE	
		ADDRESS:			i	PHONE:		
DF	Lea Land, LLC		Marker 64, U.		· I	30,	575-88	7-4048
ΙΑ	PERMIT NO.	30 1	Ailes East of Ca	arisbac	<u>1, NM</u>	I		
S C P I	WM-01-035 - New Mex							
OL SI AT	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		certify that the above of	lescribed	wastes we	re delivered to th	nis facility, i	that the
LY	AUTHORIZED SIGNATURE	Λ	CELL NO.	/	DAT	Ъ.	111	ME
	Wantles Day	Rala		<u></u>		3/16/2016		1.55
GENER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			TRANSF	ORTERS:	COPIES 4 & 5

	LEA LAND DI MILE MARKER #64 US H						XIC	O			
	1300 WEST MAIN	LEA LA	ND, LLC	PHONE (	405) 236-	4257	slan				
0	NATINA AND OR WARDING AND		113857	1. PA		14	LER NO.	8700			
G	3. COMPANY NAME	4. ADDRESS	rra Blvd: #400-	L	5.	PICK-UP DATE	12				
	Energy Transfer Co. PHONE NO.	CITY	STATE		<b>ZIP</b> 6.	3/16/2016 TNRCC I.D. NO	D.				
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHI	. San Antonio. PPED:	<b>TX</b>		TAINERS		10. UNIT				
N	a. Non-Regulated, Non-Hazardous	Waste		No. 1	Type CM	QUANTITY	Wt/Vol.	WASTE			
_	b.						<u> </u>				
£	с.										
ł	<sup>d</sup> WT: 40,920										
1	12. COMMENTS OR SPECIAL INSTRUCTIO					13. WASTE F	ROFILE N	0.			
-	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
NAME PHONE NO 24-HOUR EMERGENCY NO. Kin Slaughter 575-887-4048											
)	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prop										
R	PRINTED/TYPED NAME	<u> </u>	SIGNATURE			<u>, , , , , , , , , , , , , , , , , , , </u>		DATE			
Г D	16. TRANSPORTER (1	)	17.	TF	RANSPO	ORTER (2)					
	NAME: TALON LPI		NAME;								
			TEXAS I.D. NO.		i						
8	TEXAS I.D. NO.		IN CASE OF EM	ERGENC	I Y CONTA	P IN CASE OF EMERGENCY CONTACT: ROBBIE DEROSIER IN CASE OF EMERGENCY CONTACT:					
8 5 9 0	IN CASE OF EMERGENCY CONTACT: RC	0881E DeROSIER 512) 673-7428	IN CASE OF EM		Y CONTA	ICT:					
N 5907	IN CASE OF EMERGENCY CONTACT: RC	512) 673-7428	EMERGENCY PI	HONE:			receipt of m	aterial			
N S P D R F E R	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE:	512) 673-7428 ent of receipt of material R \SpS	EMERGENCY PI 19. TRANSPO PRINTED/TYPE	HONE: RTER	( <b>2):</b> Ackr		receipt of m	naterial			
	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (1) 18. TRANSPORTER (1): Acknowledgme	512) 673-7428 ent of receipt of material R \SpS	EMERGENCY PI	HONE: RTER	( <b>2):</b> Ackr	nowledgment of	receipt of m	nateriał			
N S P O R F E R	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (4 18. TRANSPORTER (1); Acknowledgme PRINTED/TYPED NAME BUI SIGNATURE BUILT RECEIPTION	$\frac{512)}{873-7428}$ ent of receipt of material $\frac{3/1}{2}$ ADDRESS:	EMERGENCY PI 19. TRANSPO PRINTED/TYPE 6/2018/NATURE	HONE: DRTER ( D NAME )	(2): Ackr	nowledgment of	DATE				
	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (1) 18. TRANSPORTER (1): Acknowledgma PRINTED/TYPED NAME BIGNATURE	ant of receipt of material SSS DATE 3/1 ADDRESS: Mi	EMERGENCY PI 19. TRANSPO PRINTED/TYPE	HONE: PRTER ( D NAME U.S. Hw	(2): Ackr	nowledgment of					
N SPORTERS FACI	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (4 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME BUI SIGNATURE BUI Lea Land, LLC PERMIT NO.	ant of receipt of material SpS ADDRESS: Mi 30	EMERGENCY PI 19. TRANSPO PRINTED/TYPE 6/2018/NATURE le Marker 64, U	HONE: PRTER ( D NAME U.S. Hw	(2): Ackr	nowledgment of	DATE				
NSPORTERS FACILIT	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (4 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New M 21.DISPOSAL FACILITY'S CERTIF facility is authorized and permitted to receive su	512) 673-7428         ant of receipt of material         SpS         ADDRESS:         Mil         30         Iexico	EMERGENCY PI 19. TRANSPO PRINTED/TYPE 2018NATURE Marker 64, U Miles East of C 20. COMMENTS	HONE: <b>RTER</b> D NAME U.S. Hw Carlsbac	(2): Ackr (2): A	PHONE:	DATE 575-88	37-4048			
A C I L	IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (4 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New M 21.DISPOSAL FACILITY'S CERTIF facility is authorized and permitted to receive su	512) 673-7428         ant of receipt of material         SpS         ADDRESS:         Mil         30         Iexico	EMERGENCY PI 19. TRANSPO PRINTED/TYPE 2018NATURE Marker 64, U Miles East of C 20. COMMENTS	HONE: <b>RTER</b> D NAME U.S. Hw Carlsbac	(2): Ackr (2): A	PHONE: 80, rre delivered to th	DATE 575-88	37-404			

	MILE MARKER #64 US HWY	62/180 • 30 MILES			1	ME2		<u> </u>		
	1300 WEST MAIN ST		<b>ND, LLC</b> A CITY, OK 73106 •	PHONE (4	405) 236-4	257 <b>7</b> 7	10 N	LAC		
NO	NHAZARDOUSWASTLEMANIE	ESIE NO	113899	1. PA		2. TRAII	ER NO.	1142		
G	3. COMPANY NAME Energy Transfer Co. PHONE NO.	4. ADDRESS	ra Elvd. #400 STATE			PICK-UP DATE 3/17/2016 "NRCC I.D. NO				
E .	(210):403-7300	San Antonio	TX	782		9. TOTAL	,. Γιο. υνιτ	LI TEV		
N	7. NAME OR DESCRIPTION OF WASTE SHIPPE a. Non-Regulated, Non Hazardous Wa		·	No.	Type CM	QUANTITY	Wt/Vol.	II. TEXA WASTE II		
- •	b.					·				
E	C.									
R	dWT: 31.320 27:300	)				13. WASTE P				
A	CAL A B LAUNCHER job #70158314		13. 10.00101	<u></u>	<b>.</b>					
т	CAL & B LAUNCHER Job # //01083/144.02     Oto     5 20 / 0 20       14.     IN CASE OF EMERGENCY OR SPILL, CONTACT       NAME     PHONE NO									
0	Kin Slaughter 15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and are in a	the contents of this co ill respects in proper co	ondition fo	er transport	by highway acc	cording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE					DATE		
T	16. TRANSPORTER (1)		17.	TRANSPORTER (2)						
R A	NAME: TALON LPE		NAME:							
N S	TEXAS I.D. NO.		TEXAS I.D. NO.	TEXAS I.D. NO.						
P O	IN CASE OF EMERGENCY CONTACT: ROB	BIE DeROSIER	IN CASE OF EMI	ERGENCY		CT:				
R	EMERGENCY PHONE: (512 18. TRANSPORTER (1); Acknowledgment of	2) 673-7429.	EMERGENCY PH 19. TRANSPO		(2): Ackno	owledgment of	receipt of m	naterial		
T E R	PRINTED/TYPED NAME BILLY 57	TES	PRINTED/TYPE							
S	SIGNATURE- PALLY THEOS	DATE 3/17	2018 NATURE			I	DATE	- <u></u>		
		ADDRESS:		<u></u>	J	PHONE:				
DF	Lea Land, LLC		e Marker 64, U Miles East of C			0,	575-88	7-4048		
-	PERMIT NO. WM-01-035 - New Mex		20. COMMENTS							
IA SC PI		21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that ( facility is authorized and permitted to receive such wastes.			tify that the above described wastes were			were delivered to this facility, that the		
IA SC PI OL SI			centry that the above		ļ					
IA SC PI OL SI			CELL NO.			E 3/17/2016	TI	ME [ 720		

	LEA LAND DISP MILE MARKER #64 US HWY 62/1						XIC	O
	1300 WEST MAIN STREE		ND, LLC	PHONE (	(405) 236-4	257	H	B
non	HIAZANRDOUSAWASTIE MANTEEST	T NO	113900	I. PA	GE OF	2. TRAIL	ER NO.	201
_		DDRESS		_		PICK-UP DATE	:	
G			ra Blvd. #400			3/17/2018		
_		r an Antonio	STATE TX	782		INRCC I.D. NC	).	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				TAINERS	9. TOTAL	10. UNIT	11. TEXA
				No.	Type	QUANTITY	Wt/Vol.	WASTE ID
N	<sup>a.</sup> Non-Regulated, Non Hazardous Waste	· ·		.1				
_	b.							
E	с.							
-	AMT: ZOONO		<u> </u>					<u>                                      </u>
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:	<u> </u>						<u> </u>
	CAL A B LAUNCHER job # 701583144.0	2				13. WASTE P	RUFILE N	0.
A								
-		OF EMERG	ENCY OR SPIL	.L, CO	NTACT	24-HOUR	EMERGE	NCY NO.
Т		575-887-404	8		ļ			
15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAN							pplicable	
R	PRINTED/TYPED NAME		SIGNATURE					DATE
т	16. TRANSPORTER (1)		17	TI	RANSPO	RTER (2)		
R		:	NAME:			,		
N	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT: ROBBLE		IN CASE OF EME	RGENC		CT:		
0	EMERGENCY PHONE; (512) 67		EMERGENCY PH					
R T	18. TRANSPORTER (1): Acknowledgment of rec	eipt of material	19. TRANSPO		(2): Ackn	wledgment of r	eccipt of m	naterial
E	PRINTED/TYPED NAME Estrada	/	PRINTED/TYPEI	NAME				
R S	1 Stanton					_		
-	SIGNATURE CATTON DAT	TE	2016: SIGNATURE		1	<u></u>	ATE	
		DDRESS:	Marlan (A. II	C II.	(2/15	PHONE:	676 00	7 4049
F	Lea Land, LLC		Marker 64, U. Ailes East of Ca		-	<i>.</i> 0,	5/5-00	7-4048
A	PERMIT NO.		20. COMMENTS	a1150a(	<u>, 11111</u>		<u>-</u>	
C I	WM-01-035 - New Mexico							
) L ; I ; T	21.DISPOSAL FACILITY'S CERTIFICATI facility is authorized and permitted to receive such wastes	lescribed	wastes we	e delivered to th	nis facility,	that the		
LY	AUTHOUZAD SIGNATURE		CELL NO.	/	DAT	E	тп	ME
(	1 1 Mark VX	. :				3/17/2018		130
JENER	ATOR: COPIESY & 6	DISPOSAL SITE	E: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 &

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	LEA LAND DIS MILE MARKER #64 US HWY				1		KIC	Ο		
	1300 WEST MAIN ST		AND, LLC MA CITY, OK 73106 •	PHONE (	(405) 236-	4257	ţ	HB		
NON	HAVARDOUSWASIDAMANIU	ESIF NO	113901	1. PA	GE_OI	F 2. TRAIL	.ER NO.	54		
	3. COMPANY NAME	4. ADDRESS			5.	PICK-UP DATE		· ´		
G	Energy Transfer Co. PHONE NO.	800 E. Sont	erra Blvd. #400 STATE		ZIP 6.	3/17/2018 . TNRCC I.D. NO		<del></del>		
				700		INKCC I.D. NO				
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPE	<u>San Antonic</u>	<u> </u>	782 8. CON	TAINERS		10. UNIT	11. TEXAS		
N			<u> </u>	No.	Type	QUANTITY	Wt/Vol.	WASTE ID #		
18	Non-Regulated, Non Mazardous VVa	aste		1.	СӍ					
E	b.				j					
L,	с. 									
R	dWT: AIGIA				İ					
î.	12. COMMENTS OR SPECIAL INSTRUCTIONS:			<u> </u>	<u></u>	13. WASTE P	ROFILE N	0.		
A	CAL A B LAUNCHER job # 70158314	14.02								
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
т	NAME BHONE NO. 1 24 HOUR EMERGENCY NO.									
	Kin Slaughter	575-887-4		_						
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and are in	all respects in proper co	ondition f	or transpor	rt by highway acc	ording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE		-	_		DATE		
Т	16. TRANSPORTER (1)		17.	T	RANSP	ORTER (2)				
R	NAME		NAME:							
A N	TEXAS I.D. NO.		TEXAS I.D. NO.		Ì					
S P				ERGENC		ACT.				
0		31E DeROSIE 2) 673-7429	EMERGENCY PI							
R T	18. TRANSPORTER (1): Acknowledgment				(2): Açkı	nowledgment of	receipt of m	naterial		
Е	PRINTED/TYPED NAME NOSITO	7	PRINTED/TYPE	D NAME						
R S	T. T. T.		17 2016 NATURE				DATE			
<b> </b>	SIGNATURE ( Much)							· · · · · · · · · · · · · · · · · · ·		
	Lea Land, LLC	ADDRESS: M	ile Marker 64, U	IS Hu	√ 62/1	80. PHONE:	575-88	37-4048		
DF			Miles East of C		- 1	,				
I A S C	PERMIT NO.		20. COMMENTS		1					
P I O L	WM-01-035 - New Mex	ico								
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		by certify that the above	described	l wastes w	ere delivered to t	his facility,	that the		
LY	AUTHORIZED SIGNATURE		CELL NO.		DA	TE	TI	ME		
	1) Untra VIX					3/17/2016		135		
GENER	ATOR: COPIES 1 & 6	DISPOSAL S	SITE: COPIES 2 & 3		1	TRANSI	ORTERS:	COPIES 4 & 5		

<u> </u>	•								
	LEA LAND DIS MILE MARKER #64 US HWY				4			KIC	0
	1300 WEST MAIN ST		ND, LLC a city, ok 73106 • 1	PHONE (4	105) 236	-4257	Mi	ANNI	
NON	HEAVIARDOUS WASHEMAN	EST NO	113902	1. PAC	GE_O	F	2. TRAII	ER NO	7.7
	3. COMPANY NAME	4. ADDRESS		<u>J</u>	5.		JP DATE		
G.	Energy Transfer Co. PHONE NO.	800 E. Sonter	STATE		710 6		2018		
		San Antonio	TX	782		. INKU	. I.D. NC	Ι,	
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIPPE		17	8. CON		S 9.1	OTAL	10. UNIT	11. TEXAS
			· · · · · · · · · · · · · · · · · · ·	No.	Type	QUA	NTITY	Wt/Vol.	WASTE ID #
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	aste		1	СМ				
	b.				1				
E	C.								
	AWT: JAAAN		<u> </u>		<u></u>				
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:			<u> </u>	<u> </u>	1.7.1	VACTE D	ROFILE N	
A	CAL A B LAUNCHER job # 70158314	14:02				13. 9	VASIE P	KUFILE N	0.
			ENCY OR SPIL	L, CON	TACT				
Т	NAME PHONE NO						4-HOUR	EMERGE	NCY NO.
	Kin Slaughter	575-887-40			6 <sup>1</sup> 11	1		described at	
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in a	I respects in proper co	ndition fo	r transpo	ort by hig	hwny acc	ording to a	oplicable
R	PRINTED/TYPED NAME	·	SIGNATURE		1		······································		DATE
ĸ									i
T	16. TRANSPORTER (1)		17.	TR	ANSP	ORTE	CR (2)		
R A	NAME: TALONU DE		NAME:		1				
N	TEXAS I.D. NO.		TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	RGENCY	 ( CONT.	ACT:			
0		2) 873-7429	EMERGENCY PH	IONE:	.				
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPO		2): Ack	mowledg	ment of 1	eceipt of m	aterial
E	PRINTED/TYPED NAME NOSE P	1 Garcio	PRINTED/TYPEI	NAME					
R S	signature frely.		2018 SIGNATURE				I	DATE	
		ADDRESS:					PHONE:		
DF	Leà Land, LLC		e Marker 64, U		-			575-88	7-4048
D F I A		30 N	Ailes East of Ca	arlsbad	<u>, NΜ</u> ι			<u> </u>	
S C P I O L	WM-01-035 - New Mex	20. COMMENTS							
O L S I A T 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were deliv facility is authorized and permitted to receive such wastes.						vered to th	his facility,	that the	
LY	AUTHORIZED SEINATURE		CELL NO.	/	DA	TE		ווד	vie ,
						3/17	/2016		140
GENER	ATOR: COPIES 1 & 6	DISPOSAL SIT	E: COPIES 2 & 3			, 1		ORTERS:	COPIES 4 & 5
	·	00	ו אסנ						

		LEA LAND DIS MILE MARKER #64 US HWY				1		XIC	0
		1300 WEST MAIN ST	REET • OKLAHOM	ND, LLC a city, ok 73106 • 1	PHONE (	(405) 236-	-4257	# (	57
N	DŇ	HAVARDOUS WASHENMANNE	EST NO	L13903	1. PA	GE OI	F 2. TRA	ILER NO.	5717
		3. COMPANY NAME	4. ADDRESS			5.	PICK-UP DAT	ſE	
G		Energy Transfer Co.	800 E. Sonter				3/17/2018		
		PHONE NO.	CITY	STATE		ZIP 6.	TNRCC I.D. N	10.	
E		(210) 403-7300	San Antonio	ТХ	782	58    TAINERS	5 9. TOTAL	10. UNIT	II. TEXAS
	ļ	7. NAME OR DESCRIPTION OF WASTE SHIPPE	NAME OR DESCRIPTION OF WAS TE SHIPPED: No. T						WASTE ID #
N	ļ	<sup>a.</sup> Non-Regulated, Non Hazardous Wi	aste		1	СМ			
	- 1	b.							
E	[	c							
Ŕ		WT: ANZUN							
		12. COMMENTS OR SPECIAL INSTRUCTIONS:			1		13. WA		L
A		CAL A B LAUNCHER job # 70158314	14.02						
			SE OF EMERG	ENCY OR SPIL	L, CO	NTACT			
Т	-								NCY NU.
0		Kin Slaughter.: 15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an	575-887-404 I Hereby declare that d labeled, and are in al	the contents of this co	onsignme andition fo	nt are full	y and accur rt by highw		
ĺ	ļ	international and national government regulations, in							
R		PRINTED/TYPED NAME		SIGNATURE					
	_	16. TRANSPORTER (1)		17.		DANCD	ORTER (2)		
R							ORIER(2)		
A N		NAME: TALON LPE		NAME:		ł			
S		TEXAS I.D. NO.		TEXAS I.D. NO.					
P O		IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	RGENC	Y COŃTA 	ACT:		
R		EMERGENCY PHONE: (512 18. TRANSPORTER (1): Acknowledgment (	2) 873-7429.	EMERGENCY PH 19. TRANSPO		(7) · A'ak	nowledgment o	f receipt of n	naterial
T E							now reagancia e	t receipt of it	
R	Ł	SIGNATURE ALLOS SILCE	<u>~~/////</u>	PRINTED/TYPEI					
S		SIGNATURE Millo Silver	DATE 3/17	2018NATURE				DATE	
			ADDRESS:				PHONE		
D	F	Lea Land, LLC		Marker 64, U		•	80,	575-88	37-4048
I	Â	PERMIT NO.	<u>30 N</u>	Ailes East of C	arlsba	<u>4, NM</u>	<u> </u>		
S P	WM-01-035 - New Mexico								
O S A	L I T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such to	CATION: I Hereby of wastes.	certify that the above of	lescribed	wastes	ere delivered to	this facility,	that the
L	Y	AUTHORIZED SIGNATURE		CELL NO.		DA	TE	ТІ	ME
	(ALC) X						3/17/2016		140
GEN	JER	ATOR: COPIES 1 & 6	DISPOSAL SIT	E: COPIES 2 & 3			TRAN	SP	
			00	101/ 4		1			

	LEA LAND DIS MILE MARKER #64 US HWY				1		XIC	0
	1300 WEST MAIN ST	REET • OKLAHOM		PHONE (	405) 236-4	4257	ien	ini
NÖ	NHAZARDOUS WASHENTANID	EST NO	113904	1. PA		2. TRAIL	ER NO.	213
6	3. COMPANY NAME	4. ADDRESS	Dial # 100		5.	PICK-UP DATE		
G.	Energy Transfer Co. PHONE NO.	CITY	ra Elvd. #400 STATE		ZIP 6.	3/17/2016 TNRCC I.D. NO		
E	(210) 403-7300	San Antonio	TX	782		111000 1.D. 110	•	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE		10	8. CON	TAINERS		IO. UNIT	11. TEXAS
N	<sup>a.</sup> Non-Regulated, Non Hazardous W			No. . 1	Type CM	QUANTITY	Wt/Vol.	WASTE ID #
	b.		·····	·   •				
Е				<u> </u>				
	¢	•						
R	dWT: 4()24()							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P	ROFILE N	0.
A	CAL A B LAUNCHER.job # 70158314	14.02						
1			SENCY OR SPIL	L, CO	NTACT	· · · · · · · · · · · · · · · · · · ·		
Т	NAME	PHONE NO				24-HOUR	EMERGE	NCY NO.
	Kin Slaughter 15.GENERATOR'S CERTIFICATION:	575-887-40		nsianme	t are fulls	and securately	described a	hove by proper
0	shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in a	Il respects in proper co	ondition fo	or transpor	t by highway acc	ording to a	pplicable
	PRINTED/TYPED NAME		SIGNATURE					DATE
R			bioliticite					2102
T	16. TRANSPORTER (1)		17.	TI	ANSPO	ORTER (2)		
R	NAME:		NAME:					
Ň	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT: ROB		Į.	ERGENC	Y CONTA	CT:		
Ō		BIE DerOSIER 2) 873-7429	EMERGENCY PH			· · · · · ·		_
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPO	RTER	(2): Aċkr	nowledgment of	eceipt of m	aterial
E R	PRINTED/TYPED NAME/KOAN		PRINTED/TYPE	D NAME				
S	SIGNATURE Scan D	DATE 3/11	2018			г	ATE	
<b>—</b>		ADDRESS:				PHONE:		
	Lea Land, LLC		e Marker 64, U	.S. Hw	y 62/1		575-88	7-4048
D F I A		4	Miles East of C		-	-		
s c	PERMIT NO.		20. COMMENTS		1			!
P I O L	WM-01-035 - New Mer	(100						
S I A T			certify that the above	described	wastes we	re delivered to t	nis facility,	that th <del>e</del>
LY	ALETHON DED SIGNATURE		CELL NO.			TE	TI	ME
	NDAL 4 X		<			3/17/2018		145
GENE	RATOR: COPIES I & 6	DISPOSAL SIT	TE: COPIES 2 & 3			TRANSI	ORTERS:	COPIES 4 & 5

	LEA LAND DI MILE MARKER #64 US HV				— i	-		XIC	U	
	1300 WEST MAIN	LEA LA	<b>ND, LLC</b> a city, ok 73106 • 1	PHONE (	405) 23	6-425	, (		2 m.	
ŇŐ	NHAVZARDOUS/WASTIFIN'AN	INC NO	113905	1. PA	GE	OF	2. TRAII	LER NO.	322	
G	3. COMPANY NAME Energy Transfer Co. PHONE NO.	4. ADDRESS	•			3/	CK-UP DATE			
E	(210) 403-7300 7. NAME OR DESCRIPTION OF WASTE SHIP	San Antonio	х	782		RS	9. TOTAL	10. UNIT	11, TEX/	
		'PED:		No.	Тур		QUANTITY	Wt/Vol.	WASTE II	
N	<sup>a.</sup> Non-Regulated, Non Hazardous	Waste		1.	СМ		<u>.</u>			
E	с.	<u>.</u>				+				
R	WT: 43680			 			<u></u>			
A	12. COMMENTS OR SPECIAL INSTRUCTION CAL A B LAUNCHER job # 701583					1	3. WASTE P	ROFILEN	0.	
		CASE OF EMERG	ENCY OR SPIL	L, CO	NTAC	T				
Т	NAME PHONE NO 24-HOUR EMERGENCY NO. Kin Slaughter 575-887-4048									
0	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, international and national government regulations	N: I Hereby declare that and labeled, and are in a	the contents of this co Il respects in proper co	ondition fo	or transj	port by	y highway acc	ording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE						DATE	
Т	16. TRANSPORTER (1)	)	17.	т	ANS	POF	TER (2)			
			1	11						
R A	NAME:	-	NAME:							
A N		<u> </u>	NAME: TEXAS I.D. NO.	11						
A N S P	NAME: TEXAS I.D. NO.	E DBBIE DeROSIER	TEXAS I.D. NO.				7:			
A N S P O R	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC	BBIE DeROSIER	TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PE	ERGENC <u>{ONE:</u>	Y CON	TACI		receipt of n	aterial	
A N S P O R T E	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC	BBIE DeROSIER	TEXAS I.D. NO.	ergenc <u>Ione:</u> RTER	Y CON (2): A	TACI		receipt of n	aterial	
A N S P O R T	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC	BBIE DeROSIER	TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PF 19. TRANSPO	ergenc <u>Ione:</u> RTER	Y CON (2): A	TACI	ledgment of r	receipt of n	aterial	
A N S P O R T E R	NAME: TALON LPE TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: (5)	BBIE DeROSIER	TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPE	ergenc <u>Ione:</u> RTER	Y CON (2): A	TACI	ledgment of r		aterial	
A N S P O R T E R S	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME Ch. 1.2 A SIGNATURE Ch. 1.2 A Lea Land, LLC	DBBIE DeROSIER 012).073-7429 nt of receipt of material 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0	TEXAS I.D. NO. IN CASE OF EMI <u>EMERGENCY PH</u> 19. <b>TRANSPO</b> PRINTED/TYPE 2018NATURE e Marker 64, U	ergenc <u>ione:</u> RTER D NAME	Y CON (2): A 	TACI	Pedgment of r	DATE	naterial	
A N S P O R T E R S F A	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME EM. 1.0 R. SIGNATURE EM. 1.0 R. Lea Land, LLC	DBBIE DeROSIER 012).073-7429 nt of receipt of material 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0120 0	TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPE 2018 NATURE Marker 64, U Miles East of C	ergenc <u>ione:</u> RTER D NAME	Y CON (2): A 	TACI	Pedgment of r	DATE		
ANSPORTERS FAC	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME CH. 1.2 A SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New M	DBBIE DeROSIER 12).673-7429 nt of receipt of material DATE 3/17 ADDRESS: Mile 30 1	TEXAS I.D. NO. IN CASE OF EMI <u>EMERGENCY PH</u> 19. <b>TRANSPO</b> PRINTED/TYPE 2018NATURE e Marker 64, U	ergenc <u>ione:</u> RTER D NAME	Y CON (2): A 	TACI	Pedgment of r	DATE		
A N S P O R T E R S O F A C	NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RC EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgme PRINTED/TYPED NAME Ch. 1.2 R SIGNATURE Lea Land, LLC PERMIT NO. WM-01-035 - New M 21.DISPOSAL FACILITY'S CERTIF	DBBIE DeROSIER 12).673-7429 nt of receipt of material DATE 3/17 ADDRESS: Mile 30 I dexico ICATION: I Hereby	TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPE 20:18NATURE Marker 64, U Miles East of C 20. COMMENTS	ERGENC <u>IONE:</u> RTER D NAME S. Hw arlsbac	y con (2): A 7y 62/ 1, NM	TAC1	PHONE:	575-88	7-4048	

			EAST OF CARLSBA					
	1300 WEST N	LEA LA	<b>ND, LLC</b> MA CITY, OK 73106 •	PHONE (	405) 236-4	257	) nen	Nati
NON	HAZARDOUS WASTEM	ANIFEST, NO	113906	1. <b>PA</b>	GEOF	2. TRAIL	LER NO.	317
G	3. COMPANY NAME Energy Transfer Co. PHONE NO.	4. ADDRESS 800 E. Sonte CITY	erra Blvd. #400 STATE			PICK-UP DATE 3/17/2016		
E	(210) 403-7300	San Antonio	TX	782		9. TOTAL	10. UNIT	11. TEXAS
N	7. NAME OR DESCRIPTION OF WASTE <sup>a.</sup> Non-Regulated, Non Hazarda			No. 1	Туре СМ	QUANTITY	Wt/Vol.	WASTE ID
E	b.							
R	awi: 28.820							
A	12, COMMENTS OR SPECIAL INSTRUC CAL A B LAUNCHER job # 70			1	L	13. WASTE P	I ROFILE N	0. 
т	NAME	IN CASE OF EMER PHONE NO		.L, COI	NTACT	24-HOUR	EMERGE	NCY NO.
0	Kin Slaughter 15.GENERATOR'S CERTIFICAT shipping name and are classified, packed, mainternational and national government regula	arked, and labeled, and are in	at the contents of this c all respects in proper co	ondition fo	or transport	by highway acc	cording to a	pplicable
R	PRINTED/TYPED NAME		SIGNATURE					DATE
T	16. TRANSPORTEI	R (1)	17.	TI	RANSPO	RTER (2)		
T R A N S	NAME: TALON TEXAS I.D. NO.	LPE_	NAME: TEXAS I.D. NO.	TH	RANSPO	ORTER (2)		
R A N S P O	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	ROBBIE DeROSIE	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PI	ERGENC' <u>IONE;</u>		CT:		
R A N S P O R T E R	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT:	LPE ROBBIE DeROSIE (512).673-7429 dgment of receipt of materia D. Reglaric	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PI 1 19. TRANSPO PRINTED/TYPE	ergenc ione: RTER	Y CONTAG	CT:	receipt of n	
R A N S P O R T E	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> 18. <b>TRANSPORTER (1):</b> Acknowle	LPE ROBBIE DeROSIE (512).673-7429 dgment of receipt of materia D. Reglaric	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PI 1 19. TRANSPO	ergenc ione: RTER	Y CONTAG	CT:	receipt of n	 naterial
R A N S P O R T E R	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> 18. TRANSPORTER (1): Acknowle PRINTED/TYPED NAME Robert	LPE ROBBIE DeROSIE (512).673-7429 dgment of receipt of materia D. Roglovic State DATE ADDRESS: Mi	NAME: TEXAS I.D. NO. IN CASE OF EMI <u>EMERGENCY PI</u> 1 19. <b>TRANSPO</b> PRINTED/TYPE 72018 SIGNATURE	ergenc <u>ione:</u> RTER d name	Y CONTAG (2): Ackno (2): Y 62/18	CT: owledgment of t	DATE	naterial
R A N S P O R T E R S D F A C F I S P I	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> 18. TRANSPORTER (1): Acknowle PRINTED/TYPED NAME <u>PODEC</u> SIGNATURE	LPE ROBBIE DeROSIE (512).673-7429 dgment of receipt of materia D. Roglovict Address: Mi 30	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PI 1 19. TRANSPO PRINTED/TYPE SIGNATURE	ergenc <u>ione:</u> RTER d name	Y CONTAG (2): Ackno (2): Y 62/18	CT: owledgment of t	DATE	
RANSPORTERS DFAC	NAME: <u>TALON</u> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE:</u> 18. TRANSPORTER (1): Acknowle PRINTED/TYPED NAME <u>Robert</u> SIGNATURE <u>HOME FORE</u> Lea Land, LLC PERMIT NO.	LPE         ROBBIE DeROSIER         (512).673-7429         dgment of receipt of materia         D. Roglovic         Address:         Mill         30         v Mexico         TTIFICATION: 1 Hereb	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PI 1 19. TRANSPO PRINTED/TYPE SIGNATURE IE Marker 64, U Miles East of C 20. COMMENTS	ergenc HONE RTER D NAME	Y CONTAG (2): Ackno (2): Ackno (2	CT: pwledgment of t PHONE: 30,	DATE 575-88	37-4048

	Manifest			-
Receive Date	Number	Lease Name	Weight (lbs.)	Weight (Tons)
3/21/2016	113973	Cal A B Launcher	39,740	19.87
3/22/2016	114005	Cal A B Launcher	27,780	13.89
3/22/2016	114006	Cal A B Launcher	35,180	17.59
3/22/2016	114012	Cal A B Launcher	35,520	17.76
3/22/2016	114015	Cal A B Launcher	35,760	17.88
3/23/2016	114040	Cal A B Launcher	76,400	38.20
3/23/2016	114041	Cal A B Launcher	52,360	26.18
		Cal A B Launcher	302,740	151.37
			lbs.	Tons

### **Energy Transfer Weights Statement - Total Received**

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	LEA LAND DIS MILE MARKER #64 US HWY (							CO
	1300 WEST MAIN STR		AND, LLC MA CITY, OK 73106	PHONE (	(405) 23(	5-4257	~	
NON	HAZARDOUSWASTE MANNER	ST NO	113973	1. PA	GEC	DF 2. TF	AILER NO.	180901
		4. ADDRESS				5. PICK-UP D		
G	Energy Transfer Co.		erra Blvd. #400			3/21/201		
	PHONE NO. (210) 403-7300	CITY San Antonio	STATE TX	782	ZIP   6 258 \	5. TNRCC I.D	NU.	
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED				TAINER	S 9. TOTA	L 10. UNI	T 11. TEXAS
				No.	Туре	QUANTI	TY Wr/Vol	WASTE ID #
N	a. Non-Regulated, Non Hazardous Was	ste		1.	СМ			
	b.			}				
E	¢.	<u></u>				_		
_	AWT: ZOTAN							
R	12. COMMENTS OR SPECIAL INSTRUCTIONS:				L	13 WAST	E PROFILE	NO
A	CAL A B LAUNCHER job # 701583144	4:02						
			GENCY OR SPIL	.L, CO	NTAC	<u>r</u>	UR EMERG	
Т	NAME Kin Slaughter	PHONE NO 575-887-4	048			24-110	JOK EMEKO	ENCY NO.
0	15.GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, inc	labeled, and are in	all respects in proper co	ondition f	or transp	ort by highway	according to	applicable
R	PRINTED/TYPED NAME		SIGNATURE					DATE
Т	16. TRANSPORTER (1)		17.	T	RANSI	PORTER (	2)	
R	NAME: TALON LRE		NAME:					
N	TEXAS I.D. NO.		TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT: ROBB	IE DeROSIE	R IN CASE OF EM	ERGENC	Y CON	TACT:		
0		073-7429	EMERGENCY PI	HONE:				_
R T	18. TRANSPORTER (1): Acknowledgment of	f receipt of materia			(2): Ac	knowledgmen	t of receipt of	material
E	PRINTED/TYPED NAVIE 311 RUSS	<u>.                                    </u>	PRINTED/TYPE	D NAME				
R S	SIGNATURE BID Rep	3/2 DATE	21/2018 			<u> </u>	DATE	
		ADDRESS:				РНО		
DF	Lea Land, LLC		ile Marker 64, U Miles East of C		•	1	575-8	87-4048
I A S C	PERMIT NO.		20. COMMENTS			L		
P I O L	WM-01-035 - New Mexi	ico						
S I A T	21. DISPOSAL FACILITY'S CERTIFICA facility is authorized and perpendent to receive such we	ATION: I Hereb astes.	y certify that the above	described	wastes	were delivered	to this facilit	r, that the
LY	AUTHORIZED SIGNATURE		CELL NO.		D.	ATE		ÎME
(	/ IMATAN LIT			·		3/21/201		20
GENER	ATOR: COPIES 1 & 6	DISPOSAL S	ITE <sup>,</sup> COPI					

	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 · 30 MILES EAST OF CARLSBAD, NM · PHONE (575) 887-4048										
	1300 WEST MAIN ST		<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	(405) 236-4	257	10				
NÓN	HAZARDOUSWASTEMANIE	EST NO	114005	1. PA	GEOF_	2. TRAJI	.ER NO.	142			
	3. COMPANY NAME	4. ADDRESS			1	PICK-UP DATE					
G	Energy Transfer Co. PHONE NO.	800 E. Sonter	ra Blvd. #400 STATE			3/22/2016	).				
Е	(210) 403-7300	San Antonio	.TX	782			-				
~	7. NAME OR DESCRIPTION OF WASTE SHIPPE				TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	<sup>a.</sup> Non-Regulated, Non Hazardous Wa	aste		1	CM						
	b.										
E	c.	<sup></sup>									
R	awr: JUJAD		<u></u>	<u></u>							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:		<u> </u>	d	<b></b>	13. WASTE P	ROFILE N	0.			
Α	CAL A B LAUNCHER job # 70158314	· · · · ·		···							
Т	I4. IN CA NAME	SE OF EMERG	ENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.			
	Kin Slaughter	575-887-40	18								
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, ir	d labeled, and are in a	Il respects in proper co	ndition f	or transport	by highway acc	ording to a	pplicable			
R	PRINTED/TYPED NAME		SIGNATURE		<u>untini </u>			DATE			
T	16. TRANSPORTER (1)		17.	 TI	PANSPO	ORTER (2)					
R			NAME:	11		KI EK (2)		i			
A N	TEXAS I.D. NO.		TEXAS I.D. NO.								
S P	IN CASE OF EMERGENCY CONTACT: ROB		IN CASE OF EME	ERGENC	Y CONTAG	CT:					
0	1	2) 673-7420 ·	EMERGENCY PH								
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPO		(2): Ackno	owledgment of	receipt of m	aterial			
E R	PRINTED/TYPED NAME DILL SI	ES	PRINTED/TYPEI	D NAME				<u></u>			
s	SIGNATURE , AND SHARE	DATE 3/22	2016 SIGNATURE			I	DATE				
	<u> </u>	ADDRESS:	<u> </u>	<u></u>	<u>.                                    </u>	PHONE:		. <u></u>			
DF	Lea Land, LLC	l .	e Marker 64, U		•	80,	575-88	7-4048			
ΙΑ	PERMIT NO.	301	Viles East of C	arisba	a, NM	<u> </u>					
S C P I O L	WM-01-035 - New Mex	tico									
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such	CATION: I Hereby wastes.	certify that the above of	described	wastes wer	e delivered to the	nis facility,	that the			
LY	AUTHORIZED SIGNATURE		CELL NO.	/	DATI		TI	ME			
	1 Juntar Y Untiveros		· ·			3/22/2018	14	-5			
GENER	LATOR: COPIES I & 6		E: COPIES 2 & 3			TRANSI	ORTERS:	COPIES 4 & 5			

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		LEA LAND DIS MILE MARKER #64 US HWY						XIC	0			
		1300 WEST MAIN S	LEA LA	<b>ND, LLC</b> a city, ok 73106 • 1	PHONE (	405) 236-	4257	Jon	noi			
ÎN	ÖN	HAZARDOUS WASTE MANU	EST NO	114006	1. PA	GEOF	2. TRAII	LER NO.	313			
G		3. COMPANY NAME Energy Transfer Co.	4. ADDRESS 800 E. Sonter	ra Blvd. #400	J		PICK-UP DATE 3/22/2018					
Е		PHONE NO. (210) 403-7300	CITY San Antonio	STATE TX	782		TNRCC I.D. NO	),				
	- f	7. NAME OR DESCRIPTION OF WASTE SHIPP	ED:		8. CON No.	TAINERS	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N		<sup>a</sup> Non-Regulated, Non Hazardous W	/aste ·		1.	СМ						
E		b. c.										
R		dWT: 35,181)					<u> </u>					
A		Image: Comments or special instructions:       13. Waste profile NO.         CAL A.B LAUNCHER job # 701583144.02       13. Waste profile NO.										
	ŀ	IN CASE OF EMERGENCY OR SPILL, CONTACT       NAME     PHONE NO       24-HOUR EMERGENCY NO.										
Т		Kin Slaughter 575-887-4048										
Q	)	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LANI										
R	2	PRINTED/TYPED NAME		SIGNATURE DATE								
Τ		16. TRANSPORTER (1)	·····	17. TRANSPORTER (2)								
R	- 1			NAME:								
N	1	TEXAS I.D. NO.		TEXAS I.D. NO.								
S P		IN CASE OF EMERGENCY CONTACT. ROE	BIE DeROSIER	IN CASE OF EMI	ERGENC	Y CONTA	CT:					
C		EMERGENCY PHONE: (51	2) 673-7429	EMERGENCY PHONE:								
R T		18. TRANSPORTER (1): Acknowledgment	of receipt of material	19. TRANSPO	RTER	(2): Ack	nowledgment of	receipt of n	naterial			
	<b>۱</b> ا	PRINTED/TYPED NAME	<u> </u>	PRINTED/TYPE	D NAME							
S		signature a an J	DATE	2016 SIGNATURE		_		DATE				
D	F	Lea Land, LLC		e Marker 64, U		•	80, PHONE:	575-88	37-4048			
I S P	A C I	PERMIT NO. WM-01-035 - New Me		Viles East of C	ai 150a(	1, 1NIVI	I					
O S A	L I T	21. <b>PISPOSAL FACILITY'S CERTIFI</b> facility is authorized and permitted to receive such	CATION: 1 Hereby wastes.	certify that the above	described	wastes we	ere delivered to t	his facility,	that the			
	$\mathbf{v}$	AUTHORIZED SIGNATURE		CELL NO.	-	DA	ге 3/22/2016	Т	ME 1) 35			
L		J IVILLA VIAINEROS	DIODOGAL COM					PORTERS	COPIES 4 & 5			
GEſ	NER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			HCANS.	i okreka:	COLIES 4 64 2			

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	MILE MARKER #64 US HV	WY 62/180 * 30 MILES I	EAST OF CARLSBA	D, NM • I	HONE (	575) 887-4048	<u> </u>		
	1300 WEST MAIN	LEA LA STREET • OKLAHOM	ND, LLC	PHONE (	405) 236-	4257	Į	r	
NO	NeHAZARDOUSWASTEMAN		114012		GE_OF	<u> </u>	Jer NO	<u>200</u>	
	3. COMPANY NAME	4. ADDRESS				PICK-UP DATE	ς		
G	Energy Transfer Co.	800 E. Sonten	ra Blvd. #400			3/22/2018	-		
	PHONE NO.	CITY	STATE		ZIP 6.	TNRCC I.D. NO	).		
E	(210) 403-7300	San Antonio	ТХ	782	58 TAINERS	9. TOTAL	10. UNIT	11. TEX	
	7. NAME OR DESCRIPTION OF WASTE SHIP	PPED:		No.	TAINERS	QUANTITY	Wt/Vol.	WASTE I	
N	a Non-Regulated, Non Hazardous	Waste		1	СМ				
E	b.			[					
L	с.								
R	WT: 3550)								
	12. COMMENTS OR SPECIAL INSTRUCTION			J		13, WASTE P	ro	L	
A	CAL A B LAUNCHER job # 701583	3144.02							
		CASE OF EMERG	ENCY OR SPIL	LL, COI	NTACT				
Т	NAME Kin Slaughter	PHONE NO 575-887-404	18			24-HOUR EM R			
0	15.GENERATOR'S CERTIFICATION shipping name and are classified, packed, marked, international and national government regulations	N: I Hereby declare that and labeled, and are in a	the contents of this co il respects in proper co	ondition fo	or transpor	t by highway acc	cording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE	E					
ĸ									
Т	16. TRANSPORTER (1)		17. TRANSPORTER (2)						
_	16. TRANSPORTER (1)	)	17.	TE	RANSPO	ORTER (2)			
R A	NAME: TALON LPE		17. NAME:	TF	RANSPO	ORTER (2)			
A N				TI	RANSPO	ORTER (2)			
A N S P	NAME: TALON LPE	<u>.</u>	NAME:						
A N S P O	NAME: TALON LPE TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RO EMERGENCY PHONE: (5	BBIE DeROSIER	NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH	ERGENC' <del>IONE</del> :	Y CONTA	NCT-			
A N S P O R T	NAME:       TALON LPE         TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT: RO         EMERGENCY PHONE:       (5)         18. TRANSPORTER (1); Acknowledgme	BBIE DeROSIER 12) 673-7429 nt of receipt of material	NAME: TEXAS I.D. NO. IN CASE OF EMI	ERGENC' <del>IONE</del> :	Y CONTA	NCT-	receipt of m	aterial	
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A N S P O R T E R S C F I A S C P I I S I S	NAME: TALON LPE TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: RO EMERGENCY PHONE: (5 18. TRANSPORTER (1); Acknowledgme PRINTED/TYPED NAMY FULLOR SIGNATURE Lea Land, LLC PERMIT NO. 21. DISPOSAL FACILITY'S CERTHE facility is authorized and permitted to receive suc	BBIE DeROSIER (12) 673-7429 Int of receipt of material (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/22) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2) (3/2)	NAME: TEXAS I.D. NO. IN CASE OF EMI <u>EMERGENCY PH</u> 19. <b>TRANSPO</b> PRINTED/TYPEI 2016 SIGNATURE Marker 64, U Miles East of C 20. COMMENTS	ergenc <del>Ione:</del> <b>RTER</b> D NAME (.S. Hw arlsbac	y conta (2): Ackr y 62/11 1, NM	CT- nowledgment of i PHONE: 80, ere delivered to the	олте 575-88	7-4048	

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G Energy Transfer Co. 800 E. Sonterra Blvd. #400	2. TRAILER NO.         8000           5. PICK-UP DATE         3/22/2016           6. TNRCC I.D. NO.         8           RS         9. TOTAL         10. UNIT         11. TEXAS           9. UANTITY         Wt/Vol.         WASTE ID #
3. COMPANY NAME     4. ADDRESS       Benergy Transfer Co.     800 E. Sonterra Blvd. #400       PHONE NO.     1       E     (210) 403-7300       7. NAME OR DESCRIPTION OF WASTE SHIPPED:       N       a.       Non-Regulated, Non Hazardous Waste	S. PICK-UP DATE           3/22/2018           6. TNRCC I.D. NO.           RS         9. TOTAL           QUANTITY         Wt/Vol.           Wt/Vol.         WASTE ID #
G     Energy Transfer Co. PHONE NO.     800 E. Sonterra Blvd. #400 CITY       E     (210) 403-7300     San Antonio     TX     78259       7. NAME OR DESCRIPTION OF WASTE SHIPPED:     8. CONTAINER No.     8. CONTAINER Type       N     Non-Regulated, Non Hazardous Waste     1     CM	3/22/2016 6. TNRCC I.D. NO. RS 9. TOTAL 10. UNIT 11. TEXAS QUANTITY Wt/Vol. WASTE ID #
E     (210) 403-7300     CITY     STATE     ZIP       7. NAME OR DESCRIPTION OF WASTE SHIPPED:     8. CONTAINER       N     a. Non-Regulated, Non Hazardous Waste     1     CM	6. TNRCC I.D. NO. RS 9. TOTAL 10. UNIT 11. TEXAS QUANTITY Wt/Vol. WASTE ID #
E     (210) 403-7300     San Antonio     TX     78258       7. NAME OR DESCRIPTION OF WASTE SHIPPED:     8. CONTAINER No.     8. CONTAINER No.     7926       N     a.     Non-Regulated, Non Hazardous Waste     1     CM	QUANTITY Wt/Vol. WASTE ID #
No.     Type       N     a.       Non-Regulated, Non Hazardous Waste     1       CM	QUANTITY Wt/Vol. WASTE ID #
N <sup>a,</sup> Non-Regulated, Non Hazardous Waste 1 CM	
b.	
E	
$\mathbf{R} \stackrel{\text{d.WT:}}{\longrightarrow} 35710$	
12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.
A CAL A B LAUNCHER job # 701583144.02	
14. IN CASE OF EMERGENCY OR SPILL, CONTAC	Γ
T NAME PHONE NO	24-HOUR EMERGENCY NO.
Kin Slaughter         575-887-4048           15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fu shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transp international and national government regulations, including applicable state regulations, and are the same materia	ort by highway according to applicable
R PRINTED/TYPED NAME SIGNATURE	DATE
T 16. TRANSPORTER (1) 17. TRANSI	PORTER (2)
R	
A NAME: TALON LPE NAME: TEXAS I.D. NO. TEXAS I.D. NO.	
S       P       IN CASE OF EMERGENCY CONTACT:       ROBBLE DeROSIER       IN CASE OF EMERGENCY CONTACT:	TACT
0 (512) 673-7429 EMERGENCY PHONE	
R T 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Ac	knowledgment of receipt of material
E PRINTED/TYPED NAME RIJ RIGON PRINTED/TYPED NAME	
R S SIGNATURE BUD RUGAL DATE 3/22/2018 SIGNATURE	DATE
ADDRESS:	PHONE:
Lea Land, LLC Mile Marker 64, U.S. Hwy 62/	180, 575-887-4048
D F 30 Miles East of Carlsbad, NM	
S C     PERMIT NO.       P I     WM-01-035 - New Mexico	
O L S I 21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes	were delivered to this facility, that the
A T facility is authorized and permitted to receive such wastes.	
AUTHORIZED SIGNATURE	
GENERATOR: COPIES 1 & 6 DISPOSAL SITE: COPIES 2 & 3	3/22/2018

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	1300 WEST MAIN			ND, LLC MA CITY, OK 73106 •	PHONE (	405) 236-4	1257 TA	Inn	
N÷Ę	AZARDOUSWASTEMIAN	VIFES	I NO	114040	1. PA	GEOF	2. TRAII	LER NO.	8D9n
3. (	COMPANY NAME nergy Transfer Co.	4. A	DDRESS	erra Blvd. # 400			PICK-UP DATE 3/23/2016		
1	ONE NO.		Y	STATE		ZIP 6.	TNRCC I.D. NC	),	
	210) 403-7300	S	an Antonio	TX	782	58 TAINERS	9. TOTAL	10. UNIT	11. TEXAS
1.1	VAME OR DESCRIPTION OF WASTE SHI	IPPED:			No.	Туре	QUANTITY	Wt/Vol.	WASTE ID
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V	VT: 37.900 38	50	)	r			·		_
	COMMENTS OR SPECIAL INSTRUCTIO					4, <u></u>	13. WASTE P	ROFILE N	<u>о</u> .
С	AL A B LAUNCHER job # 70158	33144.0	2 -	Ta 71	, 4E	$\mathcal{O}$			
14.	IN ME		OF EMER	GENCY OR SPIL	L, CO	NTACT	24 110110	EMERGE	
nn.	Kin Slaughter	ri	575-887-4	148			24-1008	. EMERGE	NCT NO.
shij	GENERATOR'S CERTIFICATIO oping name and are classified, packed, marked	JINI I Hei	reby declare th		<b>`````</b>	ni are nuiv			
	rnational and national government regulation	d, and lab ns, includi	eled, and are in	all respects in proper co	ondition fo	or transport	t by highway acc	ording to a	pplicable
'n	rnational and national government regulation	ns, includi	eled, and are in	all respects in proper co tate regulations, and are SIGNATURE	ondition fo	or transport materials	t by highway acc previously appro	ording to a	pplicable A LAND, LL
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PR. 16 N/ TH IN EN 18	TRANSPORTER (1 TRANSPORTER (1 AME: <u>TALON LPH</u> EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: (	ns, includi 1) 0BBIE (512) 8	eled, and are in ng applicable s DeROSIEI 73-7429	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH	milition fo the same TH ERGENC <u>IONE:</u> <b>RTER</b>	Y CONTA	t by highway acc previously appro DRTER (2) CT: owledgment of t	ereceipt of m	pplicable A LAND, LL DATE
PR 16 N/ TE 18 PF	TRANSPORTER (1) TRANSPORTER (1) AME: <u>TALON LPP</u> EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: ( TRANSPORTER (1): Acknowledgm	ns, includi 1) 0BBIE (512) 8	DeROSIE 73-7429 reipt of materia	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPE	milition fo the same TH ERGENC <u>IONE:</u> <b>RTER</b>	Y CONTA	t by highway acc previously appro DRTER (2) CT: owledgment of i	ereceipt of m	pplicable A LAND, LL, DATE
PR 16 N/ TF 18 18	TRANSPORTER (1 AME: TALON LPR EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: ( TRANSPORTER (1): Acknowledgm RINTED/TYPED NAME BILL GNATURE CALL	ns, includi	DeROSIE 73-7429 reipt of materia	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. R IN CASE OF EMI EMERGENCY PH 19. <b>TRANSPO</b>	mdition fo the same TH ERGENC <u>IONE:</u> <b>RTER</b>	Y CONTA	t by highway acc previously appro DRTER (2) CT: owledgment of i	ereceipt of m	pplicable A LAND, LL, DATE
PR 16 N/ TF 18 18	TRANSPORTER (1 AME: TALON LPI EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: ( TRANSPORTER (1): Acknowledgm RINTED/TYPED NAME 3// (	ns, includi	DeROSIE DeROSIE 73-7429 reipt of materia DEROSIE 3/2 MDDRESS: M	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPE 32016 ISIGNATURE SIGNATURE He Marker 64, U	TH ERGENC IONE: RTER D NAME	Y CONTA (2): Ackn	by highway acc previously appro DRTER (2) CT: owledgment of t	receipt of m	pplicable A LAND, LL DATE
PR 16 N/ TI IN EN 18 SI	TRANSPORTER (1 AME: TALON LPR EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: ( TRANSPORTER (1): Acknowledgm RINTED/TYPED NAME BILL GNATURE CALL	ns, includi	DeROSIE DeROSIE 73-7429 reipt of materia D TE 3/2 MDRESS: M 30	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. R IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPEI 3 2016	TH ERGENC IONE: RTER D NAME	Y CONTA (2): Ackn	by highway acc previously appro DRTER (2) CT: owledgment of t	receipt of m	DATE
PR If N/ TH IN EN IN EN IS PF 21.	TRANSPORTER (1 AME: TALON LPI EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RC MERGENCY PHONE: ( TRANSPORTER (1): Acknowledgm RINTED/TYPED NAME BILL GNATURE BILL Lea Land, LLC	ns, includi	DeROSIE DeROSIE 73-7429 reipt of materia DDRESS: M 30 IE 30	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPEI 32016 SIGNATURE IE Marker 64, U Miles East of C 20. COMMENTS	TI ERGENC IONE: RTER D NAME	Y CONTA (2): Ackn y 62/18	by highway acc previously appro DRTER (2) CT: owledgment of r BO, PHONE:	receipt of m DATE	pplicable A LAND, LL DATE
PR It N/ TE IN EN 18 PF SI PE 21. fac	TRANSPORTER (1 AME: TALON LPH EXAS I.D. NO. CASE OF EMERGENCY CONTACT: RO MERGENCY PHONE: (1): TRANSPORTER (1): Acknowledger UNTED/TYPED NAME 3 // (K GNATURE 3 // (K GNATURE 3 // (K GNATURE 3 // (K CRMIT NO. WM-01-035 - New N DISPOSAL FACILITY'S CERTIN	ns, includi	DeROSIE DeROSIE 73-7429 reipt of materia DDRESS: M 30 IE 30	all respects in proper co tate regulations, and are SIGNATURE 17. NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. TRANSPO PRINTED/TYPEI 32016 SIGNATURE IE Marker 64, U Miles East of C 20. COMMENTS	TI ERGENC IONE: RTER D NAME	Y CONTA (2): Ackn y 62/18	t by highway acc previously appro DRTER (2) CT: owledgment of r BO, PHONE: Ro, PHONE:	receipt of m DATE 575-88	pplicable A LAND, LL DATE

	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
	1300 WEST MAIN ST		ND, LLC A CITY, OK 73106 • 1	PHONE (	(405) 23(	5-4257	TA	IDN			
NON	HAZARDOUSWASTEMANI	EST NO	114041	1. PA	.GEC	OF	2. TRAIL	LER NO.	142		
	3. COMPANY NAME	4. ADDRESS			!	5. PICK-	UP DATE	•	· · / <u>//</u>		
G	Energy Transfer Co.		та Blvd. #400				/2018				
	PHONE NO.		STATE			5. TNRC	C I.D. NO	).			
E	(210).403-7300	<u>San Antonio</u>	TX.		258	<u>s 9.1</u>	TOTAL	10. UNIT	11. TEXAS		
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	:D: 		No.	Турс		ANTITY	Wt/Vol.	WASTE ID #		
N	<sup>a.</sup> Non-Regulated, Non Hazardous W	aste		1	СМ						
E	b.										
Ľ,	c.										
R	WT: 27580 217	80			<u> </u>						
	12. COMMENT'S OR SPECIAL INSTRUCTIONS	:		<b>.</b>	<u> </u>	13.	WASTE P	ROFILE N	0.		
A	CAL A B LAUNCHER job # 7015831	44.02	a 523	LiD			-				
			ENCY OR SPIL	L, CO	NTAC'			EMERCE			
Т	NAME Kin Slaughter	PHONE NO 57 <b>5-887-4</b> 0	48				24-HOUR	EMERGE	NCT NO.		
.0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	I Hereby declare that id labeled, and are in a	the contents of this co il respects in proper co	ndition f	or transp	ort by hi	ghway acc	cording to a	pplicable		
R	PRINTED/TYPED NAME		SIGNATURE DATE								
T	16. TRANSPORTER (1)		17.	T	RANSI	PORTI	ER (2)				
R	NAME:		NAME:								
A N	TALON LPE		TEXAS I.D. NO.								
s				EDGENC		CACT-					
P O	IN CASE OF EMERGENCY CONTACT: ROB	BIE DeROSIER 2) 673-7429	l								
R T	EMERGENCY PHONE: (51, 18. TRANSPORTER (1): Acknowledgment		EMERGENCY PH 19. TRANSPO		( <b>2</b> ): Ac	knowled	gment of	receipt of n	naterial		
E	PRINTED/TYPED NAME , DILLY	STIFES	PRINTED/TYPE	D NAME							
R S	Ally Alter		ļ								
Ľ_	SIGNATURE	DATE 3/2.	SIGNATURE				I				
	I as I as A II O	ADDRESS:			- (2)	100	PHONE:		010		
DF	Lea Land, LLC		e Marker 64, U Miles East of C		•			5/5-00	37-4048		
I A S C	PERMIT NO.		20. COMMENTS	411304	<u>u, 1111</u>	<u> </u>					
P I O L	WM-01-035 - New Mex	K1CO			_						
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		certify that the above	described	wastes '	were deli	ivered to t	his facility,	that the		
ĹŸ	AUTHORIZED SIGNATURE	Λ	CELL NO.		D	ATE		TI	ME		
	Montos Monor	les.				3/23	/2016		11.15		
GENER	ATOR: COPIES 1 & 6	<u> </u>	TE: COPIES 2 & 3				TRANS	PORT	IES 4 & 5		

**APPENDIX V-SEED LABEL** 

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Curtis and Curtis, Inc. 4500 North Prince Clavis, NM 88101 Phone: (575) 762-4759 www.curtisseed.com

, X Pay

Talon / LPE, LTD 4 Acre BLM #1, Drilled Rate 2 - 2 Acre Bags @ 18.93 Bulk Pounds Each Job "SUG Cal AB Launcher 701583.144.02 Eddy Cty"

÷	Lot# M-13521			· .					,	
1	1.00#, M-13521						Total_	Test	Total <u>PLS</u>	}
	<u>Item</u>	Ori	<u>ln</u>	Purity	Germ	<u>Dormant</u>	Germinstion	<u>Date</u>	<u>Pounds</u>	
	Blue Grama VNS	New M	fexico	17.61%	88.00%	2.00%	90.00%	03/16	6.00	
	Sand Dropseed	New N	lexico	11.01%	23.00%	73.00%	96.00%	11/15	4.00	ł
	VNS Sideoats Grama El Reno	Te»	(25	53.91%	98.00%	0.00%	98.00%	09/15	20.00	
	Other Crup: Weed Seed:	0.21% 0.28%	The This	re Are 2 B s Bag Weij	ags For This ths 18.93 Bu	s Mix Ik Pounds	Total Bulk P	ounds:	38	
:	Inert Matter:	16.98%			For 2 Acres	•				
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	• .									l
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Jere . Curtis and Curtis, Inc. 4500 North Prince Clavis, NMI 88101 Rhone: (575) 762-4759 www.curtisseed.com Q, E Talon / LPE, LTD 4 Acre BLM #1, Drilled Rate 2 - 2 Acre Bags @ 18.93 Bulk Pounds Each Job "SUG Cai AB Launcher 701583.144.02 Eddy Cty" Lot# M-13521 Ĩ, ..... <u>Total Test</u> Dormant Germination Date <u>ltem</u> <u>Orlgin</u> Purity Totel PLS Germ Pounds ; Blue Grama New Mexico 17.61% 88.00% 2.00% 90.00% VNS Sand Dropseed 03/16 6.00 I New Mexico 11.01% 23.00% 73.00% 96.00% VNS 1 11/15 4.00 Sideoats Grama El Reno Texas 53.91% 98.00%/ 0.00% 98.00% 09/15 20.00 Other Crop: Weed Seed: 0.21% There Are 2 Bags For This Mix This Bag Weighs 18.93 Bulk Pounds Use This Bag For 2 Acres Total Bulk Pounds: 0.28% 38 Inert Matter.

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### **APPENDIX VI-LABORATORY RESULTS**

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### Analytical Report 501565

for Talon/LPE Co.

Project Manager: Melissa Decker

Cal AB Launcher

701583.144.01

27-FEB-15

Collected By: Client





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)





27-FEB-15

Project Manager: Melissa Decker Talon/LPE Co. 2901 S State Highway 349 Midland, TX 79706

Reference: XENCO Report No(s): 501565 Cal AB Launcher Project Address: Malaga,NM

### Melissa Decker:

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) 501565. 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. 501565 will be filed for 60 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.

snectfully.

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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### Sample Cross Reference 501565



### Talon/LPE Co., Midland, TX

Cal AB Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG-1	S	01-30-15 10:00	- 0 ft	501565-001
W-1 Draw	W	01-29-15 23:00		501565-002
W-1 Draw Voa	W	01-29-15 23:03		501565-003
S-1-0'	S	01-29-15 23:09	- 0 ft	501565-004
S-2-0'	S	01-29-15 23:12	- 0 ft	501565-005
S-3-0'	S	01-29-15 23:16	- 0 ft	501565-006
S-4-0'	S	01-30-15 09:30	- 0 ft	501565-007
S-5-0'	S	01-30-15 09:32	- 0 ft	501565-008
S-6-0' Draw	S	01-30-15 09:34	- 0 ft	501565-009
S-1-0' Draw	S	01-29-15 23:25	- 0 ft	501565-010
S-2-0' Draw	S	01-29-15 23:30	- 0 ft	501565-011
S-3-0' Draw	S	01-29-15 23:35	- 0 ft	501565-012
S-4-0' Draw	S	01-30-15 09:40	- 0 ft	501565-013
S-5-0' Draw	S	01-30-15 09:45	- 0 ft	501565-014
Sump	S	01-29-15 23:40		501565-015

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Client Name: Talon/LPE Co. Project Name: Cal AB Launcher

 Project ID:
 701583.144.01

 Work Order Number(s):
 501565

Report Date: 27-FEB-15 Date Received: 01/30/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Project Id: 701583.144.01 Contact: Melissa Decker

### Certificate of Analysis Summary 501565 Talon/LPE Co., Midland, TX

Project Name: Cal AB Launcher



Date Received in Lab: Fri Jan-30-15 03:12 pm Report Date: 27-FEB-15

Prniect Location: Malaga NM					Report Date: 27-FEB-15	27-FEB-15	
					Project Manager: 4	Kelsey Brooks	
	Lab Id:	501565-001	501565-002	501565-003	501565-004	501565-005	501565-006
Andwis Domontad	Field Id:	. BG-1	W-1 Draw	W-1 Draw Voa	,0-1-S	S-2-0'	S-3-0'
naisanhay esclutur	Depth:	ΟĤ			0 អ	0 ft	0 ft
	Matrix:	SOIL	WATER	WATER	SOIL	SOIL,	SOIL
	Sampled:	Jan-30-15 10:00	Jan-29-15 23:00	Jan-29-15 23:03	Jan-29-15 23:09	Jan-29-15 23:12	Jan-29-15 23:16
BTEX by EPA 8021B	Extracted:	- i		Jan-30-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00
	Analyzed:			Jan-30-15 21:34	Feb-03-15 09:31	Feb-03-15 09:47	Feb-03-15 04:04
	Units/RL:			mg/L RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene				0.309 0.00100	1.49 0.249	ND 0.249	ND 0.000998
Toluene				0.395 0.00200	22.5 0.498	10.0 0.498	ND 0.00200
Ethylbenzene				0.0447 0.00100	9.47 0.249	6.19 0.249	ND 0.000998
m,p-Xylenes					42.6 0.498	32.3 0.498	ND 0.00200
o-Xylene				0.129 0.00100	18.3 0.249	10.9 0.249	ND 0.000998
Total Xylenes				0.469 0.00100	60.9 0.249	43.2 0.249	ND 0.00098
Total BTEX				1.22 0.00100	94.4 0.249	59.4 0.249	ND 0.000998
Inorganic Anions by EPA 300/300.1	Extracted:	Feb-07-15 12:00	Jan-31-15 13:36		Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00
SUB: E871002	Analyzed:	Feb-08-15 04:52	Jan-31-1513:36		Feb-08-15 05:07	Feb-08-15 05:22	Feb-08-15 14:42
	Units/RL:	mg/kg RL			mg/kg RL	mg/kg RL	mg/kg RL
Chloride		121 13.3	21000 1000		247 24.1	474 44.4	5200 498
Mercury by EPA 7470A	Extracted:			Feb-04-15 10:00			
SUB: T104704295-TX	Analyzed:			Feb-04-15 12:45			
	Units/RL:			mg/L RL			
Mercury				ND 0.000500			
Mercury by SW 7471A	Extracted:				Feb-04-15 10:00	Feb-04-15 10:00	Feb-04-15 10:00
SUB: T104704295-TX	Analyzed:				Feb-04-15 14:14	Feb-04-15 14:16	Feb-04-15 14:18
	Units/RL:						1
Mercury					0.0385 0.00356	0.0255 0.00318	0.0939 0.00371

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 juggment of XENCO Laboratories. XENCO Laboratories ussumes 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.

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Version: 1.%

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Final 1.001

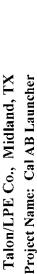
12al

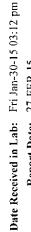
Kunz Wo



Contact: Melissa Decker Project Id: 701583.144.01

## **Certificate of Analysis Summary 501565** Talon/LPE Co., Midland, TX





Project Location: Malaga.NM					Report Date: 27-FEB-15	27-FEB-15	
					Project Manager: 1	Kelsey Brooks	
	Lab Id:	\$01565-001	501565-002	501565-003	501565-004	501565-005	501565-006
Analucie Danuactad	Field 1d:	BG-1	W-1 Draw	W-I Draw Voa	S-1-0'	S-2-0'	S-3-0'
naicanhay ciclinity	Depth:	0 ft			0 Ĥ	U U	0 0
	Matrix:	SOIL	WATER	WATER	SOIL	SOIL.	SOIL
	Sampled:	Jan-30-15 10:00	Jan-29-15 23:00	Jan-29-15 23:03	Jan-29-15 23:09	Jan-29-15 23:12	Jan-29-15 23:16
Metals per ICP by SW846 6010B	Extracted:	Feb-03-15 09:30		Feb-03-15 06:15	Feb-03-15 09:30	Feb-03-15 09:30	Feb-03-15 09:30
SUB: T104704295-TX	Analyzed:	Feb-03-15 13:20		Feb-03-15 12:37	Feb-03-15 13:22	Feb-03-15 13:32	Feb-03-15 13:34
	Units/RL:	mg/kg RL		mg/L RL	mg/kg RL	mg/kg RL	mg/kg RL
Arsenic		2.38 0.574		ND 0.100	4.60 0.580	1.55 0.538	4.10 0.612
Barium		148 0.574		1.38 0.100	248 0.580	137 0.538	552 0.612
Cadmium		ND 0.287		ND 0.0500	0.389 0.290	ND 0.269	0.428 0.306
Chromium		5.97 0.287		0.0730 0.0500	4.61 0.290	3.10 0.269	8,17 0.306
Lead		7.06 0.688		ND 0.120	13.3 0.697	5.91 0.646	9.35 0.735
Selenium		ND 0.574		ND 0.100	ND 0.580	ND 0.538	ND 0.612
Silver		ND 0.229		ND 0.0400	ND 0.232	ND 0.215	ND 0.245
Percent Moisture	Extracted:						
	Analyzed:	Feb-02-15 17:15			Feb-02-15 17:15	Feb-02-15 17:15	Feb-02-15 17:15
	Units/RL:	% RL			% RL	% RL	% RL
Percent Moisture		24.9 1.00			17.2 1.00	9.85 1.00	00.1 6.61
TPH By SW8015 Mod	Extracted:			** ** **	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00
	Analyzed:			Feb-02-15 10:05	Feb-03-15 09:26	Feb-03-15 09:48	Feb-02-15 23:16
	Units/RL:			mg/L RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons				270 15.0	2870 74.9	1960 74.9	ND 14.9
C12-C28 Diesel Range Hydrocarbons				3140 15.0	13300 74.9	9110 74.9	558 14.9
C28-C35 Oil Range Hydrocarbons				16.0 15.0	1630 74.9	1110 74.9	70.1 14.9
Total TPH				3430 15.0	17800 74.9	12200 74.9	628 14.9

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 main/itidal prostn represson the besi jugment of XINCO Laboratories. XENCO Laboratorics assumes no reponsibility 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.

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Page 6 of 35

Kelsey Brooks Project Manager

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Project Id: 701583.144.01 Contact: Melissa Decker

### Certificate of Analysis Summary 501565 Talon/LPE Co., Midland, TX



Project Name: Cal AB Launcher

Date Received in Lab: Fri Jan-30-15 03:12 pm Remort Date: 27-FFB-15 •

Project Location: Malaga NM					Report Date: 27-FEB-15	7-FEB-15	
					Project Manager: k	Kelsey Brooks	
	Lab Id:	501565-007	501565-008	501565-009	501565-010	501565-011	501565-012
A and here Decembered	Field 1d:	S-4-0'	S-5-0'	S-6-0' Draw	S-1-0' Draw	S-2-0' Draw	S-3-0' Draw
United and the second	Depth:	υŰ	0 ft	0 0	0 0	0 0	0 0
	Matrix:	TIOS	SOIL	SOIL.	SOIL	SOIL,	SOIL
	Sampled:	Jan-30-15 09:30	Jan-30-15 09-32	Jan-30-15 09:34	Jan-29-15 23:25	Jan-29-15 23:30	Jan-29-15 23:35
BTEX by EPA 8021B	Extracted:	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16:00
	Analyzed:	Feb-03-15 04:20	Feb-03-15 12:09	Feb-03-15 04:53	Feb-03-15 05:09	Feb-03-15 05:26	Feb-03-15 05:42
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.00092	ND 0.00100	0.00111 0.000994	0.00148 0.000996	0.00169 0.000996	0.00189 0.000996
Tolucne		86100'0 CIN	ND 0.00200	0.00285 0.00199	0.00330 0.00199	0.00286 0.00199	0.00424 0.00199
Ethylbenzene		ND 0.000992	ND 0.00100	ND 0.000994	9660000 CIN	966000'0 CIN	0.00379 0.000996
m,p-Xylenes		ND 0.00198	ND 0.00200	0.00223 0.00199	0.00212 0.00199	66100'0 CIN	0.0288 0.00199
o-Xylene		266000:0 CIN	ND 0.00100	ND 0.000994	0.00208 0.000996	ND 0.000996	0.0326 0.000996
Total Xylenes		ND 0.000922	ND 0.00100	0.00223 0.000994	0.00420 0.000996	ND 0.000966	0.0614 0.000996
Total BTEX		ND 0.00092	ND 0.00100	0.00619 0.000994	0.00898 0.000996	0.00455 0.000996	0.0713 0.000996
Inorganic Anions by EPA 300/300.1	Extracted:	Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00
SUB: E871002	Analyzed:	Feb-08-15 06:24	Feb-08-15 07:10	Feb-08-15 14:57	Feb-08-15 15:12	Feb-08-15 15:28	Feb-08-15 15:43
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10.7 2.39	828 55.7	937 75.3	232 25.9	353 27.4	62.2 11.3
Mercury by SW 7471A	Extracted:	Feb-04-15 10:00	Feb-04-15 10:00	Feb-04-15 10:00	Feb-04-15 10:00	Feb-04-15 10:00	Feb-04-15 10:00
SUB: T104704295-TX	Analyzed:	Feb-04-15 14:20	Feb-04-15 14:22	Feb-04-15 14:24	Feb-04-15 14:26	Feb-04-15 14:28	Feb-04-15 14:31
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Mercury		0.0396 0.00327	0.0179 0.00371	0.0323 0.00561	0.00632 0.00383	0.00860 0.00418	0.00878 0.00351

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Kelsey Brooks Project Manager

Munz Moah



## Certificate of Analysis Summary 501565 Talon/LPE Co., Midland, TX





Project Id: 701583.144.01 Contact: Melissa Decker Project Location: Malaga,NM

### Date Received in Lab: Fri Jan-30-15 03:12 pm Report Date: 27-FEB-15

Project Location: Malaga.NM						Keport Date: 2/-FEB-15	17.1-17 :0	CI-2		
						Project Manager:	r: Kelsey Brooks	Brooks		
	Lab 1d:	501565-007	501565-008	~	501565-009	501565-010		501565-011	501565-012	-012
Analysis Dogustad	Field 1d:	S-4-0'	S-5-0'		S-6-0' Draw	S-1-0' Draw	Ś	S-2-0' Draw	S-3-0' Draw	Draw
notes that electrony	Depth:	0 U	0 8		0 ft	0 U		0 A	0 <del>U</del>	
	Matrix:	NOS	SOIL		SOIL	SOIL		SOIL	SOIL	L
	Sampled:	Jan-30-15 09:30	Jan-30-15 09:32	32	Jan-30-15 09:34	Jan-29-15 23:25		Jan-29-15 23:30	Jan-29-15 23:35	23:35
Metals per ICP by SW846 6010B	Extracted:	Feb-03-15 09:30	Feb-03-15 09:30	:30	Feb-03-15 09:30	Feb-03-15 09:30		Feb-03-15 09:30	Feb-03-15 09:30	5 09:30
SUB: T104704295-TX	Analyzed:	Feb-03-15 13:37	Feb-03-15 13:39	:39	Feb-03-15 13:42	Feb-03-15 13:44		Feb-03-15 13:46	Feb-03-15 13.49	13.49
	Units/RL:	mg/kg RL	_ mg/kg	RL	mg/kg RL	mg/kg I	RL mg	mg/kg RL	mg/kg	RL
Arsenic		3.22 0.565	3.16	0.645	5.31 0.812	2.43	0.549	4.81 0.641	1 2.28	0.536
Barium		224 0.565	55 176	0.645	173 0.812	166 0.	0.549	114 0.641	1 142	0.536
Cadmium		0.407 0.282	32 0.323	0.323	0.430 0.406	CIN	0.274	0.359 0.320	ON 0	0.268
Chromium		5.86 0.282	5.18	0.323	8.65 0.406	3.76	0.274	4.47 0.320	2.73	0.268
Lead		11.4 0.678	78 9.31	0.775	8.75 0.974	4,49	0.659	6.51 0.769	9 3.14	0.643
Seleníum		ND 0.565	S5 ND	0.645	ND 0.812	QN	0.549	ND 0.641	- GN	0.536
Silver		0.265 0.226	26 0.684	0.258	ND 0.325	QN	0.220	ND 0.256	QN 9	0.214
Percent Moisture	Extracted:						 			
	Analyzed:	Feb-02-15 17:15	Feb-02-15 17:15	:15	Feb-02-15 17:15	Feb-02-15 17:15		Feb-02-15 17:15	Feb-02-15 17:15	5 17:15
	Units/RL:	% RL	%	RL	% RL	%	RL	% RL	%	RL
Percent Moisture		16.5 1.00	0 28.3	1.00	46.9 1.00	22.8 1	1.00	27.1 1.00	0 11.2	1.00
TPH By SW8015 Mod	Extracted:	Feb-02-15 16:00	Feb-02-15 16:00	:00	Feb-02-15 16:00	Feb-02-15 16:00		Feb-02-15 16:00	Feb-02-15 16:00	5 16:00
	Analyzed:	Feb-02-15 23:38	Feb-03-15 00:46	:46	Feb-03-15 01:09	Feb-03-15 01:32		Feb-03-15 10:11	Feb-03-15 10:34	5 10:34
	Units/RL:	mg/kg RL	L mg/kg	RI.	mg/kg RL	mg/kg	RL mg	mg/kg RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND 15.0	0 20.1	15.0	98.5 15.0		15.0	527 75.0	1140	74.9
C12-C28 Diesel Range Hydrocarbons		ND 15.0	0 1670	15.0	3160 15.0	1660 1	15.0	11500 75.0	) 13600	74.9
C28-C35 Oil Range Hydrocarbons		ND 15.0	0 123	15.0	195 15.0	149 1	15.0	933 75.0	981	74.9
Total TPH		ND 15.0	0 1810	15.0	3450 15.0	1870	15.0	13000 75.0	0 15700	74.9

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Project Id: 701583.144.01 Contact: Melissa Decker

### Certificate of Analysis Summary 501565 Talon/LPE Co., Midland, TX

Project Name: Cal AB Launcher



Date Received in Lab: Fri Jan-30-15 03:12 pm Report Date: 27-FEB-15

Project Location: Malaga,NM				Report Da	Report Date: 27-FEB-15
				Project Manager:	er: Kelsey Brooks
	Lab Id:	501565-013	501565-014	501565-015	
Analycis Donnostad	Field Id:	S-4-0' Draw	S-5-0' Draw	Sump	
naicanhau ciclinut	Depth:	0 <del>A</del>	0 Ĥ		
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Jan-30-15 09:40	Jan-30-15 09:45	Jan-29-15 23:40	
BTEX by EPA 8021B	Extracted:	Feb-02-15 16:00	Feb-02-15 16:00	Feb-02-15 16.00	
	Analyzed:	Feb-03-15 05.59	Feb-03-15 06:15	Feb-03-15 08:10	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		ND 0.000992	0.00155 0.000994	6.63 1.25	
Toluene		86100 0 ON	0.00592 0.00199	125 2.50	
Ethylbenzene		ND 0.000992	ND 0.000994	43.6 1.25	
m,p-Xylenes		ND 0.00198	0.0144 0.00199	205 2.50	
o-Xylene		ND 0.000992	0.00634 0.000994	77.7 1.25	
Total Xylenes		ND 0.000992	0.0207 0.000994	283 1.25	
Total BTEX -		ND 0.000992	0.0282 0.000994	458 1.25	
Inorganic Anions by EPA 300/300.1	Extracted:	Feb-07-15 12:00	Feb-07-15 12:00	Feb-07-15 12:00	
SUB: E871002	Analyzed:	Feb-08-15 15:59	Feb-08-15 16:14	Feb-08-15 17:00	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		45.0 2.62	371 35.5	3710 998	
Mercury by SW 7471A	Extracted:	Feb-04-15 10:00	Feb-04-15 10.00	Feb-04-15 10:00	
SUB: T104704295-TX	Analyzed:	Feb-04-15 14:37	Feb-04-15 14:39	Feb-04-15 14:41	
	Units/RL:	mg/kg RL	mg/kg RL	ıng/kg RI.	
Mercury		0 00525 0.00398	0.0213 0.00541	0.0166 0.00313	

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Rund Moah Kelsey Brooks Project Manager

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### **Certificate of Analysis Summary 501565** Talon/LPE Co., Midland, TX



Contact: Melissa Decker Project 1d: 701583.144.01 Project Location: Malaga.NM

# Project Name: Cal AB Launcher

Date Received in Lab: Fri Jan-30-15 03:12 pm Report Date: 27-FEB-15

013 501565-014 Draw S-5-0° Draw 0 ft N SOIL, SOIL, SOIL, SOIL, SOIL, 100-30-15 09:3 6 09:30 Feb-03-15 09:3 13:5 8 13:52 Feb-03-15 09:3 13:5 RL mg/kg 0.637 13:58 0 0.319 0.424 0 0.255 0.424 0 0.319 5.70 0 185 0 1				
Analysis Requested         Field Id.         S-4-0 Draw         S-5-0 Draw <th< th=""><th></th><th>501565-014</th><th>501565-015</th><th></th></th<>		501565-014	501565-015	
Trutury as A requires vera         Deptit:         0 ft         0 ft <th0 ft<="" th="">         0 ft         0 ft</th0>		S-5-0' Draw	Sump	
Matrix:         SOII.		0 11		
Sampled:         Jan-30-15 09:40         Jan-30-15 09:00           Metalls per ICP by SW846 6010B         Extracted:         Feb-03-15 09:30         Feb-03-15 09:30           SUB: T104704295-TX         Analyzed:         Feb-03-15 13:52         Feb-03-15 09:30         Feb-03-15 09:30           SUB: T104704295-TX         Analyzed:         Feb-03-15 13:52         Feb-03-15 09:30         Feb-03-15 09:30           SUB: T104704295-TX         Manbyzed:         Extracted:         Feb-03-15 13:22         Feb-03-15 13:32           im         SUB: T104704295-TX         Analyzed:         Policy         XL         mg/kg         RL         mg/kg           im         Main         ND         0.637         185         0.424         ND           im         Main         ND         0.637         185         7.60           um         ND         0.637         185         7.60           um         ND         0.637         7.60         7.60           um         ND         0.635		SOIL	SOIL	
Metalls per ICP by SW846 6010B         Extracted:         Feb-03-15 19: 52         Feb-03-15 13: 52         Feb-03-15 17: 50         MD         0.424         MD         MD         0.424         MD         MD         0.424         MD	Jan-30-15 09:40	an-30-15 09:45	Jan-29-15 23:40	
SUB: T104704295-TX         Analyzed:         Feb-03-15 13:52         Feb-03-15 13:52         Feb-03-15 13:13           ic $Units/RL:$ $mg/kg$ $RL$ $mg/kg$ $RL$ $mg/kg$ in $120$ 0.637         3.58 $3.58$ $3.58$ in $120$ 0.637 $185$ $3.54$ in $120$ 0.637 $185$ $3.54$ nium $120$ 0.637 $185$ $3.50$ nium $120$ 0.637 $185$ $0.424$ nium         ND $0.576$ $760$ $0.744$ $0.0424$ $8.09$ $0.319$ $0.424$ $9.437$ $0.010$ $Mndyzedt$ $Feb-02-15 17.15$ $Feb-02-15 16.17$ $9.43.7$ $0.010$ $Mndyzedt$ $Feb-02-15 16.00$ $Feb-02-15 16.17$ $9.366$ $9.37$ $0.010 $ $Mndyzedt$ $Feb-02-15 16.00$ $Feb-02-15 16.16$ $9.37$ $0.010 $ $Mndyzedt$ $Feb-02-15 16.00$ $Feb-02-15 16.16$ $9.37$	Feb-03-15 09:30	cb-03-15 09:30	Feb-03-15 09:30	
Inits/RL:         mg/kg         RL         mg/kg           n $2.77$ $0.637$ $3.58$ n $2.77$ $0.637$ $3.58$ nium $0.440$ $0.319$ $0.424$ nium $0.440$ $0.319$ $0.424$ nium $0.440$ $0.319$ $0.424$ nium $0.440$ $0.319$ $0.424$ nium $0.410$ $0.319$ $0.424$ nium $0.744$ $0.765$ $7.60$ um         ND $0.537$ ND           um         ND $0.537$ $ND$ um         ND $0.537$ $ND$ um         ND $0.537$ $ND$ um         ND $0.235$ $0.424$ Percent Moisture         Extracted:         Feb-02-1517 $7.60$ um/soture $0.034$ $9.67$ $9.75$ $9.37$ It Moisture $0.038$ $0.025$ $0.43.7$ $9.37$ $9.37$ TPH By SW8015	Feb-03-15 13:52	eb-03-15 13:54	Feb-03-15 14:03	
ic $2.77$ $0.637$ $3.58$ in $120$ $0.57$ $185$ inim $0.440$ $0.319$ $0.424$ inim $0.440$ $0.319$ $0.424$ inim $0.440$ $0.319$ $0.424$ inim $0.440$ $0.319$ $0.424$ inim $0.440$ $0.57$ $0.424$ inim $0.440$ $0.557$ $0.424$ inim $0.440$ $0.557$ $0.424$ inim $0.440$ $0.557$ $0.424$ inim $0.414$ $0.765$ $0.424$ inim $ND$ $0.557$ $0.424$ inim $ND$ $0.557$ $ND$ inim $ND$ $0.253$ $0.424$ Percent Moisture $Extracted:     Feb-02-15173       i Moisture     2.3.8 1.00 43.7       i Moisture$	mg/kg RL		mg/kg RL	
n     120     0.637     185       nium     0.440     0.319     0.424       nium     8.09     0.319     0.424       nium     8.09     0.319     0.424       nium     8.09     0.319     0.424       nium     8.09     0.319     0.424       nin     7.44     0.765     7.60       um     ND     0.637     ND       um     ND     0.255     0.424       num     ND     0.255     0.424       Percent Moisture     Extracted:     Feb-02-15 17:15     7.60       1 Moisture     2.38     1.00     43.7       1 Moisture     2.38     1.00     7.43       1 Moisture     2.38     1.00     43.7       1 Moisture     2.38     1.00     7.31       1 Moisture     2.38     1.00     7.35       1 Moisture     2.38     1.00     7.31       2 Gasoline Range Hydrocarbons     1.300     809       2 Stringer Pornor Hydrocarbons     1.8     1.360			ND 0.249	
ium $0.440$ $0.319$ $0.424$ nium $8.09$ $0.319$ $0.424$ nium $7.44$ $0.765$ $7.60$ um $ND$ $0.357$ $ND$ um     ND $0.637$ $ND$ um     ND $0.255$ $0.424$ um     ND $0.765$ $7.60$ um     ND $0.255$ $0.424$ Percent Moisture     Extracted:     Feb-02-15 17:15     Feb-02-15 17:15       It Moisture $2.38$ $1.00$ $43.7$ It Moisture $2.3.8$ $1.00$ $43.7$ It Moisture $2.3.8$ $1.00$ Feb-02-15 16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:10:10:10:10:10:10:10:10:10:10:10:10:			1.49 0.249	
nium     8.09     0.319     5.70       um $7.44$ $0.763$ $7.60$ um     ND $0.657$ ND       um     ND $0.657$ ND       um     ND $0.557$ ND       value     ND $0.255$ $0.424$ Percent Moisture     Extracted:     Feb-02-15 17:15     Feb-02-15 17:15       It Moisture     2.3.8     1.00     43.7       It Moisture     2.3.8     1.00     Feb-02-15 16:16:16       TPH By SW8015 Mod     Extracted:     Feb-02-15 16:00     Feb-02-15 16:16:16       It Moisture     2.3.8     1.00     Feb-02-15 16:10:16:16:10       It Moisture     2.3.8     1.00     Feb-02-15 16:10:16:10       It Moisture     2.3.8     1.00     Feb-02-15 16:10:16:10       It Moisture     2.3.8     1.00     Feb-02-15 16:10:16:10       It Moisture     2.3.8     1.00     Feb-02-15 16:10:10:10:10:10:10:10:10:10:10:10:10:10:			ND 0.124	
um     7,44     0.765     7,60       um     ND     0.637     ND       mun     ND     0.537     ND       Percent Moisture     Extracted:     0.424       Analyzed:     Feb-02-15 17:15     Feb-02-15 17:15       Analyzed:     Feb-02-15 17:15     %       It Moisture     23.8     1.00     43.7       TPH By SW8015 Mod     Extracted:     Feb-02-15 16:00     Feb-02-15 16:16       Analyzed:     Feb-02-15 16:00     Feb-02-15 16:16     43.7       TPH By SW8015 Mod     Extracted:     Feb-02-15 16:16     43.7       23.8     1.00     7.60     5.0     5.0       23.8     1.00     Feb-02-15 16:16     43.7       23.8     1.00     Feb-02-15 16:16     7.60       23.8     1.00     Feb-02-15 16:16     7.60       23.8     1.00     Feb-02-15 16:16     1.50       23.8     1.00     Feb-02-15 16:16     7.60       24.1     Feb-02-15 16:17     Feb-02-15 16:16     7.60       25.1     Feb-03-15 00:17     Feb-02-15 16:16<	l		0.323 0.124	
um     ND     0.637     ND     0       Percent Moisture     Extracted:     ND     0.255     0.424     0       Percent Moisture     Extracted:     Feb-02-15 17:15     Feb-02-15 17:15       It Moisture     23.8     1.00     43.7       TPH By SW8015 Mod     Extracted:     Feb-02-15 16:00     Feb-02-15 16:00       It Moisture     23.8     1.00     43.7       TPH By SW8015 Mod     Extracted:     Feb-02-15 16:00     Feb-02-15 16:00       It Moisture     23.8     1.00     43.7       It Moisture     23.8     1.00     Feb-02-15 16:00       It Moisture     1.01     Extracted:     Feb-02-15 16:00       It Moisture     1.00     MultivRL:     mg/kg       It Moisture     1.00     Feb-02-15 16:00     Feb-02-15 16:00       It mit/FL:     mg/kg     RL     mg/kg       It may     MultivRL:     mg/kg     RL     mg/kg       It mit/FL:     mg/kg     RL     mg/kg     15.0     15.00			ND 0.299	
ND         0.255         0.424         0           Percent Moisture         Extracted:         Feb-02-15 17:15         Feb-02-15 17:15           Analyzed:         Feb-02-15 17:15         %         %           It Moisture         Units/RL:         %         %         %           TPH By SW8015 Mod         Extracted:         Feb-02-15 16:00         Feb-02-15 16:00         43.7           TPH By SW8015 Mod         Extracted:         Feb-02-15 16:00         Feb-02-15 16:00         78.7           23 8 1.00         Analyzed:         Feb-02-15 16:00         Feb-02-15 16:00         78.7           20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ĺ		ND 0.249	
Extracted:     Feb-02-15 17:15     Feb-02-15 17:15       Analyzed:     Feb-02-15 17:15     Feb-02-15 17:1       Units/RL:     %     RL     %       Od     Extracted:     73.8     1.00     43.7       Od     Extracted:     Feb-02-15 16:00     Feb-02-15 16:00       Analyzed:     Feb-02-15 16:00     Feb-02-15 16:00       Analyzed:     Feb-03-15 02:39     Feb-02-15 10:5       Units/RL:     mg/kg     RL     mg/kg       ND     15.0     809       ND     18.6     15.00			ND 0.0995	
Analyzed:         Feb-02-15 17:15         Feb-02-15 17:1           Units/RL:         %         RL         %           Units/RL:         %         RL         %         43.7           Dd         Extracted:         Feb-02-15 16:00         Feb-02-15 16:00         43.7           Analyzed:         Feb-02-15 16:00         Feb-02-15 16:00         Feb-02-15 16:00           Analyzed:         Feb-03-15 02:39         Feb-03-15 10:5         MR           Units/RL:         mg/kg         RL         mg/kg           ND         15.0         809           ND         18.6         15.01         13500	Extracted:			
Units/RL:     %     RL     %       23.8     1.00     43.7       23.8     1.00     43.7       23.8     1.00     56-02-15 16:00       Extracted:     Feb-02-15 16:00     Feb-02-15 16:0       Analyzed:     Feb-03-15 02:39     Feb-03-15 10:5       Units/RL:     mg/kg     RL     mg/kg       ND     15.0     809       18.6     15.0     13500	Feb-02-15 17:15	eb-02-15 17:15		
23.8     1.00     43.7       0d     Extracted:     Feb-02-15 16:00     Feb-02-15 16:0       Analyzed:     Feb-03-15 02:39     Feb-03-15 10:5       Units/RL:     mg/kg     RL     mg/kg       ND     15.0     809       18.6     18.6     18.60	%			
bd         Extracted:         Feb-02-15 16:00         Feb-02-15 16:0           Analyzed:         Feb-03-15 02:39         Feb-03-15 10:5           Units/RL:         mg/kg         RL         mg/kg           ND         15.0         809           18.6         18.6         13.600				
Analyzed:         Feb-03-15 02:39         Feb-03-15 10:5           Units/RL:         mg/kg         RL.         mg/kg           ND         15.0         809           18.6         15.0         13500	Feb-02-15 16:00	eb-02-15 16:00	Feb-02-15 16:00	
Units/RL: mg/kg RL mg/kg ND 15.0 809 18.6 15.0 13500	Feb-03-15 02:39	eb-03-15 10:56	Feb-03-15 03:25	
ND 15.0 809	mg/kg RL		mg/kg RL	
13.6 15.0 13.600			14300 1500	
	18.6 15.0	13500 74.9	113000 1500	
C28-C35 Oil Range Hydrocarbons ND 15.0 1250 74.9			10600 1500	
Total TPH 18.6 15.0 15600 74.9			138000 1500	

This analytical report, and the entite data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed incoughts analytical report represent the best joinment 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 invoited for this work order unless otherwise agreed to m writing.

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

Version: 1.%

Project Manager Kelsey Brooks

Hurs Moah

Final 1.001

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## **Flagging Criteria**



- 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.

LOD Limit of Detection

LOQ Limit of Quantitation

- \*\* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit,
- **RL** Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



## Project Name: Cal AB Launcher

Work Ord Lab Batch #:		65, Sample: 501565-003 / SMP	Project ID: 701583.144.01 Batch: 1 Matrix: Water						
Units:	mg/L	Date Analyzed: 01/30/15 21:34	SU	RROGATE R	ECOVERY S	STUDY			
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorobe	nzene		0.0354	0.0300	118	80-120			
4-Bromofluoro	benzene		0.0334	0.0300	111	80-120			
Lab Batch #:	960788	Sample: 501565-003 / SMP	Batel	h: 1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 02/02/15 10:05	SU	RROGATE R	ECOVERY S	STUDY			
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctan		Analytes	10.5	0.00		70.125			
o-Terphenyl			12.5	9.99	125	70-135	1		
Lab Batch #:	060001	Sample: 501565-006 / SMP	3.84 Batcl			70-133			
•									
Units:	mg/kg	Date Analyzed: 02/02/15 23:16	SU	RROGATE R	ECOVERY S	STUDY			
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooctan	e		96.8	99.6	97	70-135			
o-Terphenyl			50.1	49.8	101	70-135	i		
Lab Batch #:	960901	Sample: 501565-007 / SMP	Batcl	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 02/02/15 23:38	SU	RROGATE R	ECOVERY S	STUDY			
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1-Chlorooctan	e		93.0	99.9	93	70-135			
o-Terphenyl			46.8	50.0	94	70-135			
Lab Batch #:	960901	Sample: 501565-008 / SMP	Batel	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 02/03/15 00:46	SU	RROGATE R	ECOVERY S	STUDY			
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1 Chlorest		Analytes	101	00.0	_	70.135			
1-Chlorooctan	<del>د</del>		103	99.8	103	70-135			
o-Terphenyl			51.9	49.9	104	70-135			

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits: data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



## Project Name: Cal AB Launcher

	Work Orders : 501565,           Lab Batch #: 960901         Sample: 501565-009 / SMP			Project ID: 701583.144.01 Batch: 1 Matrix: Soil						
Units:	mg/kg	Date Analyzed: 02/03/15 01:09	SURROGATE RECOVERY STUDY							
	трн в	y SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
	A	Analytes			[D]					
1-Chlorooct	tane		104	99.7	104	70-135				
o-Terpheny			51.1	49.9	102	70-135				
Lab Batch	#: 960901	Sample: 501565-010 / SMP	Batch	: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 02/03/15 01:32	SU	RROGATE R	ECOVERY	STUDY				
		y SW8015 Mod Analytes	Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags			
I-Chlorooci	tane		110	99.7	011	70-135				
o-Terpheny	<u>-</u>		54.9	49.9	110	70-135				
Lab Batch	#: 960901	Sample: 501565-013 / SMP	Batch	: 1 Matrix	: Soil					
Units:	mg/kg	Date Analyzed: 02/03/15 02:39	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooct			100	99.8	100	70-135				
o-Terpheny	<u></u>		51.4	49.9	103	70-135				
· · ·	#: 960901	Sample: 501565-015 / SMP	Batch			L	<u> </u>			
Units:	mg/kg	Date Analyzed: 02/03/15 03:25	SUI	RROGATE R		STUDY				
		y SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooct			1190	1000	119	70-135				
o-Terpheny			561	500	112	70-135	····			
	#: 960905	Sample: 501565-006 / SMP	Batch			J	1			
Units:	mg/kg	Date Analyzed: 02/03/15 04:04		RROGATE R		STUDY				
		by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluor			0.0247	0.0300	82	80-120				
4-Bromofly	orobenzene		0.0331	0.0300	110	80-120				

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



## Project Name: Cal AB Launcher

Work Orders : 501565,           Lab Batch #: 960905         Sample: 501565-007 / SMP			Project ID: 701583.144.01 Batch: I Matrix: Soil						
Units:	mg/kg	Date Analyzed: 02/03/15 04:20	SURROGATE RECOVERY STUDY						
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	<b>.</b>	Analytes			[D]				
1,4-Difluoro			0.0269	0.0300	90	80-120			
4-Bromotlue			0.0352	0.0300	117	80-120			
Lab Batch	#: 960905	Sample: 501565-009 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 02/03/15 04:53	su	RROGATE R	ECOVERY S	STUDY			
	BTEX by EPA 8021B Analytes			True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1100		Analytes	0.00(0	0.0700					
1,4-Difluoro			0.0260	0.0300	87	80-120			
4-Bromoflue			0.0309	0.0300	103	80-120			
Lab Batch		Sample: 501565-010 / SMP	Batc						
Units: mg/kg Date Analyzed: 02/03/15 05:0			SU	RROGATE R	ECOVERY S	STUDY			
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluoro			0.0254	. 0.0300	85	80-120			
4-Bromofluo			0.0334	0.0300	111	80-120			
Lab Batch	#: 960905	Sample: 501565-011 / SMP	Batch: 1 Matrix: Soil						
Units:	mg/kg	Date Analyzed: 02/03/15 05:26	SU	SURROGATE RECOVERY STUDY					
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	<u></u>	Analytes	0.0269	0.0200		80.120			
4-Bromoflue			0.0258	0.0300	86	80-120 80-120			
Lab Batch		Sample: 501565-012 / SMP	0.0330	0.0300 h: 1 Matrix		00-120			
Units:	mg/kg	Date Analyzed: 02/03/15 05:42							
		Date Mary200, 02/03/13 03.42	SU	JRROGATE R	ECOVERY				
	BTEZ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluore	benzene		0.0257	0.0300	86	80-120			
4-Bromofiu	I-Bromofluorobenzene			0.0300	118	80-120			

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal AB Launcher

Work Order Lab Batch #: 9		5, Sample: 501565-013 / SMP	Batel		; 701583.144 ; Soil	.01			
Units: n	ng/kg	Date Analyzed: 02/03/15 05:59	SURROGATE RECOVERY STUDY						
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorobenz	ene		0.0249	0.0300	83	80-120			
4-Bromofluorobe			0.0341	0.0300	114	80-120			
Lab Batch #: 9	60905	Sample: 501565-014 / SMP	Batch	a: I Matrix:	: Soil				
Jnits: mg/kg Date Analyzed: 02/03/15 06:15				RROGATE R	ECOVERY S	STUDY			
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
14 Diffurentia		Analytes	0.0074	0.0200		00.100			
1,4-Difluorobenz 4-Bromofluorobe			0.0274	0.0300	91	80-120			
Lab Batch #: 9		Sample: 501565-015/SMD	0.0304 Batch	0.0300 1: 1 Matrix:	101 Soil	80-120			
		Sample: 501565-015 / SMP							
Units: n	ng/kg	Date Analyzed: 02/03/15 08:10	SU	RROGATE R	ECOVERY S	STUDY			
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes							
1,4-Difluorobenz			0.0274	0.0300	91	80-120			
4-Bromofluorobe			0.0311	0.0300	104	80-120			
Lab Batch #: 9		Sample: 501565-004 / SMP	Batch						
Units: n	ng/kg	Date Analyzed: 02/03/15 09:26	SU	RROGATE R	ECOVERY S	STUDY			
	TPH	By \$W8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane			126	99.8	126	70-135			
o-Terphenyl			63.2	49.9	127	70-135			
Lab Batch #: 9	60905	Sample: 501565-004 / SMP	Batcl	1 1: 1 Matrix:	: Soil	I			
Units: n	ng/kg	Date Analyzed: 02/03/15 09:31	SU	RROGATE R	ECOVERYS	STUDY			
	BTEX by EPA 8021B			True Amount  B	Recovery %R	Control Limits %R	Flag		
		Analytes			D				
1,4-Difluorobenz			0.0315	0.0300	105	80-120			
4-Bromofluorobenzene			0.0337	0.0300	112	80-120			

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal AB Launcher

	#: 960905	Sample: 501565-005 / SMP	Batcl				
Jnits:	mg/kg	Date Analyzed: 02/03/15 09:47	SU	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0251	0.0300	84	80-120	
4-Bromollu	orobenzene		0.0333	0.0300	111	80-120	
Lab Batch	#: 960901	Sample: 501565-005 / SMP	Batel	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/03/15 09:48	SU	RROGATE R	ECOVERY	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
i-Chlorooc			115	99.8	115	70-135	
o-Terpheny			47.2	49.9	95	70-135	
	#: 960901	Sample: 501565-011 / SMP	Batel				
Jnits: mg/kg Date Analyzed: 02/03/15 10:11			SU	RROGATE R	ECOVERY	STUDY	
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		102	100	102	70-135	
o-Terpheny	1		39.1	50.0	78	70-135	
Lab Batch	#: 960901	Sample: 501565-012 / SMP	Batel	h: I Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 02/03/15 10:34	SU	RROGATE R	ECOVERY	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooc			105	99.9	105	70-135	
o-Terpheny	#: 960901	Sample: 501565-014 / SMP	45.3 Ratal	- 50.0 h: 1 Matrix	91	70-135	
		-	Batel		_		
Units:	mg/kg	Date Analyzed: 02/03/15 10:56	SU	RROGATE R	ECOVERY S	STUDY	
	TPH By SW8015 Mod			True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes			_		
1-Chlorooc			104	99.9	104	70-135	
o-Terpheny	1		46.2	50.0	92	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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Project Name: Cal AB Launcher

Units:	mg/kg	Data Analyzadi 02/02/15 12:00			noounnu	OTHER	
Units:	ing/kg	Date Analyzed: 02/03/15 12:09	SL	RROGATE R	ECOVERY	STUDY	<u>.</u>
	втеу	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[]	<b>-</b> ]	(D)		
1,4-Difluorob	enzene		0.0251	0.0300	84	80-120	
4-Bromofluor	obenzene		0.0355	0.0300	118	80-120	
Lab Batch #	: 960786	Sample: 667865-1-BLK / BL	K Bate	h: 1 Matrix	: Water		
Units:	mg/L	Date Analyzed: 01/30/15 17:43	su	RROGATE R	ECOVERY	STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob		Analytes	0.0243	0.0300	81	80-120	
4-Bromofluor			0.0243	0.0300	96	80-120	
Lab Batch #		Sample: 667869-1-BLK / BL			; Water	00-120	
Units:	mg/L	Date Analyzed: 01/30/15 19:49		RROGATE R		STUDY	
··						1 1	
	TPH I	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
_		Analytes			[D]		
1-Chlorooctar	ne		11.2	10.0	112	70-135	
o-Terphenyl			5.83	5.00	117	70-135	
Lab Batch #	: 960901	Sample: 667906-1-BLK / BL	K Bate	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 02/02/15 18:12	SU	RROGATE R	ECOVERY	STUDY	
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R  D	Control Limits %R	Flags
		Analytes					
1-Chlorooctar	ie		105	100	105	70-135	
o-Terphenyl	. 960905	Sample: 667913-1-BLK / BL	55.0 K Bate	50.0 h; 1 Matrix	110 • Solid	70-135	
Lab Balch # Units:	mg/kg	Date Analyzed: 02/03/15 02:25					
		Date Analyzeu: 02/03/13 02.23	SU	RROGATE R	ECOVERY S	SIUDY	<u> </u>
BTEX by EPA 8021B			Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags
1402		Analytes					
1,4-Difluorob			0.0263	0.0300	88	80-120	
4-Bromofluor	4-Bromofluorobenzene			0.0300	111	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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## Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

	Work Orders:         501565,           .ab Batch #:         960786         Sample:         667865-1-BKS / E			Project ID: 701583.144.01 BKS Batch: 1 Matrix: Water						
Units:	mg/L	Date Analyzed: 01/30/15 18:00	SURROGATE RECOVERY STUDY							
	BTEX by EPA 8021B			True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluor	obenzene		0.0348	0.0300	116	80-120				
4-Bromoflu	lorobenzene		0.0307	0.0300	102	80-120				
Lab Batch	#: 960788	Sample: 667869-1-BKS / E	KS Bate	h: I Matrix:	Water	•				
Units: mg/L Date Analyzed: 01/30/15 20:11			SU	RROGATE R	ECOVERY S	STUDY				
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
I-Chiorooc	tane		10.3	10.0	103	70-135				
o-Terpheny		· · · ·	5,25	5.00	105	70-135				
		Sample: 667906-1-BKS / E	]	ŀ		70-133				
Units:										
	mg/kg	Date Analyzed: 02/02/15 18:36	su	RROGATE R	ECOVERYS	STUDY				
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooc	tane		124	100	124	70-135	·			
o-Terpheny		·	56.8	50.0	114	70-135				
	#: 960905	Sample: 667913-1-BKS / E				70-135				
Units:		•								
unts:	mg/kg	Date Analyzed: 02/03/15 02:42	su su	RROGATE R	ECOVERY					
	BTĒ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluor	obenzene	·	0.0349	0.0300	116	80-120				
4-Bromotiu	uorobenzene		0.0330	0.0300	110	80-120				
Lab Batch	#: 960786	Sample: 667865-1-BSD / E	SD Bate	h: 1 Matrix:	Water	· ·				
Units:	mg/L	Date Analyzed: 01/30/15 18:16	SU	RROGATE R	ECOVERY S	STUDY				
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount ]B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluor	ohanzana	· · · · · · · · · · · · · · · · · · ·	0.0292	0.0300		80.100				
	uorobenzene				97	80-120				
4-Bromoth	uorobenzene		0.0318	0.0300	106	80-120				

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



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## Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

	r <b>ders :</b> 50150 #: 960788	55, Sample: 667869-1-BSD / BS	D Batch		: 701583.144 : Water	.01			
Units:	mg/L	Date Analyzed: 01/30/15 20:33		RROGATE R	ECOVERYS	STUDY			
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount · [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooct	tane		10.9	10.0	109	70-135			
o-Terpheny	1		5.94	5.00	119	70-135			
Lab Batch	#: 960901	Sample: 667906-1-BSD / BS	D Batch	u: 1 Matrix	: Solid	<u> </u>			
Units:	mg/kg	Date Analyzed: 02/02/15 19:00	SU	RROGATE R	ECOVERY S	STUDY			
TPH By SW8015 Mod Analytes			Amount Found [A]	True Amount [B]	Recovery %R  D}	Control Limits %R	Flags		
1-Chlorooci	tane		128	100	128	70-135			
o-Terpheny			59.5	50.0	128	70-135	· ·		
	#: 960905			<u> </u>	1	70-155			
Units: mg/kg Date Analyzed: 02/03/15 02:58			SURROGATE RECOVERY STUDY						
	ing/kg		50	KRUGATE R		זעטופ			
BTEX by EPA 8021B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[Ð]				
1,4-Difluor	obenzene		0.0346	0.0300	115	80-120			
4-Bromoflu	orobenzene		0.0328	0.0300	109	80-120			
Lab Batch	#: 960786	Sample: 501447-001 S / MS	Batch	n: 1 Matrix	: Water				
Units:	mg/L	Date Analyzed: 01/30/15 18:33	SU	RROGATE R	ECOVERY S	STUDY			
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0294	0.0300	98	80-120			
4-Bromoflu	iorobenzene		0.0313	0.0300	104	80-120			
Lab Batch	#: 960901	Sample: 501574-002 S / MS	Batch	i: 1 Matrix	: Soil	·			
Units:	mg/kg	Date Analyzed: 02/02/15 20:11	SU	RROGATE R	ECOVERY S	STUDY			
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	tane		126	99.9	126	70-135			
o-Terphenyl			· · · · · · · · · · · · · · · · · · ·		<u> </u>				

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



## Project Name: Cal AB Launcher

Work Ore Lab Batch #	<b>lers :</b> 50156 #: 960905	55, Sample: 501565-006 S / N	1S Bate	-	: 701583.144 : Soil	.01			
Units:	mg/kg	Date Analyzed: 02/03/15 03:15	SU	JRROGATE R	ECOVERY	STUDY			
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
		Analytes			101				
1,4-Difluorot			0.0329	0.0300	110	80-120			
4-Bromofluo			0.0360	0.0300	120	80-120			
Lab Batch #	<b>:</b> 960786	Sample: 501447-001 SD /	MSD Bate	h: 1 Matrix	: Water				
Units: mg/L Date Analyzed: 01/30/15 18:49			SU	JRROGATE R	ECOVERY	STUDY			
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
		Analytes			[D]				
1,4-Difluorol	oenzene		0.0291	0.0300	97	80-120			
4-Bromofluorobenzene			0.0315	0.0300	105	80-120			
Lab Batch #	: 960901	Sample: 501574-002 SD /	MSD Bate	h: 1 Matrix	: Soil	I I			
Units:	mg/kg	Date Analyzed: 02/02/15 20:34	SURROGATE RECOVERY STUDY						
	TPH	By SW8015 Mod	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags		
		Analytes		1-1	[D]	,,,,,			
1-Chloroocta	ne		101	99.8	101	70-135			
o-Terphenyl			45.9	49.9	92	70-135			
Lab Batch #	: 960905	Sample: 501565-006 SD /	MSD Bate	h: I Matrix	: Soil	I			
U <b>nits:</b>	mg/kg	Date Analyzed: 02/03/15 03:31	SU	RROGATE R	ECOVERY	STUDY			
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorol	enzene		0.0325	0.0300	108	80-120			
	robenzene		0.0355	0.0300	118	80-120			

\* Surrogate outside of Laboratory QC limits

- \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
- \*\*\* Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 \* A / B



## **Blank Spike Recovery**



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## Project Name: Cal AB Launcher

Work Order #:	501565				Project ID	):	7	01583.144.0
Lab Batch #:	961346		Sample: 688214	-1-BKS	Matrix	x: Solid		
Date Analyzed:	02/08/2015	Date	Prepared: 02/07/2	2015	Analys	t: BHRE		
Reporting Units:	mg/kg		Batch #: 1	BLANK /	BLANK SPI	KE REC	OVERY	STUDY
Inorga	nic Anions by EPA 3	00/300.1	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
	Analytes		[A]	[B]	Result [C]	%R [D]	%R	
Chloride	<b>-</b>		<2.00	20.0	20.6	103	90-110	_

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Project ID: 701583.144.01

Date Analyzed: 01/30/2015 Matrix: Water

RI ANK /RI ANK SPIKE / RI ANK SPIKE DI PI ICATE RECOVERY STI DV Date Prepared: 01/30/2015 Batch #: ] Sample: 667865-1-BKS Work Order #: 501565 Lab Batch ID: 960786 ARM mg/L Analyst: Units:

	ugu.		BLAN	BLANK/BLANK SPIKE/BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE/	BLANK	SPIKE DUPI	ICATE	KECOVI	EKY STUL	Y.	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Beentetki	BJk. Spk Dup. %R	nt ND ND	Control Limits %R	Control Limits %RPD	Flag
Analytes	ytes		a	ы	2	[2]	LT HIRKON	2				
Benzene		<0.00100	0.100	0.0987	66	0.100	0.102	102	я	70-125	25	
Toluene		<0.00200	0.100	0.0958	96	0.100	0.0992	66	т	70-125	25	
Ethylbenzene	auaz	<0.00100	0.100	0.0955	96	0.100	0.0987	66	3	71-129	25	
m,p-Xylenes	:Des	<0.00200	0.200	0.192	96	0.200	0.199	100	4	70-131	25	
o-Xylenc		<0.00100	0.100	0.0986	66	0.100	0.102	102	m	71-133	25	
Analyst:	ARM	Ö	ate Prepar	Date Prepared: 02/02/2015	5			Date A	) :bəzyler	Date Analyzed: 02/03/2015		
Lab Batch ID: 960905	<b>):</b> 960905 <b>Sample:</b> 667913-1-BKS	-I-BKS	Batch #:	n#: 1					Matrix: Solid	solid		
Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / ]	BLANK S	SPIKE DUPI	ICATE	RECOVI	ERY STUI	V	
	BTEX by EPA 8021B	Blank	Spike	Blank Seitee	Blank Snite	Spike	Blank Saite	Blk. Spk Due	lian	Control Limite	Control Limite	E) Do

)											
BTEX by EPA 8021B	Btank Sample Result IAI	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dublicate	Blk. Spk Dup. %R	(LAN) %	Control Limits %R	Control Limits %RPD	Flag
Analytes	-	[ <b>B</b> ]	[c]	[0]	[E]	Result [F]	[ <u>G</u> ]				
Benzene	<0.00100	0.100	0.101	101	0.100	0.100	100	-	70-130	35	
Toluene	<0.00200	0.100	0.0975	86	0.100	0.0981	98	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0974	<i>L</i> 6	0.100	0.0988	66	1	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.196	98	0.200	0.199	100	2	70-135	35	<u> </u>
o-Xylene	<0.00100	0.100	0.102	102	0,100	0.103	103	-	71-133	35	

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[F] All results are based on MDL and Validated for QC Purposes

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rder f								Proj	ect ID:	Project ID: 701583.144.01	.01	
Analyst: JUM		Da	ite Prepar	Date Prepared: 01/31/2015	5			Date A	nalyzed: (	Date Analyzed: 01/31/2015		
Lab Batch ID: 960882	Sample: 667820-1-BKS	KS	Batch #:	#: 1					Matrix: Water	Vater	ļ	
Units: mg/L			BLAN	K /BLANK S	SPIKE / F	S YNY S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE	1	RECOVI	RECOVERY STUDY	Y	
Inorganic Anions by EPA 300/300.1	by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]		[a]	[E]	Result [F]	<u>0</u>				
Chloride		<1.00	25.0	22.4	60	25.0	23.9	96	9	011-06	20	
Analyst: BHRE		Da	ite Prepare	Date Prepared: 02/07/2015	S.			Date A	nalyzed: (	Date Analyzed: 02/08/2015		
Lab Batch ID: 961352	Sample: 688218-1-BKS	KS	Batch #:	#: 1					Matrix: Solid	olid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / E	S NNK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVI	RECOVERY STUDY	Y	
Inorganic Anions by EPA 300/300.1	by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			<b>B</b>	0	[0]	[E]	Result [F]	<u>0</u>				
Chloride		<2.00	20.0	20.1	101	20.0	20.3	102	-	011-06	20	
Analyst: DAT		Da	ite Prepare	Date Prepared: 02/04/2015	2			Date A	nalyzed: (	Date Analyzed: 02/04/2015		
Lab Batch ID: 961042	Sample: 667974-1-BKS	KS	Batch #:	i#: 1					Matrix: Water	Vater		
Units: mg/L			BLAN	K /BLANK (	SPIKE / I	<b>SLANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVI	RECOVERY STUDY	Y	
Mercury by EPA 7470A	EPA 7470A	Blank Sample Result IAI	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duolicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[	[B]	ICI	a	[E]	Result [F]	<u>ច</u>				_
Mercury		<0.000100	0.00500	0.00497	66	0.00500	0.00495	66	0	85-115	20	

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final 1.001





# Project Name: Cal AB Launcher

Cor	Control Cor		Blk. Snk	Rlank	Snike	Blank	Rlank   Snike   Rlank   Snike   Rlank   Rlk Snk	Snike	Blank	A LTAT W	Marcury by SW 7471 A	
λαη	VERY STI	RECO	LICATE	SPIKE DUPI	BLANK	SPIKE / J	BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	BLAP			mg/kg	Units:
	Matrix: Solid	Matrix					Batch #: 1	Bate	KS	Sample: 667976-1-BKS	Lab Batch ID: 961045	Lab Bate
~	Date Analyzed: 02/04/2015	Analyzed	Date /			15	Date Prepared: 02/04/2015	ate Prepa	J		<b>DAT</b>	Analyst:
44.01	Project ID: 701583.144.01	oject ID:	Pre								Work Order #: 501565	Work O

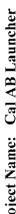
Mercury by SW 7471A	V 7471A	Blank Sample Result [A]	Spike Addeđ	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	5	ē	[ <u>F</u> ]	Result [F]	[6]				
Mercury		<0.00333	0.167	0.162	97	0.167	0.162	67	0	85-115	20	
Analyst: DAT		Da	te Prepare	Date Prepared: 02/03/2015	5			Date Ai	Date Analyzed: 02/03/2015	02/03/2015		
Lab Batch ID: 960903	Sample: 667901-1-BKS	JKS	Batch #:	(#: 1					Matrix: Water	Vater		
Units: mg/L			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / I	<b>3LANK S</b>	PIKE DUPL	<b>ICATE</b>	RECOVI	ERY STUE	λ	
Metals per ICP by SW846 6010B	W846 6010B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	BIK. Spk Dup.	RPD	Control Control Limits Limits	Control Limits	Flag

1											
Metals per ICP by SW846 6010B	Blank Sample Result IAI	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Centrol Limits %R	Control Limits %RPD	Flag
Analytes	-	[B]	lCl	ā	[E]	Result [F]	[6]				
Arsenic	<0.0100	1.00	1.07	107	1.00	1.07	107	0	85-115	20	
Barium	<0.0100	1.00	1.07	107	00'1	1.08	801	-	85-115	20	
Cadmium	<0.00500	00'1	1.07	107	1.00	1.08	108	-	85-115	20	
Chromium	<0.00500	00'1	1.04	104	1.00	1.04	104	0	85-115	20	
Lead	<0.0120	1.00	1.06	106	1.00	1.07	107	-	85-115	20	
Selenium	<0.0100	1.00	1.07	107	1.00	1.07	107	0	85-115	20	
Silver	<0.00400	1.00	1.02	102	1.00	1.03	103	1	85-115	20	

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

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Project ID: 701583.144.01 Date Analyzed: 02/03/2015

Matrix: Solid

Project Name: Cal AB Launcher

Date Prepared: 02/03/2015 Batch #: 1 Sample: 667904-1-BKS Work Order #: 501565 Lab Batch ID: 960914 DAT Analyst:

Units:	mg/kg		BLAN	K /BLANK S	SPIKE / I	STANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	JCATE	RECOVI	ERY STUI	λ	
Met	Metals per ICP by SW846 6010B	Blank Sample Result Al	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	gal.
Analytes	lytes		[B]	[c]	lal	Ε	Result [F]	<u>5</u>				
Arsenic		<0.500	100	107	107	100	108	108	-	85-115	20	
Barium		<0.500	001	106	106	100	106	106	0	85-115	20	
Cadmium	E	<0.250	001	106	901	100	106	106	0	85-115	20	
Chromium	E	<0.250	100	104	104	100	104	104	0	85-115	20	
Lead		<0.600	100	104	104	100	105	105	-	85-115	20	
Selenium		<0.500	100	107	107	100	107	107	0	85-115	20	
Silver		<0.200	100	102	102	100	101	101	1	85-115	20	
Analyst:	ARM	Ds	ate Prepar	Date Prepared: 01/30/2015	5			Date A	nalyzed: (	Date Analyzed: 01/30/2015		
Lab Batch ID: 960788	D: 960788 Sample: 667869-1-BKS	KS	Batch #:	.#: 1					Matrix: Water	Water		
Units:	mg/l,		BLAN	K /BLANK (	SPIKE / I	STANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE		RECOVI	RECOVERY STUDY	λ	
	TPH By SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	lytes		[B]		10	[3]	Duplicate Result [F]	¥ [5]	<b>0</b> %	N %	%KrU	
C6-C12	C6-C12 Gasoline Range Hydrocarbons	<1.50	100	80.5	81	100	85.7	86	9	70-135	25	

Relative Percent Difference RPD = 200\*(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Version: 1.%

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100

<1.50

C12-C28 Diesel Range Hydrocarbons







Work Order #: 501565	#: 501565								Project 1D: 701583.144.01	701583.144	10
Analyst:	ARM		Da	ite Prepare	Date Prepared: 02/02/2015				Date Analyzed: 02/02/2015	02/02/2015	
Lab Batch ID: 960901	106096	Sample: 667906-1-BKS	S	Batch #:	#: 1				Matrix: Solid	Solid	
Units:	mp/kg	L		BLANH	(/BLANK SI	PIKE/BI	ANK SP	ITANO AN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	VERY STUI	X
	TPH By SW8015 Mod		Blank Spike	Spike	Blank Spike Blank Blank Spike Blank	Blank	Spike		Blk. Spk Control Control	Control Control	Contro

TPH Bv SW8015 Mod	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	[A]		Result	%К		Duplicate	%В	%	%К	%RPD	
Analytes		[B]	[C]		[E]	Result [F]	Ū				
C6-C12 Gasoline Range Hydrocarbons	<15.0	0001	906	16	0001	932	93	m	70-135	35	
C12-C28 Diesel Range 11ydrocarbons	<15.0	1000	1030	103	1000	1070	107	4	70-135	35	

Relative Percort Difference RPD = 200\*((C-F)/(C+F)) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Version: 1.%

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XENCO Laboratorics Project	Form 3 - MS Recov et Name: Cal AB Launcher			C	
Work Order #: 501565 Lab Batch #: 960882		Proj	ect ID: <sup>7</sup>	701583.144.0	1
Date Analyzed: 01/31/2015 OC- Sample ID: 501462-001 S	Date Prepared: 01/31/2015 Batch #: 1		analyst: J Matrix: \		
Reporting Units: mg/L	MATRIX / MA				DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Spike Result Added [A] [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	134000 50000	186000	104	80-120	

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BRL - Below Reporting Limit

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# Form 3 - MS / MSD Recoveries

# Project Name: Cal AB Launcher



501565	960786	01/30/2015	ng/L
Work Order # :	Lab Batch ID:	Date Analyzed:	Reporting Units:

Analyst: ARM Batch #: QC- Sample ID: 501447-001 S

Matrix: Water \_

Project ID: 701583.144.01

Date Prepared: 01/30/2015

		1										
Reporting Units:	mg/L		M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	ITAM \ 3	ALX SPIK	(E DUPLICA)	ie recc	<b>VERV S</b>	YOUT		
8	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added  B		%R [D]	Added [E]	Result [F]	% <b>R</b> [G]	%	%R	%RPD	
Benzene		<0.00100	0.100	0.101	101	0.100	0.103	103	7	70-125	25	
Toluene		<0.00200	0.100	0.0971	97	0.100	0.0990	66	2	70-125	25	
Ethylbenzene		<0.00100	0.100	0.0961	96	0.100	0.0983	98	5	71-129	25	
m,p-Xylenes		<0.00200	0.200	0.194	76	0.200	0.198	66	2	70-131	25	
o-Xylene		<0.00100	0.100	0.0991	66	0.100	0.101	101	2	71-133	25	
Lab Batch ID:	960905 C	QC- Sample ID:	501565-006 S	006 S	Ba	Batch #:	I Matrix: Soil	:: Soil				
Date Analyzed:	02/03/2015	Date Prepared: 02/02/2015	02/02/2(	015	Чu	Analyst: ARM	RM					
Reporting Units:	mg/kg		Μ	MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY STUDY	UWAT)	ALX SPIF	(E DUPLICA)	TE RECC	<b>DVERY S</b>	srupy		
B	BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	e P	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[V]	<b>B</b>		la	E		[0]				
Benzene		<0.00100	0.100	0.0899	60	0.0998	0.0923	92	ŝ	70-130	35	
Toluene		<0.00200	0.100	0.0849	85	0.0998	0 0874	88	3	70-130	35	
Ethylbenzene		<0.00100	0.100	0.0785	79	0.0998	0.0825	83	5	71-129	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

35

70-135 71-133

4 4

82 82

0,163

0.200 0.0998

26 28

0.156 0.0781

<0.00200 <0.00100

m.p-Xylencs

o-Xylene

0.100 0.200

0.0816

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ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested. I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.001

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# Form 3 - MS / MSD Recoveries

# Project Name: Cal AB Launcher



Work Order # :	501565						Project ID: 701583.144.01	: 701583	.144.01			
Lab Batch ID:	961346	QC- Sample ID: 501565-005 S	501565	-005 S	Ba	Batch #:	1 Matrix:	c: Soil				
Date Analyzed:	02/08/2015	Date Prepared:	02/07/2015	015	Λn	Analyst: B	BHRE					
Reporting Units:	mg/kg		M	ATRIX SPIKI	E / MATI	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	<b>DVERV</b> (	STUDY		
Inorga	Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup. 2. D	RPD */	Control Limits	Control Limits % DPD	Flag
	Analytes	[A]	B]	<u>.</u>		E]		<b>1</b>	•	No/		
Chloride		474	444	932	103	444	932	103	0	80-120	20	
Lab Batch ID:	961352	QC- Sample ID:	501530-001	-001 S	Bai	Batch #:	1 Matrix:	c: Soil				
Date Analyzed:	02/08/2015	Date Prepared: 02/07/2015	02/07/20	015	An.	Analyst: BHRE	HRE					
Reporting Units:	mg/kg		M	ATRIX SPIKI	E / MATI	HAS XIS	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	<b>JVERY</b> (	STUDY		
Inorga	Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	ທິທີ	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	<u>0</u>	8% [U]	Added [E]	Result [F]	5. 19 10 10 10 10 10 10 10 10 10 10 10 10 10	%	%R	%RPD	
Chloride		128	117	251	105	117	253	107	-	80-120	20	
Lab Batch ID:	961352	QC- Sample ID:	501565-014 S	-014 S	Ba	Batch #:	I Matrix: Soil	a Soil				
Date Analyzed:	02/08/2015	Date Prepared:	02/07/2015	015	Λn	Analyst: B	BHRE					
Reporting Units:	mg/kg		W	ATRIX SPIKI	E/MATI	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	<b>DVERY</b> (	STUDY		
Inorga	Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	N N	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Kesult [A]	Added [B]	<u>5</u>	¥%	Added [E]	Result [F]	<u>ی</u> لا	%	%K	(1/1)%	
Chloride		371	355	734	102	355	735	103	0	80-120	20	

Matrix Spike Percent Recovery [D] = 100\*(C-AJB Relative Percent Difference RPD = 200\*(C-FJ(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)E

ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested. I = Interference, NA = Not Applicable N = Sec Narrative. EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked. Final 1.001

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Ξ	Ď
M	G

# Form 3 - MS / MSD Recoveries

# Project Name: Cal AB Launcher



Work Order # :	501565						Project ID:		701583.144.01			
Lab Batch ID:	961042	QC-Sample ID:	501409-001 S	-001 S	Ba	Batch #:	l Matrix:	x: Water				
Date Analyzed:	02/04/2015	Date Prepared:	02/04/2015	015	Ā	Analyst: D	DAT					
Reporting Units:	mg/L		N	ATRIX SPIK	E / MAT	IAS XIX.	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	OVERY:	STUDY		
	Mercury by EPA 7470A	Parent Sample	Spike	Spiked Sample Result	<i>Spiked</i> Sample	İ——	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	<i>Control</i> Limits	- Flag
	Analytes	Result [A]	Added [B]	<u>[</u>	8% [D]	Added [E]	Result [F]	%R [G]	%	ЖК	%RPD	
Mercury		<0.000100	0.00500	0.00414	83	0.00500	0.00421	84	2	75-125	20	
Lab Batch ID:	961045	QC- Sample ID:	501462-005	-005 S	Ba	Batch #:	1 Matrix:	x: Soil				
Date Analyzed:	02/04/2015	Date Prepared:	02/04/2015	015	Αn	Analyst: D	DAT					
Reporting Units:	mg/kg		Σ	ATRIX SPIKI	E / MAT	IIAS XIX.	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	<b>OVERY</b>	STUDY		
	Mercury by SW 7471A	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Kesult [A]	Added [B]	<u>0</u>	%R IUI	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Mercury		0.208	0.304	0.446	78	0.303	0.431	74	m	75-125	20	×
Lab Batch ID:	960903	QC-Sample ID:	501409-001	-001 S	Ba	Batch #:	I Matrix:	x: Water				
Date Analyzed:	02/03/2015	Date Prepared:	02/03/2015	015	Ā	Analyst: E	DAT					
Reporting Units:	mg/L		M	ATRIX SPIKI	E / MAT	RIX SPL	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	OVERY:	YUDY		
Meta	Metals per ICP by SW846 6010B	Parent Sample	Snike	Spiked Sample Result	Spiked Samule	Spike	Duplicate Sniked Samnle	Spiked Dun.	RPD	Control Limits	Control Limits	P139
	Analytes	Result [A]	Added [B]	[C]	я% [0]		Result [F]	% <b>R</b> [G]	%	%К	%RPD	C
Arsenic		<0.0100	1.00	1.04	104	1.00	1.04	104	0	75-125	20	
Barium		0.0927	1.00	1.05	96	1.00	1.04	95	-	75-125	20	
Cadmium		<0.00500	1.00	0.925	93	1.00	0.921	92	0	75-125	20	
Chromium		<0.00500	1.00	0.969	76	1.00	0.973	76	0	75-125	20	
Lead		<0.0120	1.00	806.0	16	00'1	906.0	16	0	75-125	20	
Selenium		<0.0100	1.00	1.08	108	1.00	1.08	108	0	75-125	20	
Silver		<0.00400	1.00	0.986	66	1.00	0.985	66	0	75-125	20	

Matrix Spike Percent Recovery [D] = 100\*(C-A)B Relative Percent Difference RPD = 200\*((C-F)(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)E

ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = listimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked. Final 1.001

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# Form 3 - MS / MSD Recoveries





Work Order # :	501565
Lab Batch ID:	960914
Date Analyzed:	02/03/2015
Reporting Units:	mg/kg
Metal	Metals per ICP by SW846 6010B

Project ID: 701583.144.01 -Batch #: QC-Sample ID: 501625-001 S

Matrix: Solid

Date Prepared: 02/03/2015

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analyst: DAT

			WINDLY STILL WATER STILL TO THE POLITICALE RECOVERED TO DE			AE DUTING		1 TIT C			
Metals per ICP by SW846 6010B	Parent Sample	Spike	Spiked Sample Result	$ \infty \infty $	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added  B	<u>[</u> ]	8% [U]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Arsenic	4.26	114	112	95	112	109	94	3	75-125	20	
Barium	67.3	i 14	186	104	112	182	102	2	75-125	20	
Cadmium	0.369	114	91.9	80	112	8.68	80	5	75-125	20	
Chromium	8.25	114	101	81	112	0.66	81	2	75-125	20	
Lead	8.08	114	97.3	78	112	95.1	78	5	75-125	20	
Selenium	<0.571	114	103	90	112	101	90	2	75-125	20	
Silver	<0.228	114	95.5	84	112	94.8	85	1	75-125	20	
Lab Batch ID: 960901	QC-Sample ID: 501574-002 S	501574	-002 S	Ba	Batch #:	l Matrix	Matrix: Soil				
Date Analyzed: 02/02/2015	Date Prepared: 02/02/2015	02/02/2	015	An	Analyst: ARM	RM					
Reporting Units: mg/kg		Z	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MATI	RIX SPH	KE DUPLICA	TE RECO	OVERY (	STUDY		
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	<u>-</u>	¥%	Added [E]	Kesult [F]	[0]	\$	X%	%KPD	
C6-C12 Gasoline Range Hydrocarbons	<16.0	1070	1050	98	1070	912	85	14	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

35

70-135

30

81

906

1070

111

1230

1070

41.5

C12-C28 Diesel Range Hydrocarbons

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative. EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Sample Duplicate Recovery



### Project Name: Cal AB Launcher

Work Order #: 501565

Lab Batch #: 960867				Project I	( <b>D:</b> 701583.)	44.01
Date Analyzed: 02/02/2015 17:15	Date Prepare	ed: 02/02/2015	5 Ana	lyst: WRU	ſ	
QC- Sample ID: 501565-001 D	Batch	#: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE	/ SAMPLE	DUPLIC	CATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Percent Moisture		24.9	28.8	15	20	
Lab Batch #: 960867				-		
Date Analyzed: 02/02/2015 17:15	Date Prepare	ed: 02/02/2015	Ana	lyst: WRU		
QC- Sample ID: 501608-001 D	Batch	<b>#:</b> 1	Mat	rix: Soil		
Reporting Units: %	[	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		10.9	11.2	3	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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CHAIN OF CUSTODY

A Trans (210,600,024)     monomental fill fill fill fill fill fill fill fi	Stafford,Texas (281-240-4200)		Odessa, Texas (432-563-1800)		Lakeland, Florida (883-646-8526)
Colore         San Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Annual         Ann	Dallas, Texas (214-902-0300)		Norcross, Georgia (770-449-8800)		(813-620-2000)
Contraction         Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	:e Center - San Antonio, Texas (210-509-3334)		Xenco Quote #	Xenco Job #	601962
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If the full of					GW =Ground Water DW = Drinking Water P = Product
The main multical definition     The full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is frame in the full is f	itchcoure talonipe.		1		SW = Surface water SL = Studge WW = Waste Water
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1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1 <td>Field ID / Point of Collection</td> <td>Collection 32%-Averal Collection 32%-Averal Attrix 0 01</td> <td></td> <td></td> <td>Field Comments</td>	Field ID / Point of Collection	Collection 32%-Averal Collection 32%-Averal Attrix 0 01			Field Comments
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wy EMERGENCY     Contract TaT     Lavel 3 (CLP Forms)     UST / RG - 1:1       wy EMERGENCY     Contract TaT     Lavel 3 (CLP Forms)     UST / RG - 1:1       wy EMERGENCY     Same Legency     Lavel 3 (CLP Forms)     UST / RG - 1:1       wy EMERGENCY     Same Legency     Lavel 3 (CLP Forms)     UST / RG - 1:1       Received by Lab, If received by 3:00 pm     Received by Lab, If received by 3:00 pm     Received by Lab, If received by 1:00 pm       Received by Lab, If received by Lab, If received by 3:00 pm     Received by Lab, If received by Lab, If received by 2:00 pm     Received by Lab, If received by Lab, If received by 2:00 pm       Received by Lab, If received by Lab, If received by 2:00 pm     Received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab, If received by Lab,			TRAP Level IV		
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CHAIN OF CUSTODY

Odessa, Texas (432-563-1800) Lekelend, Florida (883-846-8526)	Norcross, Georgia (770-449-8800) Tsmps, Florida (813-620-2000)	Kanco Guera e Kanco Job s BU 565	Analytical Information with the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		A= Alr S = SolVsedSolid	GW =Ground Water DM = Drinking Water	P = Product SW = Studaes water	V2				Elad Comments	XXXXX	XXXXX	XXXXX	XXXXX									FED-EX / UPS: Tracking #	COURTER DELIVERY ALTER AND A SAVE AND AND A SAVE AND AND A SAVE AND AND AND AND AND AND AND AND AND AND	Datafrime: Received By:
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Setting the Standard Since 1990 Stattord,Taxas (281-240-4200)	Dallas, Texas (214-902-0300)	Service Center - San Antonio, Texas (210-509-3334)		Client / Reporting Information	Company Name Traffon ICPE	Company Address:	LULI TIWU 244 MIAIMA	SULATACAL DATA TANDO	Project Contact: Null 1 Sch DCLOC	Samplers's Name: WULASSA		No. Fleid ID / Point of Collection	WIND 0-1-51	2 5-3-0' DIAN	10-11-5	5-5-0	• SumP	9	 6	10 Turneround Time (Buriness dava)	Same Day TAT			3 Day EMERGENCY	TAT Starts Day received by Lab, if received by 3:00 pm	ED articles attending and a same	Relinguished by:

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## **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon/LPE Co.	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 01/30/2015 03:12:00 PM	Air and Metal samples Acceptable Range: Ambient						
Work Order #: 501565	Temperature Measuring device used :						
Sample Rece	ipt Checklist Comments						
#1 *Temperature of cooler(s)?							
#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 Sample instructions complete on Chain of Custody?	Yes						
#9 Any missing/extra samples?	Νο						
#10 Chain of Custody signed when relinquished/ received?	Yes						
#11 Chain of Custody agrees with sample label(s)?	Yes						
#12 Container label(s) legible and intact?	Yes						
#13 Sample matrix/ properties agree with Chain of Custody?	Yes						
#14 Samples in proper container/ bottle?	Yes						
#15 Samples properly preserved?	Yes						
#16 Sample container(s) intact?	Yes						
#17 Sufficient sample amount for indicated test(s)?	Yes						
#18 All samples received within hold time?	Yes						
#19 Subcontract of sample(s)?	Yes						
#20 VOC samples have zero headspace (less than 1/4 inch	bubble)? Yes						
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? samples for the analysis of HEM or HEM-SGT which are veril analysts.							
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnA	Ac+NaOH? N/A						

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mrwy Woah Kelsey Brooks Checklist reviewed by: Mrwy Woah Kelsey Brooks

Date: 01/30/2015

Date: 01/30/2015

## Analytical Report 502904

for

**Talon LPE** 

**Project Manager: Sheldon Hitckcock** 

Cal AB Launcher

701583.144.01

### 26-FEB-15

Collected By: Client





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)

.





26-FEB-15 Project Manager: Sheldon Hitckcock Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 502904 Cal AB Launcher Project Address: A-8-265-29E

### Sheldon Hitckcock:

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) 502904. 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. 502904 will be filed for 60 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.

Kelsey Brooks Project Manager

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.

## Sample Cross Reference 502904



## Talon LPE, Artesia, NM

Cal AB Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-6 0'	S	02-23-15 10:07	- 0 ft	502904-001
S-7 0'	S	02-23-15 10:09	- 0 ft	502904-002
BG-2 0'	S	02-23-15 10:20	-0 ft	502904-003
BG-3 0'	S	02-23-15 10:34	- 0 ft	502904-004
BG-4 0'	S	02-23-15 10:42	- 0 ft	502904-005





Client Name: Talon LPE Project Name: Cal AB Launcher

 Project ID:
 701583.144.01

 Work Order Number(s):
 502904

Report Date: 26-FEB-15 Date Received: 02/24/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

.



## Certificate of Analysis Summary 502904 Talon LPE, Artesia, NM



1 a1011 LFE, Artesia, NM Project Name: Cal AB Launcher

> Project Id: 701583.144.01 Contact: Sheldon Hitckcock

Date Received in Lab: Tue Fcb-24-15 12:56 pm Report Date: 26-FEB-15

Project Logation: A-8-265-29E					Report Date: 26-FEB-15	0-FEB-15	
					Project Manager: Kelsey Brooks	celsey Brooks	
	Lab Id:	502904-001	502904-002	502904-003	502904-004	502904-005	
Landar Daring	Field Id:	S-6 0'	S-70'	BG-2 0'	BG-3 0'	BG-4 0'	
Analysis Kequesiea	Depth:	0 ft	0 #	0 ft	0 U	0 ft	
	Matrix:	SOIL,	SOIL	SOIL,	SOIL	SOIL	
	Sampled:	Feb-23-15 10:07	Feb-23-15 10:09	Feb-23-15 10:20	Feb-23-15 10:34	Feb-23-15 10:42	
BTEX by EPA 8021B	Extracted:	Feb-24-15 15:00	Feb-24-15 15:00				
	Analyzed:	Feb-25-15 02:23	Feb-25-15 02:39				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		ND 0.000996	ND 0.000994				
Toluene		0000 ON	0.00199 UD				
Ethvlbenzene		ND 0.000996	ND 0.000994				
m,p-Xylenes		0.00199 ND	ND 0.00199				
o-Xylenc		ND 0.000996	ND 0.000994				
Total Xylenes		ND 0.000996	ND 0.00094				
Total BTEX		ND 0.000996	ND 0.000994				
Inorganic Anions by EPA 300/300.1	Extracted:	Feb-25-15 17:00	Feb-25-15 17:00	Feb-25-15 17:00	Feb-25-15 17:00	Feb-25-15 17:00	
	Analyzed:	Feb-26-15 08:52	Feb-26-15 13:04	Feb-26-15 13:50	Feb-26-15 14:12	Feb-26-15 14:37	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	ıng/kg RL	
Chloride		1720 223	4670 471	345 113	141 114	209 24.8	
Mercury by SW 7471A	Extracted:			Feb-26-15 09:00	Feb-26-15 09:00	Feb-26-15 09:00	
SUB: T104704295-TX	Analyzed:			Feb-26-15 11:02	Feb-26-15 11:09	Feb-26-15 11:11	
	Units/RL:			mg/kg RL	mg/kg Rl.		
Mercury				ND 0.00300	0.00583 0.00329	0.00592 0.00375	

This analytical report, and the entite data package it represents, has been made for your exclusive and confidential use. The interpretations and ensuits expressed throughout hits analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no repressed throughout hits 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.

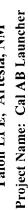
Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Runs Moah Kelsey Brooks Project Manager



Project Id: 701583.144.01 Contact: Sheldon Hitekcock

## Certificate of Analysis Summary 502904 Talon LPE, Artesia, NM





Date Received in Lab: Tue Feb-24-15 12:56 pm Report Date: 26-FEB-15

Project Laration: A-8-265-29F					Report Date: 26-FEB-15	6-FEB-15	
					Project Manager: Kelsey Brooks	clsey Brooks	
	Lab Id:	502904-001	502904-002	502904-003	502904-004	502904-005	
A malineire Damaadad	Field Id:	S-6 0'	S-7 0'	BG-2 0'	BG-3 0'	BG-4 0'	
naicanhay ciclimut	Depth:	0 ft	0 Ĥ	0 U	0 ft	0 ft	
	Matrix:	SOIL,	SOIL	SOIL	SOIL	TIOS	
	Sampled:	Feb-23-15 10:07	Feb-23-15 10:09	Feb-23-15 10:20	Feb-23-15 10:34	Feb-23-15 10:42	
Metals per ICP by SW846 6010B	Extracted:			Feb-26-15 07:30	Feb-26-15 07:30	Feb-26-15 07:30	
SUB: T104704295-TX	Analyzed:			Feb-26-15 11:01	Feb-26-15 11:04	Feb-26-15 11:06	
	Units/RL:			mg/kg RL	mg/kg RL	mg/kg RL	
Arsenic				3.78 0.559	2.71 0.560	3 06 0.597	
Barium				71.6 0.559	85.7 0.560	172 0.597	
Cadmium				ND 0.280	0.308 0.280	0.585 0.299	
Chromium	-			2.77 0.280	5.53 0.280	11.9 0.299	
Lead				4.04 0.671	5.37 0.672	8.48 0.716	
Selenium				ND 0.559	ND 0.560	ND 0.597	
Silver				ND 0.224	ND 0.224	ND 0.239	
Percent Moisture	Extracted:						
	Analyzed:	Feb-24-15 17:30	Feb-24-15 17:30	Feb-24-15 17:30	Feb-24-15 17:30	Feb-24-15 17:30	
	Units/RL:	% RL	% RL	% KT	% RL	% RL	
Percent Moisture		10.2 1.00	15.0 1.00	11.5 1.00	12.4 1.00	19.5 1.00	
TPH By SW8015 Mod	Extracted:	Feb-25-15 15:00	Feb-25-15 15:00				
	Analyzed:	Feb-25-15 19:06	Feb-25-15 20:14				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.0	ND 14.9				
C12-C28 Diesel Range Hydrocarbons		80.1 15.0	55.3 14.9				
C28-C35 Oil Range Hydrocarbons		ND 15.0	ND 14.9				
Total TPH		80.1 15.0	55.3 14.9				

This analytical report, and the enture 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 invoited for this work order unless otherwise agreed to in writing.

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Rund Moah Kelsey Brooks Project Manager



## **Flagging Criteria**



- 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
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 (813) 620-2003

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 (432) 563-1713

 (770) 449-8800
 (770) 449-5477

 (602) 437-0330
 (770) 449-5477



## Project Name: Cal AB Launcher

,

Work Orders : 50 Lab Batch #: 962598	2904. Sample: 502904-001 / SMP	Batch:	-	701583.144 Soil	.01	
Units: mg/kg	Date Analyzed: 02/25/15 02:23	SUR	ROGATE R	ECOVERY S	STUDY	
BJ	EX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0313	0.0300	104	80-120	<u> </u>
4-Bromofluorobenzene		0.0334	0.0300	111	80-120	
Lab Batch #: 962598	Sample: 502904-002 / SMP	Batch:	1 Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 02/25/15 02:39	SUR	ROGATE R	ECOVERY S	STUDY	
BJ	TEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0323	0.0200	108	80-120	
4-Bromofluorobenzene			0.0300		!	
Lab Batch #: 962630	5	0.0344	0.0300	115	80-120	
-	Sample: 502904-001 / SMP	Batch:				
Units: mg/kg	Date Analyzed: 02/25/15 19:06	SUR	ROGATE R	ECOVERYS	STUDY	
Тр	H By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
·	Analytes					
1-Chlorooctane		107	99.7	107	70-135	
o-Terphenyl		54.5	49.9	109	70-135	
Lab Batch #: 962630	Sample: 502904-002 / SMP	Batch:	1 Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 02/25/15 20:14	SUR	ROGATE R	ECOVERY S	STUDY	
ТР	H By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		91.7	99.6	92	70-135	
o-Terphenyl		46.2	49.8	93	70-135	
Lab Batch #: 962598	Sample: 689008-1-BLK / B	LK Batch:	1 Matrix:	: Solid	·	
Units: mg/kg	Date Analyzed: 02/25/15 04:51	SUR	ROGATE R	ECOVERY	STUDY	
BJ	TEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I.4-Difluorobenzene		0.0307	0.0300	102	80-120	
4-Bromofluorobenzene		0.0307	0.0300		80-120	
		0.0327	0.0300	109	00-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal AB Launcher

Wo <mark>rk Ord</mark> ( Lab Batch #:		004, Sample: 689030-1-BLK / B	LK Batel		; 701583.144 : Solid	.01	
Units:	mg/kg	Date Analyzed: 02/25/15 17:35	SU	RROGATE R	ECOVERY	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			103	100	103	70-135	
o-Terphenyl			54.1	50.0	108	70-135	•
Lab Batch #:	962598	Sample: 689008-1-BKS / B	KS Batel	h: 1 Matrix:	Solid		
Units:	mg/kg	Date Analyzed: 02/25/15 01:01	SU	RROGATE R	ECOVERY	STUDY	
	BTI	EX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	nzene		0.0303	0.0300	101	80-120	-
4-Bromofluoro			0.0307	0.0300	101	80-120	
Lab Batch #:		Sample: 689030-1-BKS / B			<u> </u>	00 120	
Units:	mg/kg	Date Analyzed: 02/25/15 17:58		RROGATE R		STUDY	. <u>.</u>
	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes		Í	[ [D]	1 1	
1-Chlorooctane	<u> </u>		115	100	115	70-135	
o-Terphenyl			51.5	50.0	103	70-135	
Lab Batch #:	962598	Sample: 689008-1-BSD / B	SD Batch	h: 1 Matrix:	: Solid		
Units:	mg/kg	Date Analyzed: 02/25/15 01:17	SU	RROGATE R	ECOVERY S	STUDY	
	BT	EX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobe	nzene		0.0309	0.0300	103	80-120	
4-Bromofluoro	benzene		0.0301	0.0300	100	80-120	
Lab Batch #:	962630	Sample: 689030-1-BSD / B	SD Batcl	h: 1 Matrix:	Solid	I	
Units:	mg/kg	Date Analyzed: 02/25/15 18:21	SU	RROGATE R	ECOVERYS	STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane			127	100	127	70-135	
o-Terphenyl	. <u> </u>		56.6	50.0	113	70-135	
0-Terphenyl			0.00	50.0	113	10-133	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



## Project Name: Cal AB Launcher

	rders: 50290 #: 962598	14, Sample: 502904-002 S / MS	Bate		: 701583.144 : Soil	.01	
Units:	mg/kg	Date Analyzed: 02/25/15 01:33	SL	JRROGATE R	ECOVERY S	STUDY	
, <u> </u>	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0321	0.0300	107	80-120	
4-Bromoflu	orobenzene		0.0330	0.0300	110	80-120	
ab Batch	#: 962630	Sample: 502904-001 S / MS	Batc	h: I Matrix	: Soil		
<b>Inits:</b>	mg/kg	Date Analyzed: 02/25/15 19:30	SL	JRROGATE R	ECOVERY	STUDY	
	Трн	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	Analytes	116	99.7	116	70-135	
o-Terpheny			49.5	49.9	99	70-135	
	#: 962598	Sample: 502904-002 SD / M				70-135	
Units:	mg/kg	Date Analyzed: 02/25/15 01:50		JRROGATE R			
						<u> </u>	
	BTEX	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluor	obenzene	Analytes	0.0320	0.0300	107	80-120	
-,	iorobenzene		0.0332	0.0300	107	80-120	
	#: 962630	Sample: 502904-001 SD / M				50-120	_
Jnits:	mg/kg	Date Analyzed: 02/25/15 19:51		RROGATE R		STUDY	
	TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		112	99.9	112	70-135	
o-Terpheny	<u>,                                    </u>		50.8	50.0	102	70-135	

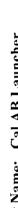
\* Surrogate outside of Laboratory QC limits

- \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
- \*\*\* Poor recoveries due to dilution

,

Surrogate Recovery [D] = 100 \* A / B

9	ories
<b>N</b> EN	aborat





Project 1D: 701583.144.01

Date Analyzed: 02/25/2015

Matrix: Solid

Project Name: Cal AB Launcher

**BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Prepared: 02/24/2015 Batch #: 1 Sample: 689008-1-BKS Work Order #: 502904 Lab Batch ID: 962598 mg/kg ARM Analyst: Units:

BTEX by EPA 8021B	Blank Sample Result  A	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		B			131	Result [F]	[0]				
Benzene	<0.00100	0.100	0.101	101	0.100	0.102	102		70-130	35	
Toluene	<0.00200	0.100	0.0977	001	0.100	0.101	101	1	70-130	35	
Ethylbenzene	<00100.0>	0.100	0.104	104	0.100	0.105	105	-	71-129	35	1
m,p-Xylenes	<0.00200	0.200	0.204	102	0.200	0.206	103	-	70-135	35	
o-Xylenc	<0.00100	0.100	0.103	103	0.100	0.103	103	0	71-133	35	
Analyst: JUM	Da	ite Prepare	Date Prepared: 02/25/2015	5			Date A	nalyzed: (	Date Analyzed: 02/26/2015		2
Lab Batch ID: 962690 Sample: 689021-1-BKS	sks	Batch #: 1	#: 1					Matrix: Solid	solid		
Units: mg/kg		BLAN	K /BLANK S	SPIKE / I	3LANK S	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	<b>JCATE</b>	RECOVI	ERY STUD	Y	
Inorganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk Spk Dup.	RPD	Control Limits %, c	Control Limits	Flag
Analytes		[B]		۱۵]	[3]	Unplicate Result [F]	¥ 0	0%	No/	WKPD	_

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90-110

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98

48.8

50.0 Ξ

105

52.5

50.0 <u>B</u>

<2.00

Analytes Chloride Relative Percent Difference RPD = 200\*{(C-F)/(C+F)} Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*([F)/[E] All results are based on MDI, and Validated for QC Purposes

Final 1.000



### **BS / BSD Recoveries**



# Project Name: Cal AB Launcher

Work Order #: 502904		•						Proj	ect ID: 7	Project ID: 701583.144.01	01
Analyst: DAT		â	ate Prepar	Date Prepared: 02/26/2015	15			Date A	Date Analyzed: 02/26/2015	2/26/2015	
Lab Batch ID: 962673	Sample: 689033-1-BKS	KS	Bate	Batch #: 1					Matrix: Solid	olid	
Units: mg/kg			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	<b>STANK S</b>	PIKE DUPI	LICATE	RECOVE	RY STUD	λ
Mercury by SW 7471A		Blank Spike Sample Result Added	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Control Limits Limits	Control Limits
		[v]		Result	%К	_	Duplicate	%R	%	%К	%RPD

Mercurv hv SW 7471A	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	[V]		Result	%К		Duplicate	%R	%	%R	%RPD	
Analytes		[B]			[E]	Result [F]	<u>छ</u>				
Mercury	<0.00333	0.167	0.165	66	0.167	0.167	100		85-115	20	
Analyst: DAT	a	ate Prepa	Date Prepared: 02/26/2015	15			Date A	nalyzed: (	Date Analyzed: 02/26/2015		
Lab Batch 1D: 962664 Sample: 68	Sample: 689027-1-BKS	Batc	Batch #: 1					Matrix: Solid	solid		
.Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE/1	3LANK	SPIKE DUPI	LICATE	RECOVI	ERY STUI	λ	
Metals per ICP by SW846 6010B	3 Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[V]	[8]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	Я%	%RPD	, <b>, , , , , , ,</b>
Arsenic	<0.500	001	101	101	100	102	102		85-115	20	

<u>5 2 2 5 5 5</u>

85-115

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102

102

8 8

101 101 102

<u>8</u>

<0.500</li>
 <0.250</li>
 <0.250</li>
 <0.250</li>
 <0.500</li>
 <0.200</li>

85-115 85-115

0 0 0

101

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<u>01</u> 00

85-115

102

102

85-115

0

100

9.66

10

9.66

100

001

103

101 102 101

00 100

100

Cadmium Chromium

Barium

Selenium

Lead

Silver

85-115

-

Relative Percent Difference RPD = 200\*[(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Btank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes



## **BS / BSD Recoveries**



# Project Name: Cal AB Launcher

Work Order #: 502904	.#: 502904								Projec	at ID: 7	Project ID: 701583.144.01	01
Analyst:	ARM		ũ	ate Prepar	Date Prepared: 02/25/2015	5			Date Ana	llyzed: 0	Date Analyzed: 02/25/2015	
Lab Batch ID: 962630	: 962630	Sample: 689030-1-BKS	S	Batch	Batch #: 1				M	Matrix: Solid	bild	
Units:	mg/kg			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / BI	LANK SI	PIKE DUPL	ICATE R	ECOVE	RY STUD	X
	TPH By SW8015 Mod		Blank	Blank Spike	Blank Spike Blank Blank Spike Blank Blk. Spk	Blank	Spike	Blank Blank	Blk. Spk Control Control		Control Control	Control

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TPH By SW8015 Mod	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
•	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	[A]		Result	%R		Duplicate	%К	%	%К	%RPD	
Analytes		[8]	[c]	a	[E]	Result [F]	[ <u>C</u> ]				
C6-C12 Gasoline Range Hydrocarbons	<15.0	1000	843	84	1000	886	89	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<15.0	1000	1030	103	1000	1200	120	15	70-135	35	
		2									

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Relative Percent Difference RPD = 2004[(C-F)/(C+F)] Blank Spike Recovery [D] = 1004(C)/[B] Blank Spike Duplicate Recovery [G] = 1004(F)/[E] All results are based on MDL and Validated for QC Purposes

XENCO Laboratorics Projec	Form 3 - MS et Name: Cal AB La				C				
Work Order #: 502904 Lab Batch #: 962690			Proj	ect ID: <sup>7</sup>	01583.144.0	1			
Date Analyzed: 02/26/2015	Date Prepared: 02/2	5/2015	A	Analyst: J	UM				
QC- Sample ID: 502781-001 S	Batch #: 1 Matrix: Soil								
Reporting Units: mg/kg	MATI	RIX / MA	ATRIX SPIKE	RECO	VERY STU	DY			
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[, 1]								
Chloride -	359	540	937	107	80-120	1			

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference  $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

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# Form 3 - MS / MSD Recoveries





Flag

Control Limits %RPD

Control Limits %R

RPD %

Spiked Dup. %R

Duplicate Spiked Sample Result |F|

Spike Added

Spiked Sample Я% [U]

E

0 96 32 2 32 16

IKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analyst: ARM

Project ID: 701583.144.01

Matrix: Soil

-

Batch #:

35 35 35 35 35

70-130 70-130 71-129 70-135 71-133

3 4 ŝ ŝ 2

0.0961 0.0918

0.0998

98

Matrix: Soil

-

Batch #:

Analyst: DAT

0.0913

0.0998

93

0.183

0.200

94

0.0935

0.0998 0.0998

95 5

mg/kg	Reporting Units:
02/26/2015	Date Analyzed:
962673	Lab Batch ID:
	o-Xylene
	m.p-Xylenes
	Ethylbenzene
	T'oluene
	Benzene
Analytes	
BTEX by EPA 8021B	
mg/kg	Reporting Units:
02/25/2015	Date Analyzed:
962598	Lab Batch ID:
202904	Work Order # :
	502904 962598 02/25/2015 mg/kg <b>BTEX by EPA 8021B</b> <b>Analytes</b> 962673 02/26/2015 mg/kg

Flag Control Limits %RPD 20 Control Limits %R 75-125 IKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY RPD % Ч Spiked Dup. %R |G| 85 Duplicate Spiked Sample Result [F] 0.125 Spike Added 0.143 nple Spiked Sample %R [D] 83 Result [C] 0.123 Spike Added |B| 0.144 Sample Result 0.00294 Z Analytes 2 Mercury

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD =  $200^{\circ}((C-F)/(C+F))$ 

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

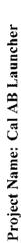
ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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# Form 3 - MS / MSD Recoveries





502904	962664	02/26/2015	mg/kg
Work Order # :	Lab Batch ID:	Date Analyzed:	Reporting Units:

Batch #: QC- Sample ID: 502905-002 S

Project ID: 701583.144.01 Matrix: Soil -

Date Prepared: 02/26/2015

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Analyst: DAT

		•	TO 16 INCLOODE ETVOLTION AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND IS VINTED AND I								
Metals per ICP by SW846 6010B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	QAN	Control Limits	Control Limits	Flag
	Result	Added	[C]	% K	Added	Result [F]	%R	%	%R	%RPD	)
Analytes	V	<u>a</u>		5	IJ.		2				
Arsenic	3.81	124	120	94	122	116	92	'n	75-125	20	
Barium	117	124	253	011	122	249	108	2	75-125	20	
Cadmium	0.436	124	105	84	122	102	83	'n	75-125	20	
Chromium	9.34	124	126	94	122	122	92	n	75-125	20	
Lead	6.15	124	111	85	122	109	84	5	75-125	20	
Selenium	<0.622	124	111	90	122	112	92	-	75-125	20	
Silver	<0.249	124	119	96	122	119	98	0	75-125	20	
Lab Batch ID: 962630	QC- Sample ID: 502904-001 S	: 502904	-001 S	Ba	Batch #:	l Matris	Matrix: Soil				
Date Analyzed: 02/25/2015	Date Prepared: 02/25/2015	I: 02/25/2	015	Чu	Analyst: ARM	RM					
Reporting Units: mg/kg		~	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E/MATI	RIX SPII	XE DUPLICA	TE RECO	OVERY:	STUDY		
TPH By SW8015 Mod Analytes	Parent Sample Result	Spike Added IB1	Spiked Sample Result [C]	Spiked Sample %R	Spike Added IEl	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Casoline Range Hydrocarbons	<15.0	66	936	94	666	823	82	13	70-135	35	
C12-C28 Diesel Range Hydrocarbons	80.1	L66	0601	101	666	1070	66	2	70-135	35	

Matrix Spike Percent Rccovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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Sample Duplicate Recovery



### Project Name: Cal AB Launcher

Work Order #: 502904

Lab Batch #: 962556 Date Analyzed: 02/24/2015 17:30 E QC- Sample ID: 502839-001 D Reporting Units: %	Date Prepared: 02/24/201: Batch #: 1 SAMPLE	5 Ana	lyst: JUM rix: Soil	D: 701583.	
Percent Moisture Analyte	· Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	21.5	20.1	7	20	
Lab Batch #: 962556 Date Analyzed: 02/24/2015 17:30 E QC- Sample ID: 502839-011 D	Date Prepared: 02/24/2015 Batch #: 1		lyst:JUM rix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate <i>Result</i> [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.11	4.47	13	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

XENCO	Setting the Standard since 1990
X	Sotting the

# CHAIN OF CUSTODY

3-1800) Lakeland, Florida (363-949-8526)	-449-8800) Tampa, Florida (813-620-2000)	Xanto July 50000	Analytical Information 3. 2014-01-2014-01-2014-01-01-01-01-00-00-00-00-00-00-00-00-00-	A= AI	· S = Solt/Solt/Soltd		•	SL = Sludge WW = Water	W = Wipe	WW= Water		Field Comments					-					Notes: La Participation and Lateration and Lateration			· · ·		FED.EX / UPS: Tracking #	ICITATING UND	D IN Second By:	14 Contra Coolar Tayta. Therma. Carr. Factor	and conditions of service/inview previously neptiolizated under a tuby executed client contract.
Odessa, Texas (432-563-1800)	Norcross, Georgia (770-449-8800)	Xenco Quote #				<i>Q</i> 7	<u> </u>	7/	- দ চ্য	99 1 7	70 マミ ト フ	147 110 101 101 101										I I I I I I I I I I I I I I I I I I I	g /raw data)						Date Time:	Preserved where applicable	seinne XENCO's standard terths
·				AB Lacula	701583,144,01	() () ()	1-2		lick		A Distance of preserved bottles		1 1										Level IV (Full Data Pkg /raw data)	TRRP Level IV	ust/RG-411			Relinguisted By:	Z Relinquiehod By:	4 Custody Seal #	A VENIOU = Westerdate and the additions industriant and assisting XENOO's standard lands and industrians of additions of
		WWW.XBRCO.COM		ē		- 4	1		5 helden Hitch cock					04 5 1	20 5 1	39 5 1	iz 5 1					· · · · · · · · · · · · · · · · · · ·	iel II Si	Level It! Std QC+ Forms	Level 3 (CLP Forms)	TRAP Checklist		SAMPLE CUSTORY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, InCLUDING COURIER DELIVERY Data Times: A faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad By: 0 a faceboad	Wed By:	3 Received By:	PARTO - PARTO
				Project In	Project Name/	Project Location:	M Invoice To:				Asserving Collection Survey (12)	Sample Dark Dar	2/23/15/12		0, 10120	0' 1 10'39	0 1 10°42			-+							шd	Date Time: Rec:	2/2/16 1. 01 1. 01 1. 0	Date Time: 800	5
	•	as (210-509-3334)	A TRUE TRUE		N/LPE		<u>, Hrtesia, N</u> Phone No:	milde Kaha	5 holdon Hitchick	HIHMCOCK														T Day TAT	Contract TAT		ab, it received by 3:00				
Setting the Standard since 1990 Stafford,Texas (281-240-4200)	Dallas, Texas (214-902-0300)	Service Center - San Antonio, Texas (210-508-3334)		Client / Reporting Information	Company Name / Branch: TALON/LPE	Company Address:	408 W. JCras HVC. Artesia, NM	Children contraction	Project Contact: 5 Lover And Hitch Contact	Samplers's Name: Sinch ADM HIMUOUN		No. Field ID / Point of Collection	1-60	10	34-	* R (+ - 3 0)	126-4	9	7	8	6	10 <u>7. Rrd</u> Turnamund Tigte ( Bustness dava)	San	Next Day EMERGENCY	X 2 Day EMERGENCY	Day EMERGENCY	TAT Starts Day received by Lab, if received by 3:00 pm		Relinquished by:	3 Relinguished by:	5

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### XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 02/24/2015 12:56:21 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 502904	Temperature Measuring device used :
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	-1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Νο
#5 Custody Seals intact on sample bottles?	Νο
#6 *Custody Seals Signed and dated?	Νο
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Νο
#20 VOC samples have zero headspace (less than 1/4 inch l	bubble)? N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Is samples for the analysis of HEM or HEM-SGT which are verif analysts.	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnA	c+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mrs Horah Kelsey Brooks

Date: 02/24/2015

Checklist reviewed by:

Date: \_\_\_\_\_

### Analytical Report 508466

for Talon LPE

Project Manager: Sheldon Hitckcock

Cal AB Launcher

701583.144.01

29-MAY-15

Collected By: Client





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)





29-MAY-15 Project Manager: Sheldon Hitckcock Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 508466 Cal AB Launcher Project Address: A-8-265-29E

### Sheldon Hitckcock:

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) 508466. 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. 508466 will be filed for 60 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.

esnectfully.

Kelsey Brooks Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



### Sample Cross Reference 508466



### Talon LPE, Artesia, NM

Cal AB Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG-5 0'	S	05-22-15 11:07	- 0 ft	508466-001
BG-5 1'	S	05-22-15 11:10	- 1 ft	508466-002
BG-6 0'	S	05-22-15 11:22	- 0 ft	508466-003
BG-6 1'	S	05-22-15 11:27	- 1 ft	508466-004
BG-7 0'	S	05-22-15 11:40	- 0 ft	508466-005
BG-7 0.5' Refusal	S	05-22-15 11:45	5 ft	508466-006

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Client Name: Talon LPE Project Name: Cal AB Launcher

 Project ID:
 701583.144.01

 Work Order Number(s):
 508466

Report Date: 29-MAY-15 Date Received: 05/27/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



### Certificate of Analysis Summary 508466 Talon LPE, Artesia, NM





Project Id: 701583.144.01 Contact: Sheldon Hitckcock Project Location: A-8-265-29E

Date Received in Lab: Wed May-27-15 11:30 am Report Date: 29-MAY-15

<b>Project Manager:</b> Kelser Brooks           ed         Lab id:         508466-001         508466-003         508466-004         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005         508466-005	Project Location: A-8-265-29E							
Lab lat         S08466-001         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-003         508466-00						Project Manager: k	Kelsey Brooks	
Analysis Requested         Field Id.         BG-5 0'         BG-6 1'         BG-6 1'         BG-7 0'         BG-7 0''         BG-7 0''         BG-7 0'		Lab Id:	508466-001	508466-002	508466-003	508466-004	508466-005	508466-006
Antaryosa Acquester         Deptr.         0 ft         1 ft         0 ft $3011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $5011$ $50111$ $50111$ <	Analisia Domostad	Field 1d:	BG-5 0'	BG-5 l'	BG-6 0'	BG-6 1'	BG-7 0'	BG-7 0.5' Refusal
$ \begin{array}{l l l l l l l l l l l l l l l l l l l $	Haranhara wednesien	Depth:	0 ft	1 U	0 Ĥ	1 A	0 0	.s ft
		Mutrix:	SOIL	SOIL	SOIL	SOIL	SOIL,	SOIL
Mercury by SW 7471A         Evraced:         May-28-15 13:00         May-28-15 10:01         May-28-15 10:01         May-28-15 10:01         May-28-15 10:01         May-28-15 10		Sampled:	May-22-15 11:07	May-22-15 11:10	May-22-15 11:22	May-22-15 11:27	May-22-15 11:40	May-22-15 11:45
SUB: E871002         Anafyzett         May-28-15 16.21         May-28-15 16.29         May-28-15 16.31         May-28-15 16.36         May-28-15 10.36 <th>Mercury by SW 7471A</th> <th>Extracted:</th> <th>May-28-15 13:00</th> <th>May-28-15 13:00</th> <th>May-28-15 13:00</th> <th>May-28-15 13:00</th> <th>May-28-15 13:00</th> <th>May-28-15 13:00</th>	Mercury by SW 7471A	Extracted:	May-28-15 13:00	May-28-15 13:00	May-28-15 13:00	May-28-15 13:00	May-28-15 13:00	May-28-15 13:00
intervent         Units/RL:         mg/kg         RL	SUB: E871002	Analyzed	May-28-15 16:21	May-28-15 16:27	May-28-15 16:29	May-28-15 16:31	May-28-15 16:36	May-28-15 16:38
ry         ND         0.010         ND         0.018         ND         0.0179         ND         0.0179         ND         0           RCRA Metals by SW846-6010B         Extracted:         May-28-15 13:30         May-28-15 10:31         May-28-15 10:31         May-28-15 10:31         May-28-15 10:31         May-28-15 10:30         May-28-15 10:30         May-28-15 10:31         May-28-15 10:31		Units/RL:		mg/kg				mg/kg RL
RCRA Metals by SW846-6010B         Extracted:         May-28-15 13:30         May-28-15 10:31         May-29-15 10:31         May	Mercury			ŊŊ		1		ND 0.0182
SUB: E871002         Analyzed:         May-29-15 10:10         May-29-15 10:15         May-29-15 10:31         May-29-15 10:38         May-29-15 10:31         May-29-15 10:38         May-29-15 10:31         May-29-15 10:31 <th>RCRA Metals by SW846-6010B</th> <th>Extracted:</th> <th>May-28-15 13:30</th> <th>May-28-15 13:30</th> <th>May-28-15 13:30</th> <th>May-28-15 13:30</th> <th>May-28-15 13:30</th> <th>May-28-15 13:30</th>	RCRA Metals by SW846-6010B	Extracted:	May-28-15 13:30	May-28-15 13:30	May-28-15 13:30	May-28-15 13:30	May-28-15 13:30	May-28-15 13:30
	SUB: E871002	Analyzed:	May-29-15 10:10	May-29-15 10:18	May-29-15 10:25	May-29-15 10:31	May-29-15 10:38	May-29-15 10:59
c $2.81$ $2.00$ $4.11$ $2.00$ $ND$ $2.00$ $ND$ $1.96$ $1.91$ $1.72$ $1.82$ n $1.56$ $1.00$ $355$ $1.00$ $31.1$ $1.00$ $23.5$ $0.980$ $69.2$ $0.862$ $1.05$ num $ND$ $1.00$ $ND$ $1.00$ $ND$ $1.00$ $ND$ $0.960$ $69.2$ $0.862$ $1.05$ num $S.83$ $1.00$ $S.83$ $1.00$ $S.13$ $1.00$ $ND$ $0.960$ $6.19$ $0.862$ $ND$ num $S.85$ $1.00$ $5.58$ $1.00$ $3.13$ $1.00$ $1.71$ $0.980$ $6.19$ $0.862$ $6.71$ num $S.85$ $2.00$ $6.35$ $2.00$ $4.54$ $2.00$ $2.66$ $1.96$ $6.19$ $0.862$ $6.71$ num $ND$ $3.00$ $ND$ $3.00$ $ND$ $3.00$ $ND$ $3.00$ $ND$ $2.94$ $ND$ $2.59$ $ND$ num $ND$ $3.00$ $ND$ $3.00$ $ND$ $3.00$ $ND$ $2.04$ $ND$ $2.59$ $ND$		Units/RL:		mg/kg				mg/kg RL
n         156         1.00         355         1.00         31.1         1.00         23.5         0.980         69.2         0.862         105           um         ND         1.00         ND         1.00         ND         0.980         ND         0.862         ND           num         5.83         1.00         ND         1.00         ND         0.980         ND         0.862         ND           num         5.83         1.00         5.58         1.00         3.13         1.00         1.71         0.860         6.73         6.71           num         8.50         2.00         6.35         2.00         4.54         2.00         2.66         1.96         7.73         1.72         8.15           num         ND         3.00         ND         3.00         ND         3.00         ND         2.94         ND         2.59         ND	Arsenic			4.11				1.82 1.72
um     ND     1.00     ND     1.00     ND     0.860     ND     0.862     ND       num     5.83     1.00     5.58     1.00     5.13     1.00     1.71     0.980     6.19     0.862     6.71       num     8.50     2.00     6.35     2.00     4.54     2.00     2.66     1.96     7.73     1.72     8.15       nm     ND     3.00     ND     3.00     ND     3.00     ND     2.94     ND     2.59     ND       nD     3.00     ND     3.00     ND     3.00     ND     2.04     ND     2.59     ND	Barium			355				105 0.862
nium     5.83     1.00     5.58     1.00     3.13     1.00     1.71     0.980     6.19     0.862     6.71       8.50     2.00     6.35     2.00     4.54     2.00     2.66     1.96     7.73     1.72     8.15       um     ND     3.00     ND     3.00     ND     3.00     ND     2.94     ND     2.59     ND       ND     3.00     ND     3.00     ND     3.00     ND     2.04     ND     2.59     ND	Cadmium			QN				ND 0.862
ND         3.00         6.35         2.00         4.54         2.00         2.66         1.96         7.73         1.72         8.15           um         ND         3.00         ND         3.00         ND         3.00         ND         2.94         ND         2.59         ND           ND         3.00         ND         3.00         ND         3.00         ND         2.94         ND         2.59         ND	Chromium			5.58			i	6.71 0.862
um ND 3.00 ND 3.00 ND 3.00 ND 2.94 ND 2.59 ND ND 2.94 ND 2.59 ND ND 2.59 ND 2.69 ND 2.	Lead			6.35				8,15 1.72
ND 3.00 ND 3.00 ND 3.00 ND 2.94 ND 2.59 ND	Selenium			QN				ND 2.59
	Silver			QN				ND 2.59

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 Laboratones. 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

Runs Moah

Final 1.000

Kelsey Brooks Project Manager



### **Flagging Criteria**



- 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.
- A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or B 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
- SDL Sample Detection Limit LOD Limit of Detection MDL Method Detection Limit
- POL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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4143 Greenbriar Dr, Stafford, TX 77477 9701 Harry Hines Blvd , Dallas, TX 75220 5332 Blackberry Drive, San Antonio TX 78238 2505 North Falkenburg Rd, Tampa, FL 33619 12600 West I-20 East, Odessa, TX 79765 6017 Financial Drive, Norcross, GA 30071 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



### **BS / BSD Recoveries**





Work Urder #: 508466								Proj	ect ID: /	Project ID: /ullool.144.01	
Analyst: BHRE		ä	ate Prepar	Date Prepared: 05/28/2015	15 1			Date Ai	Date Analyzed: 05/28/2015	5/28/2015	
Lab Batch ID: 969103	Sample: 693124-1-BKS	BKS	Batch #:	ь#: 1					Matrix: Solid	bild	
Units: mg/kg			BLAN	K /BLANK	SPIKE / I	BLANK	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	LICATE	RECOVE	RY STUD	X
Mercury by SW 7471A		Blank Sample Result	Spike Added	Blank Soike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Cont Lim
		[V]		Result	%К		Duplicate	%R	%	%К	<u> </u>
Analytes			[ <u>B</u> ]	lcl	ē	E	Result [F]	<u>5</u>			

Flag

Control Limits %RPD

•												
Mercury		<0.0200	0.200	0.204	102	0.200	0.202	101	-	80-120	20	
Analyst: DEP		Di	ate Prepare	Date Prepared: 05/28/2015	15			Date Ar	nalyzed: 0	Date Analyzed: 05/29/2015	•	
Lab Batch ID: 969107	Sample: 693125-1-BKS	IKS	Batch #:	I#: I				·	Matrix: Solid	olid		
Units: mg/kg			BLAN	K /BLANK	SPIKE / I	<b>SLANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVE	RY STUD	Y	
RCRA Meta	RCRA Metals by SW846-6010B	Blank	Spike	Blank S. :	Blank	Spike	Blank A	Blk. Spk		Control	Control	
		Sample Kesur	Added	Spike Result	Spike	Added	Spike Duplicate	un. %R	КРИ %	Limits %R	LIMITS %RPD	1961 4
Analytes			[B]	[C]	<b>a</b>	[E]	Result [F]	[0]				
Arsenic		2.00	100	104	104	001	98.0	98	9	75-125	20	
Barium		<1.00	100	6'66	100	100	96.3	96	4	75-125	20	
Cadmium		<1.00	100	101	101	001	96.3	96	S	75-125	20	
Chromium		<1.00	100	104	104	100	100	100	4	75-125	20	

5 2 2

75-125

75-125

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75-125

98 96

102

100

99 105

105

8 8

3.00 3.00

> Selenium Silver

Lead

97.9 48.1

100 50.0

49.5

50.0

4 4 1

Relative Percent Difference RPD = 200\*(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 7 of 9

Final 1.000

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Y	Ĕ
	Į
U	2
X	3

# Form 3 - MS / MSD Recoveries

# Project Name: Cal AB Launcher



Work Order # :	508466						Project ID: 701583.144.01	: 701583	.144.01	
Lab Batch ID:	969103	QC- Sample ID: 508466-001 S	508466-	001 S	Ba	Batch #:	I Matrix: Soil	:: Soil		
Date Analyzed:	05/28/2015	Date Prepared: 05/28/2015	05/28/20	015	Λn	Analyst: BHRE	<b>3HRE</b>			
Reporting Units:	mg/kg		M	ATRIN SPIK	E / MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	re rec	OVERY 5	VUUTS
	Mercury by SW 7471A	Parent Sample	Spike	Spike	Spiked Sample	Spike	Spiked Daplicate Spike Spiked Sample	Spiked Dup.	RPD	Control Limits
	Analytes	Kesult [A]	Added [B]	<u>5</u>	R% IUI	Addeð  E]	Result [F]	% <b>R</b> [G]	%	Ж%
Mercury		<0.0200	0.200	0.214	101	0.192	0.205	107	4	75-125
Lab Batch 1D:	69107	QC- Sample ID: 508347-001 S	508347-	001 S	Ba	Batch #:	l Matrix: Soil	: Soil		
Date Analyzed:	05/29/2015	Date Prepared: 05/28/2015	05/28/2(	015	νv	Analyst: DEP	)EP			
Reporting Units:	mg/kg		N	ATRIX SPIK	E/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	FE REC	OVERY 5	YOUTS

Flag

Limits %RPD Control

Control Limits %R

20

### Flag × Control Limits %RPD 20 20 20 20 20 20 20 Control Limits %R 75-125 75-125 75-125 75-125 75-125 75-125 75-125 **IX SPIKE DUPLICATE RECOVERY STUDY** RPD % \_ 2 3 Spiked Dup. %R [G] 106 60 4 66 44 8 87 DuplicateSpikeSpiked SampleAddedResult |F| 119 113 113 52.2 166 138 169 59.9 E 120 120 120 120 120 120 Spiked Sample %R [D] 93 5 33 87 57 62 93 Spiked Sample S Result S 51.9 117 112 136 112 $\overline{\mathbf{O}}$ 163 171 Spike Added [B] 59.9 120 120 120 120 120 120 Parent Sample Result [A] <1.20 11.0 <3.59 <3.59 5.76 46.8 96.6 **RCRA Metals by SW846-6010B** Analytes 122 Chromium Cadmium Selenium Barium Arsenic Silver Lead at. 5,

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = Sec Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 05/27/2015 11:30:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 508466	Temperature Measuring device used :
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	2.5
#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 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch	bubble)? N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? samples for the analysis of HEM or HEM-SGT which are veri analysts.	
#22 >10 for all samples preserved with NaAsO2+NaOH, Zn/	Ac+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Date: 05/27/2015

Checklist completed by: Muss Kelsey Brooks Checklist reviewed by: Muss Kelsey Brooks Kelsey Brooks

Date: 05/27/2015

### Analytical Report 518518

for

Talon LPE

Project Manager: Sheldon Hitckcock

Cal A B Launcher

### 03-NOV-15

Collected By: Client





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





03-NOV-15 Project Manager: Sheldon Hitckcock Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 518518 Cal A B Launcher Project Address:

### Sheldon Hitckcock:

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) 518518. 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. 518518 will be filed for 60 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,

Huns Hoah

Kelsey Brooks Project Manager Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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### Sample Cross Reference 518518



### Talon LPE, Artesia, NM

Cal A B Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0'	S	10-29-15 15:00	- 0 ft	518518-001
S-2 0'	S	10-29-15 15:05	- 0 ft	518518-002
S-3 0'	S	10-29-15 15:10	- 0 ft	518518-003
S-4 0'	S	10-29-15 15:15	-0 ft	518518-004
S-5 0'	S	10-29-15 15:20	- 0 ft	518518-005
S-6 0'	S	10-29-15 15:25	- 0 ft	518518-006
S- 7 0'	S	10-29-15 15:30	- 0 ft	518518-007
S-1 0' Draw	S	10-29-15 16:20	-0 ft	518518-008
S-2 0' Draw	S	10-29-15 16:15	-0 ft	518518-009
S-3 0' Draw	S	10-29-15 16:10	- 0 ft	518518-010
S-4 0' Draw	S	10-29-15 16:25	- 0 ft	518518-011
S-5 0' Draw	S	10-29-15 16:05	- 0 ft	518518-012
S-6 0' Draw	S	10-29-15 16:00	- 0 ft	518518-013

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CASE NARRATIVE

Client Name: Talon LPE Project Name: Cal A B Launcher



Project ID: Work Order Number(s): 518518 Report Date: 03-NOV-15 Date Received: 10/31/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-980399 BTEX by EPA 8021B

Lab Sample ID 518518-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 518518-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Sheldon Hitckcock

Contact:

### Certificate of Analysis Summary 518518 Talon LPE, Artesia, NM Project Name: Cal A B Launcher



 Date Received in Lab:
 Sat Oct-31-15 12:50 pm

 Report Date:
 03-NOV-15

 Project Manager:
 Kelsey Brooks

Project Location:					Projec	Project Manager: Kelsey Brooks	3rooks
	Lab Id:	518518-001	518518-002	518518-003	518518-004	518518-005	518518-006
terraria Darmartad	Field Id:	S-1 0'	S-2 0'	S- 3 0'	S-4 0'	S-5 0'	S-6 0'
naisanhay sistimuy	Depth:	0 Ĥ	0 0	θŪ	U U	0 ft	0 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-29-15 15:00	Oct-29-15 15:05	Oct-29-15 15:10	Oct-29-15 15:15	Oct-29-15 15:20	Oct-29-15 15:25
BTEX by EPA 8021B	Extracted:	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00
	Analyzed:	Nov-02-15 12:36	Nov-02-15 12:53	Nov-03-15 10:46	Nov-02-15 14:31	Nov-02-15 14:48	Nov-03-15 11:02
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		ND 0.250	0.00100 0.00100	10100.0 CIN	00100-0 CIN	00100'0 CIN	ND 0.00100
Tolucne		2.91 0.500	0.0222 0.00201	ND 0.00202	ND 0.00201	0.0450 0.00200	ND 0.00200
Ethylbenzene		24.1 0.250	0.0130 0.00100	ND 0,00101	00100'0 CIN	0.0487 0.00100	ND 0.00100
m,p-Xylenes		29.7 0.500	0.152 0.00201	ND 0.00202	ND 0.00201	0.280 0.00200	ND 0.00200
o-Xylene		29.9 0.250	0.139 0.00100	10100'0 CIN	ND 0.00100	0.162 0.00100	0010070 CIN
Total Xylencs		59.6 0.250	0.291 0.00100	10100'0 CIN	ND 0.00100	0.442 0.00100	00100 0 CIN
Total BTEX		86.6 0.250	0.327 0.00100	10100:0 QN	ND 0.00100	0.536 0.00100	00100 QN
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-02-15 13:06	Nov-02-15 13:51	Nov-02-15 14:14	Nov-02-15 14:37	Nov-02-15 14:59	Nov-02-15 17:56
	Analyzed:	Nov-02-15 13:06	Nov-02-15 13:51	Nov-02-15 22:51	Nov-02-15 14:37	Nov-02-15 14:59	Nov-02-15 17:56
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		149 100	74.4 40.0	ND 2.00	ND 2.00	114 100	1520 200
TPH by SW 8015B	Extracted:	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00
	Analyzed:	Nov-03-15 11:23	Nov-02-15 14:40	Nov-02-15 15:08	Nov-02-15 15:36	Nov-03-15 11:51	Nov-02-15 16:30
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons	-	389 74.9	252 15.0	ND 14.9	ND 15.0	389 74.9	ND 15.0
C10-C28 Diesel Range Hydrocarbons		9720 74.9	4680 15.0	ND 14.9	ND 15.0	7040 74.9	ND 15.0
C28-C35 Oil Range Hydrocarbons		1260 74.9	327 15.0	ND 14.9	ND 15.0	838 74.9	ND 15.0
Total TPH		11400 74.9	5260 15.0	ND 14.9	ND 15.0	8270 74.9	ND 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and returble septessed throughout this analytical toport represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no repossibility and markes no warranzy to the end use of field at breeky presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Murs Roal Kelsey Brooks Project Manager



Sheldon Hitckcock

Contact:

### Certificate of Analysis Summary 518518 Talon LPE, Artesia, NM



Project Name: Cal A B Launcher

Date Received in Lab: Sat Oct-31-15 12:50 pm Project Manager: Kelsey Brooks Report Date: 03-NOV-15

Project Location:					Projec	Project Manager: Kelsey Brooks	Jrooks
	Lab 1d:	518518-007	518518-008	518518-009	518518-010	518518-011	518518-012
A sector Descripted	Field Id:	S- 7 0'	S-1 0' Draw	S-2 0' Draw	S-3 0' Draw	S-4 0' Draw	S-5 0' Draw
Anaiysis Kequesied	Depth:	0 ft	0 A	0 ft	0 U	0 Ĥ	0 Ĥ
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-29-15 15:30	Oct-29-15 16:20	Oct-29-15 16:15	Oct-29-15 16:10	Oct-29-15 16:25	Oct-29-15 16:05
BTEX by EPA 8021B	Extracted:	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00	Nov-02-15 10:00
	Analyzed:	Nov-03-15 11:19	Nov-03-15 15:18	Nov-03-15 12:23	Nov-03-15 12:06	Nov-03-15 15:01	Nov-03-15 12:57
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		CIN 0.000992	ND 0.00101	00100'0 QN	10100.0 CIN	ND 0.00166	0.00166 0.000998
Tolucne		ND 0.00198	ND 0.00202	0.0382 0.00200	ND 0.00202	ND 0.00332	ND 0.00200
Ethylbenzene		266000.0 CIN	ND 0.00101	00100 0 QN	ND 0.00101	ND 0.00166	ND 0.00098
m.p-Xylenes		86100.0 GN	0.0278 0.00202	0.400 0.00200	0.0474 0.00202	ND 0.00332	ND 0.00200
o-Xylene		266000.0 CIN	0.0240 0.00101	0.291 0.00100	0.0351 0.00101	ND 0.00166	ND 0.00098
Total Xylenes		266000.0 CIN	0.0518 0.00101	0.691 0.00100	0.0825 0.00101	ND 0.00166	ND 0.000998
Total BTEX		ND 0.000992	0.0518 0.00101	0.729 0.00100	0.0825 0.00101	99100 <sup>.0</sup> UN	0.00166 0.000998
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-02-15 18.19	Nov-02-15 18:41	Nov-02-15 19:04	Nov-02-15 19:27	Nov-02-15 19:49	Nov-02-15 20:35
	Analyzed:	Nov-02-15 18:19	Nov-02-15 18:41	Nov-02-15 19:04	Nov-02-15 19:27	Nov-02-15 19:49	Nov-02-15 20:35
_	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg R1.	mg/kg RL	mg/kg RL
Chloride		4370 400	23.1 10.0	69.2 40.0	823 100	499 100	1160 100
TPH by SW 8015B	Extracted:	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00	Nov-02-15 09:00
	Analyzed:	Nov-02-15 16:56	Nov-02-15 18:05	Nov-03-15 12:18	Nov-02-15 18:58	Nov-02-15 19:50	Nov-02-15 20:48
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons	-	ND 14.9	85.8 15.0	306 300	118 14.9	ND 15.0	ND 15.0
C10-C28 Diesel Range Hydrocarbons		ND 14.9	691 15.0	7850 300	2850 14.9	ND 15.0	ND 15.0
C28-C35 Oil Range Hydrocarbons		ND 14.9	153 15.0	1170 300	279 14.9	ND 15.0	ND 15.0
Total TPH		ND 14.9	930 15.0	9330 300	3250 14.9	ND 15.0	ND 15.0

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Min & Moad Kelsey Brooks Project Manager

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Sheldon Hitckcock

**Project Location:** 

Contact:

### Certificate of Analysis Summary 518518 Talon LPE, Artesia, NM

Project Name: Cal A B Launcher



Date Received in Lab: Sat Oct-31-15 12:50 pm Report Date: 03'-NOV-15 Project Manager: Kelsey Brooks

La Analysis Requested D			
·••	Lab Id:	518518-013	
	Field Id:	S-6 0' Draw	
	Depth:	0 ft	
W I	Matrix:	SOIL	
Sam	Sampled:	Oct-29-15 16:00	
BTEX by EPA 8021B Extra	Extracted:	Nov-02-15 10:00	
Anal	Analyzed:	Nov-02-15 18:39	
. Units	Units/RL:	mg/kg RL	
Benzene		2600092 UN	
Toluene		86100'0 CIN	
Ethylbenzene		ND 0.000992	
m,p-Xylenes		86100'0 GN	
o-Xylene	 	ND 0.000922	
Total Xylenes	-	ND, 0.000992	
Total BTEX		ND 0.000992	
Inorganic Anions by EPA 300/300.1 Extra	Extracted:	Nov-02-15 20:57	1-
And	Analyzed:	Nov-02-15 20:57	
Unic	Units/RL:	mg/kg RL	
Chloride			
TPH by SW 8015B Extra	Extracted:	Nov-02-15 09:00	
Anal	Analyzed:	Nov-02-15 21:15	
Unic	Units/RL:	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons	_		
C10-C28 Diesel Range Hydrocarbons			
C28-C35 Oil Range Hydrocarbons		ND 15.0	
Total TPH		ND 15.0	

This analy rical report, and the entite data package it represents, has been made for yoour exclusive and confidential use. The intropretations and results expressed throughout this analytical report represent the best juggment of XNNCO Laborations. XENCO Laboratories assumes no responsibility and makes no warranty to the end uso 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

Mund Roah

Kelsey Brooks Project Manager

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### **Flagging Criteria**



- 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,
- The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Ð 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
- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	



Project Name: Cal A B Launcher

Amount Found [A] 0.0267 0.0359 Batch: SUR Amount Found [A] 0.0244 0.0306 Batch:	RROGATE R True Amount JBJ 0.0300 0.0300	Recovery %R [D]           89           120           c: Soil           Recovery %R [D]           81           102           c: Soil	Control Limits %R 80-120 80-120 STUDY Control Limits %R 80-120 80-120	Flags
Found [A] 0.0267 0.0359 Batch: SUR Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	Amount [B] 0.0300 0.0300 1 Matrix ROGATE R Amount 1B] 0.0300 0.0300 1 Matrix ROGATE R True True	%R         [D]           89         120           :: Soil         Recovery           %R         [D]           81         102           :: Soil         RECOVERY S	Limits %R 80-120 80-120 STUDY Control Limits %R 80-120 80-120 STUDY	
0.0359 Batch: SUR Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	0.0300 1 Matrix ROGATE R True Amount 1B1 0.0300 0.0300 1 Matrix ROGATE R True	89           120           c: Soil           Recovery           %R           [D]           81           102           c: Soil	80-120 STUDY Control Limits %R 80-120 80-120 STUDY	Flags
0.0359 Batch: SUR Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	0.0300 1 Matrix ROGATE R True Amount 1B1 0.0300 0.0300 1 Matrix ROGATE R True	120           :: Soil           Recovery           %R           [D]           81           102           :: Soil           RECOVERY S	80-120 STUDY Control Limits %R 80-120 80-120 STUDY	Flags
Batch: SUR Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	I Matrix RROGATE R True Amount JBJ 0.0300 0.0300 I Matrix RROGATE R True	c: Soil RECOVERY S %R [D] 81 102 c: Soil RECOVERY S	STUDY Control Limits %R 80-120 80-120 STUDY	Flags
SUR Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	RROGATE R True Amount JBJ 0.0300 0.0300 1 Matrix RROGATE R True	RECOVERY S Recovery %R [D] 81 102 (: Soil RECOVERY S	Control Limits %R 80-120 80-120 STUDY	Flags
Amount Found [A] 0.0244 0.0306 Batch: SUR Amount Found	True Amount JBJ 0.0300 0.0300 1 Matrix RROGATE R True	Recovery %R [D] 81 102 (: Soil RECOVERY S	Control Limits %R 80-120 80-120 STUDY	Flags
Found [A] 0.0244 0.0306 Batch: SUR Amount Found	Amount 1B1 0.0300 0.0300 1 Matrix ROGATE R True	%R [D] 81 102 :: Soil RECOVERY S	Limits %R 80-120 80-120 STUDY	Flags
0.0306 Batch: SUR Amount Found	0.0300 I Matrix RROGATE R	102 K: Soil RECOVERY S	80-120 STUDY	
0.0306 Batch: SUR Amount Found	0.0300 I Matrix RROGATE R	102 K: Soil RECOVERY S	80-120 STUDY	
Batch: SUR Amount Found	I Matrix RROGATE R True	:: Soil RECOVERY S	STUDY	
SUR Amount Found	RROGATE R	ECOVERY S		
Amount Found	True			
Found			Control	
	[B]	Recovery %R [D]	Limits %R	Flags
0.0286	0.0300	95	80-120	
			· ·	
			80-120	
SUR	RROGATE R	ECOVERY S	STUDY	
Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	04.5		<b>B0</b> (55	
			70-135	
		_		
SUR	ROGATE R	RECOVERY S	STUDY	
Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
0.0208	0.0300		80.120	
~		_		
	SUF Amount Found [A] 93.2 42.9 Batch SUF Amount Found	Batch:     1     Matrix       SURROGATE R       Amount     True       Found     Amount       [A]     [B]       93.2     99.9       42.9     50.0       Batch:     1       Matrix       SURROGATE       Amount       [A]       [A]       [B]       0.0298       0.0300	Batch:1Matrix:SoilSURROGATE RECOVERY SAmount Found [A]True Amount [B]Recovery %R [D]93.299.99342.950.086Batch:1Matrix:SoilSURROGATE RECOVERY SAmount Found [A]True (B]Recovery %R [D]0.02980.030099	Batch: 1 Matrix: SoilSURROGATE RECOVERY STUDYAmount Found [A]True Amount [B]Recovery %R [D]Control Limits %R93.299.99370-13593.299.99370-13542.950.08670-135Batch:1Matrix: SoilSURROGATE RECOVERY STUDYAmount Found [A]True (B]Recovery %R [D]Control Limits %R0.02980.03009980-120

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

Work Ord Lab Batch #:		8, Sample: 518518-003 / SMP	Batch	Project ID : 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/02/15 15:08	SUF	RROGATE R	ECOVERY	STUDY	
	TP	H by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		77.4	99.6	78	70-135	
o-Terphenyl			36.4	49.8	73	70-135	
Lab Batch #:	980504	Sample: 518518-004 / SMP	Batch	1 Matrix	:: Soil		
Units:	mg/kg	Date Analyzed: 11/02/15 15:36	SUF	ROGATE R	ECOVERY	STUDY	
	TPł	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan	<u>e</u>		86.2	99.9	86	70-135	
o-Terphenyl			40.8	50.0	80	70-135	
Lab Batch #:	980504	Sample: 518518-006 / SMP	Batch:			70-155	
Units:	mg/kg	Date Analyzed: 11/02/15 16:30		ROGATE R		TUDY	
		Date Analyzed. 11/02/19 10:00		KOGATE N			
	TPI	H by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	,	Analytes			[D]		
1-Chlorooctan	e		87.7	99.9	88	70-135	
o-Terphenyl			41.1	50.0	82	70-135	
Lab Batch #:	980504	Sample: 518518-007 / SMP	Batch	l Matrix	: Soil	·	
Units:	mg/kg	Date Analyzed: 11/02/15 16:56	SUF	ROGATE R	ECOVERY	STUDY	
	TPF	H by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		_
1-Chlorooctan	e		84.1	99.6	84	70-135	
o-Terphenyl			39.6	49.8	80	70-135	
Lab Batch #:	980504	Sample: 518518-008 / SMP	Batch	: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/02/15 18:05	SUF	ROGATE R	ECOVERY S	STUDY	
	ТР	H by SW 8015B	Amount Found [A]	True Amount  B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		89.5	100	90	70-135	
o-Terphenyl	_		64.4	50.0	129	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

.

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

Work Ord Lab Batch #:		8, Sample: 518518-013 / SMP	Batch:	Project ID 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/02/15 18:39	SUR	ROGATE R	ECOVERY S	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobe			0.0288	0.0300	96	80-120	
4-Bromofluor	obenzene		0.0319	0.0300	106	80-120	_
Lab Batch #:	980504	Sample: 518518-010 / SMP	Batch:	l Matrix	a: Soil		
Units:	mg/kg	Date Analyzed: 11/02/15 18:58	SUR	ROGATE R	ECOVERY S	STUDY	
	TPF	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooctan	e		98.9	99.6	99	70-135	
o-Terphenyl	00000		47.4	49.8	95	70-135	
Lab Batch #:		Sample: 518518-011 / SMP	Batch:		_		
Units:	mg/kg	Date Analyzed: 11/02/15 19:50	SUR	ROGATE R	ECOVERY S	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		91.1	99.9	91	70-135	
o-Terphenyl			42.5	50.0	85	70-135	
Lab Batch #:	980504	Sample: 518518-012 / SMP	Batch:	1 Matrix	: Soil	1	
Units:	mg/kg	Date Analyzed: 11/02/15 20:48	SUR	ROGATE R	ECOVERY S	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		84.3	99.7	85	70-135	
o-Terphenyl			39.5	49.9	79	70-135	
Lab Batch #:	980504	Sample: 518518-013 / SMP	Batch:	I Matrix	: Soil	I	
Units:	tng/kg	Date Analyzed: 11/02/15 21:15	SUR	ROGATE R	ECOVERY S	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			- [D]		
1-Chlorooctan	e		88.2	99.9	88	70-135	
o-Terphenyl			41.2	50.0	82	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

Work Or Lab Batch	<b>ders :</b> 51851 #: 980399	8, Sample: 518518-003 / SMP	Batch	Project ID : 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/03/15 10:46	SUI	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0348	0.0300	116	80-120	
4-Bromoflue			0.0283	0.0300	94	80-120	
Lab Batch	#: 980399 -	Sample: 518518-0067 SMP	Batch	: 1 Matrix	:: Soil		
Units:	mg/kg	Date Analyzed: 11/03/15 11:02	SUF	ROGATE R	ECOVERY S	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	hansono	Analytes	0.0122			00.120	. <u> </u>
4-Bromoflue			0.0333	0.0300	- 111	80-120	
Lab Batch		C	0.0274	0.0300	91	80-120	
		Sample: 518518-007 / SMP	Batch				
Units:	mg/kg	Date Analyzed: 11/03/15 11:19	SUF	RROGATE R	ECOVERY S	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0341	0.0300	114	80-120	-
4-Bromoflue	probenzene		0.0295	0.0300	98	80-120	
Lab Batch	#: 980504	Sample: 518518-001 / SMP	Batch	1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/03/15 11:23	SUF	ROGATE R	ECOVERY S	STUDY	
	TPH	[ by SW 8015B	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
I-Chlorooct	ane		108	99.9	108	70-135	
o-Terphenyl			41.4	50.0	83	70-135	
Lab Batch		Sample: 518518-005 / SMP	Batch		_		
Units:	mg/kg	Date Analyzed: 11/03/15 11:51	SUF	ROGATE R	ECOVERY	STUDY	
	TPH	l by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes		. <b></b>	[D]		
1-Chlorooct	ane		112	99.8	112	70-135	
o-Terphenyl			35.7	49.9	72	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

Lab Batch #	: 980399	Sample: 518518-010 / SMP	Batel	h: I Matri	ix: Soil		
Units:	mg/kg	Date Analyzed: 11/03/15 12:06	SU	RROGATE	RECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			D]		
1,4-Difluorol			0.0305	0.0300	102	80-120	L
4-Bromofluo			0.0355	0.0300	118	80-120	
Lab Batch #	: 980504	Sample: 518518-009 / SMP	Batel	h: 1 Matri	ix: Soil		
Units:	mg/kg	Date Analyzed: 11/03/15 12:18	SU	RROGATE	RECOVERY	STUDY	
	TP	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chloroocta	ne		85.9	99,9	86	70-135	
o-Terphenyl	- <u>-</u>		47.2	50.0	- 94	70-135	
Lab Batch #	: 980399	Sample: 518518-009 / SMP	Batch	h: I Matri	ix: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 11/03/15 12:23	SU	RROGATE	RECOVERYS	STUDY	
	BTE	X by EPA 8021B . Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluorol	enzene		0.0321	0.0300	107	80-120	i —
4-Bromofluo	robenzene	·····	0.0270	0.0300	90	80-120	
Lab Batch #	: 980399	Sample: 518518-012 / SMP	Batel	h: 1 Matri	x: Soil	I	
Units:	mg/kg	Date Analyzed: 11/03/15 12:57	SU	RROGATE	RECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorot	enzene		0.0328	0.0300	109	80-120	
4-Bromofluo	robenzene		0.0308	0.0300	103	80-120	
Lab Batch #	: 980399	Sample: 518518-011 / SMP	Batch	h: 1 Matri	ix: Soil	<u> </u>	·
Units:	mg/kg	Date Analyzed: 11/03/15 15:01	SU	RROGATE	RECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1.4-Difluorol	enzene		0.0284	0.0300	95	80-120	1

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

.

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

	r <b>ders :</b> 51851 #: 980399	8, Sample: 518518-008 / SMP	Batch	Project ID n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/03/15 15:18	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			D		
1,4-Difluor			0.0319	0.0300	106	80-120	
	lorobenzene		0.0342	0.0300	114	80-120	
Lab Batch	#: 980504	Sample: 700368-1-BLK / BL	K Batch	n: 1 Matrix	: Solid		
U <b>nits:</b>	mg/kg	Date Analyzed: 11/02/15 13:20	SU	RROGATE R	ECOVERY S	STUDY	
	TPł	I by SW 8015B Analytes	Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	Analytes	101	100		70-135	
o-Terpheny				50.0	101 97		
	#: 980399	Sample: 700313-1-BLK / BL	48.6 K Batch			70-135	<u> </u>
Units:	mg/kg	Date Analyzed: 11/02/15 16:10	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluor	obenzene		0.0304	0.0300	101	80-120	
	orobenzene		0.0344	0.0300	115	80-120	
Lab Batch	#: 980399	Sample: 700313-1-BKS / BK	S Batch	i: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/02/15 09:36	SU	RROGATE R	<b>ECOVERY</b> S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.1.5.0	-;	Analytes					
1,4-Difluor			0.0270	0 0300	90	80-120	
	#: 980504	Sample: 700368-1-BKS / BK	0.0337	0.0300 1: 1 Matrix	112 • Solid	80-120	
		_					
Units:	mg/kg	Date Analyzed: 11/02/15 12:26	SU.	RROGATE R	ECOVERY S	STUDY	
	TPF	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
I-Chlorooc			112	100	112	70-135	
o-Terpheny	1		47.4	50.0	95	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B



Project Name: Cal A B Launcher

.ab Batch #	: 980399	Sample:	700313-1-BSD / BS	SD Bate	h: 1 Matr	ix: Solid		
Units:	mg/kg	Date Analyzed:	11/02/15 09:52	st	RROGATE	RECOVERY	STUDY	
	BTE	X by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes				[D]		
1,4-Difluorob	enzene			0.0329	0.0300	110	80-120	
4-Bromofluor	obenzene			0.0345	0.0300	115	80-120	
Lab Batch #	: 980504	Sample:	700368-1-BSD / BS	SD Bate	h: 1 Matr	ix: Solid		
Units:	mg/kg	Date Analyzed:	11/03/15 10:55	SL	RROGATE	RECOVERYS	STUDY	
	TPH	I by SW 8015B Analytes		Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar		Anarytes		121	100	121	70-135	
o-Terphenyl				46.6	50.0	93	70-135	·
Lab Batch #	: 980399	Sample:	518518-003 S / MS	Bate		ix: Soil		
Units:	mg/kg	Date Analyzed:				RECOVERYS	STUDY	
	BTEX	K by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes				D		
1,4-Difluorob				0.0290	0.0300	97	80-120	
4-Bromofluor				0.0341	0.0300	114	80-120	
Lab Batch #	: 980504	Sample:	518518-003 S / MS	Bate	h: 1 Matr	ix: Soil		
Units:	mg/kg	Date Analyzed:	11/02/15 21:41	su	RROGATE	RECOVERY S	STUDY	
	TPH	I by SW 8015B Analytes		Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctar		Anarytes	<u></u> _	107	99.7	107	70-135	
o-Terphenyl				44.7	49.9	90	70-135	
Lab Batch #	: 980399	Sample:	518518-003 SD / M			ix: Soil	, , , , , , , , , , , , , , , , , , , ,	
Units:	mg/kg	Date Analyzed:				RECOVERYS	STUDY	
	втех	K by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes				[D]		
1,4-Difluorob				0.0310	0.0300	103	80-120	
4-Bromofluor	obenzene			0.0332	0.0300	111	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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Project Name: Cal A B Launcher

	r <b>ders : 518</b> 51 #: 980504	8, Sample: 518518-003 SD / M	4SD Bate	Project ID: h: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 11/03/15 12:50	su	RROGATE R	COVERY	STUDY	<u> </u>
	TPI	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
i-Chlorooct	tane		108	99.9	108	70-135	
o-Terpheny	·		44.9	50.0	90	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

ŬZ	BURATURIES

**BS / BSD Recoveries** 



Project Name: Cal A B Launcher

BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY Date Prepared: 11/02/2015 Batch #: 1 Sample: 700313-1-BKS Work Order #: 518518 Lab Batch ID: 980399 mg/kg SYG Analyst: Units:

Date Analyzed: 11/02/2015

Project ID:

Matrix: Solid

Sudm.			BEAN	VIDPANN S	PINE / I	2 UNIETS	BLANN /BLANN SPINE / BLANN SPINE UUPLILATE RELUVERT STUDT	JUAIE J	KELUVI			_
BTEX by EPA 8021B	21B	Blank Sample Result  A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[8]	[C]	<u>e</u>	[3]	Result [F]	<u>ច</u>				
Benzene		<0.000994	0.0994	0.0799	80	0.0998	0.0801	80	0	70-130	35	
Toluenc		<0.00199	0.0994	0.0802	81	0.0998	0.0845	85	ν	70-130	35	
Ethylbenzene		<0.000994	0.0994	0.0860	87	0.0998	0.0896	90	4	71-129	35	
m.p-Xylenes		<0.00199	0.199	0.175	88	0.200	0.181	16	m	70-135	35	
o-Xylene		<0.000994	0.0994	0.0862	87	0.0998	0.0896	90	4	71-133	35	
Analyst: MNR		Da	te Prepare	Date Prepared: 11/02/2015	5			Date Ar	nalyzed: 1	Date Analyzed: 11/02/2015		
Lab Batch ID: 980471	Sample: 700319-1-BKS	sks	Batch #:	#: 1					Matrix: Solid	solid		
Units: mg/kg			BLAN	K/BLANK S	SPIKE / I	<b>SLANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVE	ERY STUD	Y	
Inorganic Anions by EPA 300/300.1	A 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk, Spk Dup.	RPD *	Control Limits	Control Limits	Flag
Analytes		<u>v</u>	[ <b>B</b> ]	[C]	¥% [0]	[E]	Dupncate Result [F]	<u>ы</u>	0/_	N9/	%AKFU	

20

011-06

0

98

48.8

50.0 [E]

98

48.8

50.0 <u>B</u>

2.00

Chloride

Relative Percent Difference RPD = 200\*{(C-F)/(C+F)} Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

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Final 1.000



## **BS / BSD Recoveries**



Project Name: Cal A B Launcher

Work Ord	Work Order #: 518518								Project ID:			
Analyst: PJB	PJB		D	Date Prepared: 11/02/2015	: 11/02/2015				Date Analyzed: 11/02/2015	1/02/2015		
Lab Batch	Lab Batch ID: 980504	Sample: 700368-1-BKS	KS	Batch #: 1	<del>-</del>				Matrix: Solid	olid		
Units:	mg/kg			BLANK	/BLANK SI	PIKE / B	LANK SPIF	KE DUPLIC	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	<b>RY STUD</b>	Y	
	TPH by SW 8015B	8015B	Blank	Blank Spike	Blank	Blank	Blank Blank Spike Blank Blk. Spk	3lank   Bl	k. Spk	Control Control	Control	

TPH by SW 8015B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	BIK. Spk Dup.	RPD	Control Limits	Control Limits	Flag
	V		Result	%R		Duplicate	%К	%	%R	%RPD	
Analytes		[B]	[C]	lal	[E]	Result [F]	C				
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	833	83	1000	945	95	13	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	0001	1130	113	1000	1210	121	7	70-135	35	

Relative Percent Difference RPD = 200\*((C-F)/(C+F)) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 18 of 23



### Form 3 - MS Recoveries

Date Prepared: 11/02/2015

Batch #: 1



Project Name: Cal A B Launcher

I	norganic Anions by EPA 30
Reporting Units:	mg/kg
QC- Sample ID:	518518-001 S
Date Analyzed:	11/02/2015
Lab Batch #:	980471
Work Order #:	518518

### Project ID: Analyst: MNR

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	149	2500	2600	98	80-120	
Lab Batch #: 980471	l., <u></u>					1
Date Analyzed: 11/02/2015	Date Prepared: 11/0	2/2015	А	.nalyst: N	MNR	
QC- Sample ID: 518518-011 S	Batch #: 1		N	Matrix: S	Soil	
Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Addeđ	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	499	2500	3020	101	80-120	j

Matrix Spike Percent Recovery  $[D] = 100^{+}(C-A)/B$ Relative Percent Difference  $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



## Form 3 - MS / MSD Recoveries





Work Order # :	518518
Lab Batch ID:	980399
Date Analyzed:	11/02/2015
Reporting Units:	mg/kg
	BTEX by EPA 8021F

Matrix: Soil Project ID: ---

> QC-Sample ID: 518518-003 S Date Prepared: 11/02/2015

Analyst: SYG Batch #:

,	0											
BT	BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	<u>[</u> ]	жв 101	Added [E]	Result [F]	%к [Gl	%	%R	%RPD	
Benzene		<0.00101	0.101	<0.00101	0	0.101	<0.00101	0	NC	0£1-0L	35	х
Toluene		<0.00202	0.101	<0.00202	0	0.101	<0.00201	0	NC	70-130	35	×
Ethylbenzene		<0.00101	0.101	<0.00101	0	0.101	<0.00101	0	NC	71-129	35	×
m,p-Xylenes		<0.00202	0.202	<0.00202	0	0.201	<0.00201	0	NC	70-135	35	×
o-Xylene		<0.00101	0.101	<0.00101	0	0.101	<0.00101	0	NC	71-133	35	×
Lab Batch ID: 9	980504 Q	QC-Sample ID:	518518-003 S	003 S	Bat	Batch #:	1 Matrix	Matrix: Soil				
Date Analyzed: 1	11/02/2015 E	Date Prepared: 11/02/2015	11/02/20	115	Αn	Analyst: PJB	B					
Reporting Units: n	ng/kg		Μ	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E/MATI	RIX SPIF	<b>(E DUPLICA</b>	IE RECO	<b>DVERV</b>	STUDY		
	TPH by SW 8015B	Parent Sample	Spike	imple It	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	<u>D</u>	л% ГО]	Added [E]	Result [F]	%R  G	%	%R	%RPD	

35 35

Ξ 6

70-135 70-135

128 66

1280 991

666 666

89 117

799 797

<15.0 <15.0

C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Hydrocarbons

1170 890

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quanitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Видент         Виденt         Bigent	Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов         Полов <t< th=""><th>Полония и инструкций         Полония /th><th></th><th></th><th><ul> <li>4143 Greenbriar Drive, Stafford, TX 77477 28</li> <li>5332, Blackberry Drive, San Antonio, TX 79238</li> <li>500, 17, 010</li> </ul></th><th>Stafford, TX San Antonio</th><th>17.77 7.XT</th><th>N 13</th><th>- '<b>T</b> 1.</th><th><b>281-240-4200</b> 38 210-509-33</th><th>3334</th><th></th><th></th><th><b>7</b> 126(</th><th>1 Hamy 00 Wes</th><th>9701 Harry Hines Blvd., Dallas, TX 75220           777 15200 West I-20 East, Odesse, TX 79765</th><th>Blvd., I East, O</th><th>Dalias, dessa,</th><th>TX 752 TX 797(</th><th></th><th>214-802-0300 432-563-1800</th><th>-0300</th><th>Sel.</th><th>Serial #:</th><th></th><th>330928</th><th>20</th><th>Page</th><th></th><th>[∕] ĕ</th></t<>	Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония и инструкций         Полония			<ul> <li>4143 Greenbriar Drive, Stafford, TX 77477 28</li> <li>5332, Blackberry Drive, San Antonio, TX 79238</li> <li>500, 17, 010</li> </ul>	Stafford, TX San Antonio	17.77 7.XT	N 13	- ' <b>T</b> 1.	<b>281-240-4200</b> 38 210-509-33	3334			<b>7</b> 126(	1 Hamy 00 Wes	9701 Harry Hines Blvd., Dallas, TX 75220           777 15200 West I-20 East, Odesse, TX 79765	Blvd., I East, O	Dalias, dessa,	TX 752 TX 797(		214-802-0300 432-563-1800	-0300	Sel.	Serial #:		330928	20	Page		[∕] ĕ
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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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XENCO Laboratories	<ul> <li>4143 Greenbriar Drive, Stafford, TX 77477 281-240-420</li> <li>5332, Blackberry Drive, San Antonio, TX 78238 210-509.</li> </ul>	/e, Stafford, TX 7/ /e, San Antonio, 1	7477 281- 1X 78238	81-24 ) 21(	-4200 -509-3334	8			9701 Harry	Hines E t I-20 E	3hd., Da ast, Ode	9701 Harry Hines Blvd., Dallas, TX 75220 12600 West I-20 East, Odesse, TX 79765	75220 79765	214-8	214-902-0300 432-563-1800		Serlal #;	330			Page	ه ک	N	
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3 5)			Π	6		$\left  \right $			Π	F	Ē		heret	% reduc	sted. Ru	hereby requested. Rush Charges and Collection Fees are pre-approved if needed.	es and (	Collectio	n Fees	are pre-	approv	ed if nee	ded.	
Preservatives: Various (V), HCI pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Cont. Size: 4oz (4), Boz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Te Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	HCI pH<2 (H), H2 32oz ( <b>32</b> ), 40ml Solid (S), Water (	:SO4 pH<2 (S) I VOA (40), 1L W), Liquid (L)	HN05 (1)	3 pH4 00ml (1		Asbc Acid&NaOH (A), ZnAc&Na diar Bag (B), Various (V), Other Committed to Excell	&NaOl 3), Val mmit	cid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA g (B), Various (V), Other Cont. Typ Committed to Excellence in Service and Quality	nAc&N), Other	er	z), (Co e <i>in</i> S	ol, <40	(c) (c)	None (NA).S Cont. Type: d' Quality	VA),See Vpe: G (fy	Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cooi, <4C) (C), None (NA),See Label (L), Other (O) diar Bag (B), Various (V), Other Cont. Type: Giass Amb (A), Glass Committed to Excellence in Service and Quality	(A), Oth	her ( <b>O</b> ) - Glass C	Clear (C),	ă.	tic (P). ww.xe	Plastic (P), Various (V) www.xenco.com	S mo	
	Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract subcontractors.	of this document d assigns under	and reli Xenco's	inquishr standa	nent of t rd terms	ese sam and con	ples cor litions o	service service	a valid p untess	previous	e order sly negr	from dli otiated u	ent com Inder a	pany to fully exe	Xenco La cuted clie	samples constitutes a valid purchase order from dient company to Xenco Laboratories and its affiliates, conditions of service unless previously negotiated under a fully executed client contract.	t and its t	affiliates						

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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## **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Taion LPE Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/31/2015 12:50:00 PM Temperature Measuring device used : Work Order #: 518518 Comments Sample Receipt Checklist <sup>9</sup> #1 \*Temperature of cooler(s)? 3 #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 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

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

Analyst:

PH Device/Lot#:

Date: 10/31/2015

Checklist completed by: Minerva Rios Checklist reviewed by: Museumona Kelsey Brooks

Date: 11/03/2015

## Analytical Report 519768

for

**Talon LPE** 

**Project Manager: Sheldon Hitckcock** 

Cal A/B Launcher

## 27-NOV-15

Collected By: Client





## 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)





27-NOV-15
Project Manager: Sheldon Hitckcock
Talon LPE
408 W. Texas St.
Artesia, NM 88210

Reference: XENCO Report No(s): **519768** Cal A/B Launcher Project Address: NM

### Sheldon Hitckcock:

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) 519768. 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. 519768 will be filed for 60 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,

<del>the</del>

Julian Martinez Project Manager Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



## Sample Cross Reference 519768



## Talon LPE, Artesia, NM

Cal A/B Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1	S	11-18-15 12:56		519768-001
C-2	S	11-18-15 12:58		519768-002
C-3	S	11-18-15 13:00		519768-003
C-5	S	11-18-15 13:06		519768-004
C-6	S	11-18-15 13:03		519768-005
BC-1	S	11-18-15 13:16		519768-006
BC-2	S	11-18-15 13:18		519768-007
BC-3	S	11-18-15 13:24		519768-008
BC-4	S	11-18-15 13:26		519768-009

.



CASE NARRATIVE

Client Name: Talon LPE Project Name: Cal A/B Launcher



Project ID: Work Order Number(s): 519768 Report Date: 27-NOV-15 Date Received: 11/19/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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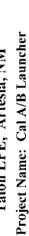


ΜN

Project Location:

Contact:

## Certificate of Analysis Summary 519768 Taton LPE, Artesia, NM





Date Received in Lab: Thu Nov-19-15 08:05 am Report Date: 27-NOV-15 Project Manager: Kelsey Brooks

_	Lab Id:	519768-001	519768-002	519768-003	519768-004	519768-005	519768-006
Australia Documentad	Field Id:	۲- ۲	C-2	C-3	C-5	C-6	BC-1
naisan hay sisting	Depth:			<u> </u>			
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-18-15 12:56	Nov-18-15 12:58	Nov-18-15 13:00	Nov-18-15 13:06	Nov-18-15 13:03	Nov-18-15 13:16
TCLP Mercury by SW 7470A	Extracted:	Nov-25-15 07:45	Nov-25-15 07:45	Nov-25-15 07:45	Nov-25-15 07:45	Nov-25-15 07:45	Nov-25-15 07:45
SUB: T104704295-TX	Analyzed:	Nov-25-15 11:16	Nov-25-15 11:22	Nov-25-15 11:24	Nov-25-15 11:26	Nov-25-15 11:32	Nov-25-15 11:34
	Units/RL:	mg/L R	RL mg/L RL	mg/L RL	mg/L RL	mg/L RL	mg/L RL
Mercury		001000'0 CIN	001000'0 CIN 001	0 ND 0.000100	001000 ON	ND 0.000100	ND 0.000100
TCLP Metals per ICP by SW846 6010B	Extracted:	Nov-25-15 05:45	Nov-25-15 05:45	Nov-25-15 05:45	Nov-25-15 05:45	Nov-25-15 05:45	Nov-25-15 05:45
SUB: T104704295-TX	Analyzed:	Nov-25-15 10:53	Nov-25-15 11:11	Nov-25-15 11:23	Nov-25-15 11:27	Nov-25-15 11:30	Nov-25-15 11:33
	Units/RL:	mg/L R	RL mg/L RL	, mg/L RL	mg/L RL	mg/L RL	mg/L RL
Arsenic		ND 0.0250	250 ND 0.0250	0 ND 0.0250	ND 0.0250	ND 0.0250	ND 0.0250
Barium		0.364 0.0250	250 0.242 0.0250	0 0.308 0.0250	0.366 0.0250	0.0623 0.0250	0.269 0.0250
Cadmium		ND 0.0125	125 ND 0.0125	5 ND 0.0125	ND 0.0125	ND 0.0125	ND 0.0125
Chromium		ND 0.0125	125 ND 0.0125	5 ND 0.0125	ND 0.0125	ND 0.0125	ND 0.0125
Lead		ND 0.0300	300 ND 0.0300	0 ND 0.0300	ND 0.0300	ND 0.0300	ND 0.0300
Selenium		ND 0.0250	250 ND 0.0250	0 ND 0.0250	ND 0.0250	ND 0.0250	ND 0.0250
Silver		ND 0.0100	0010'0 CIN 00100	0010'0 CIN 0'0100	ND 0.0100	ND 0.0100	0010'0 CIN

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

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

Julian Martinez Project Manager

Final 1.000



ΜN

Project Location:

Contact:

## **Certificate of Analysis Summary 519768** Project Name: Cal A/B Launcher Talon LPE, Artesia, NM



Date Received in Lab: Thu Nov-19-15 08:05 am Project Manager: Kelsey Brooks Report Date: 27-NOV-15

	Lab Id:	519768-001	519768-002	519768-003	519768-004	519768-005	519768-006
	Field 1d:	- -	C-2	C-3	C-5	C-6	BC-1
Analysis Requested	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-18-15 12:56	Nov-18-15 12:58	Nov-18-15 13:00	Nov-18-15 13:06	Nov-18-15 13:03	Nov-18-15 13:16
BTEX by EPA 8021B	Extracted:	Nov-23-15 15:00	Nov-23-15 15:00	Nov-23-15 15:00	Nov-23-15 15:00	Nov-23-15 15:00	Nov-23-15 15:00
	Analyzed:	Nov-23-15 17:46	Nov-23-15 18:03	Nav-24-15 08:59	Nov-24-15 10:54	Nov-23-15 18:52	Nov-23-15 19:09
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		10100'0 GN	00100'0 CIN	066000'0 CIN	ND 0.00167	10100'0 CN	ND 0.000996
Toluene		ND 0.00202	ND 0.00200	86100.0 CIN	ND 0.00333	ND 0.00201	66100'0 CIN
Ethylbenzene		10100'0 CIN	ND 0.00100	066000'0 CIN	ND 0.00167	ND 0.00101	ND 0.000996
m,p-Xylenes		20200.0 CIN	ND 0.00200	86100:0 CIN	ND 0.00333	ND 0.00201	ND 0.00199
o-Xylene		10100-0 UN	ND 0.00100	066000.0 UN	ND 0.00167	10100'0 QN	ND 0.000996
Total Xylencs		10100-0 CIN	00100'0 QN	ND 0.000990	ND 0.00167	ND 0.00101	ND 0.000996
Total BTEX	-	ND 0.00101	00100 <sup>-0</sup> 0.00100	ND 0.000990	ND 0.00167	ND 0.00101	966000'0 QN
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-20-15 12:00	Nov-20-15 12:00	Nov-20-15 12:00	Nov-20-15 12:00	Nov-20-15 12.00	Nov-20-15 12:00
	Analyzed:	Nov-23-15 13:50	Nov-23-15 14:13	Nov-23-15 14:58	Nov-23-15 17:38	Nov-23-15 15:44	Nov-23-15 18:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3.74 2.00	10.4 10.0	15.1 10.0	3.25 2.00	ND 2.00	2.66 2.00
TPH by SW 8015B	Extracted:	Nov-20-15 10:00	Nov-20-15 10:00	Nov-20-15 10:00	Nov-20-15 10:00	Nov-20-15 10:00	Nov-20-15 10:00
	Analyzed:	Nov-23-15 13:07	Nov-23-15 13:43	Nov-23-15 14:21	Nov-23-15 14:53	Nov-23-15 18:12	Nov-23-15 18:48
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		NI) 15.0	ND 15.0	ND 14.9	ND 15.0	ND 15.0	ND 15.0
C10-C28 Diesel Range Hydrocarbons		0.21 CIN	ND 15.0	ND 14.9	ND 15.0	ND 15.0	ND 15.0
C28-C35 Oil Range Hydrocarbons		ND 15.0	ND 15.0	ND 14.9	ND 15.0	ND 15.0	ND 15.0
Total TPH		ND 15.0	ND 15.0	ND 14.9	0.21 CIN	ND 15.0	ND 15.0

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

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Julian Martinez Project Manager



MN

Project Location:

Contact:

## Certificate of Analysis Summary 519768 Talon LPE, Artesia, NM



Project Name: Cal A/B Launcher

Date Received in Lab: Thu Nov-19-15 08:05 am Project Manager: Kelscy Brooks Report Date: 27-NOV-15

			ļ				000	
	:v1 qv7	/00-80/610		800-80/61c	- 201	600-807 kTc	- 600-	
Analinia Damandad	Field 1d:	BC-2		BC-3		BC-4		
naisanhay sisting	Depth:							
	Matrix:	SOIL		SOIL		SOIL	1	
	Sampled:	Nov-18-15 13:18	3:18	Nov-18-15 13:24	13:24	Nov-18-15 13:26	5 13:26	
TCLP Mercury by SW 7470A	Extracted:	Nov-25-15 07:45	7:45	Nov-25-15 07:45	7:45	Nov-25-15 07:45	07:45	
SUB: T104704295-TX	Analyzed:	Nov-25-15 11:36	1:36	Nov-25-15 11:39	11:39	Nov-25-15 11:41	11:41	
	Units/RL:	mg/l, RL	RL	mg/L	RL	mg/L	mg/L RL	
Mercury		ND 0.000100	001000	- ON	ND 0.000100	CIN	ND 0.000100	
TCLP Metals per ICP by SW846 6010B	Extracted:	Nov-25-15 05:45	5:45	Nov-25-15 05:45	)5:45	Nov-25-15 05:45	05:45	
SUB: T104704295-TX	Analyzed:	Nov-25-15 11:36	1:36	Nov-25-15 11:40	11:40	Nov-25-15 11:43	11:43	
	Units/RL:	mg/L RL	RL	mg/L	RL	mg/L	RL	
Arsenic	1	QN	0.0250	CIN	0.0250	<u>CIN</u>	0.0250	
Barium	1	0.279	0.0250	0.214	0.0250	1.36	0.0250	
Cadmium		QN	0.0125	QN	0.0125	QN	0.0125	
Chromium		QN	0.0125	QN	0.0125	DN	0.0125	
Lead		QN	0.0300	QN	0.0300	CIN	0.0300	
Selenium		QN	0.0250	QN	0.0250	CIN	0.0250	
Silver		QN	0.0100	QN	0.0100	QN	0010'0	

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Julian Martinez Project Manager

Final 1.000



ΜN

Project Location:

Contact:

## Certificate of Analysis Summary 519768 Talon LPE, Artesia, NM

Project Name: Cal A/B Launcher



Date Received in Lab: Thu Nov-19-15 08:05 am Project Manager: Kelsey Brooks Report Date: 27-NOV-15

	Lab Id:	519768-007	519768-008	519768-009	
A sector Descented	Field 1d:	BC-2	BC-3	BC-4	
naisanhay sistinuy	Depth:				
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Nov-18-15 13:18	Nov-18-15 13:24	Nov-18-15 13:26	
BTEX by EPA 8021B	Extracted:	Nov-23-15 15:00	Nov-23-15 15:00	Nov-23-15 15:00	
	Analyzed:	Nov-23-15 19:25	Nov-23-15 19:42	Nov-23-15 19:57	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		00100'0 CIN	ND 0.00101	ND 0.000994	
Toluene		ND 0.00201	ND 0.00201	0:00199 VID 0:00199	
Ethylbenzene		00100'0 QN	ND 0.00101	ND 0.000994	
m,p-Xylenes		ND 0.00201	ND 0.00201	ND 0.00199	
o-Xylene		ND 0.00100	10100'0 CIN	ND 0.000994	
Total Xylenes		ND 0.00100	10100'0 CIN	ND 0.000994	
Total BTEX		00100'0 CIN	10100'0 ON	ND 0.000994	
Inorganic Anions by EPA 300/300.1	Extracted:	Nov-20-15 12:00	Nov-20-15 12:00	Nov-20-15 12:00	
	Analyzed:	Nov-23-15 18:23	Nov-25-15 12:32	Nov-21-15 09:55	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		ND 2.00	2.58 2.00	ND 2.00	
TPH by SW 8015B	Extracted:	Nov-20-15 10:00	Nov-20-15 10:00	Nov-20-15 10:00	
	Analyzed:	Nov-23-15 19:22	Nov-23-15 19:55	Nov-23-15 20:35	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		ND 14.9	ND 14.9	ND 14.9	
C10-C28 Diesel Range Hydrocarbons		NI) 14.9	ND 14.9	ND 14.9	
C28-C35 Oil Range Hydrocarbons		NI) 14.9	ND 14.9	ND 14.9	
Total TPH		ND 14.9	ND 14.9	ND 14.9	

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Julian Martinez Project Manager

Final 1.000



## **Flagging Criteria**



- 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.
- The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. D 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
- LOD Limit of Detection MDL Method Detection Limit SDL Sample Detection Limit
- LOQ Limit of Quantitation PQL Practical Quantitation Limit MQL Method Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



## Form 2 - Surrogate Recoveries

Project Name: Cal A/B Launcher

Work Ord Lab Batch #:		Sample: 519768-001 / SMP	Batch	Project ID h: 1 Matrix			
Jnits:	mg/kg	Date Analyzed: 11/23/15 13:07	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctane			102	99.8	102	70-135	
o-Terphenyl			45.4	49.9	91	70-135	
Lab Batch #:	982033	Sample: 519768-002 / SMP	Batch	n: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 13:43	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R  D]	Control Limits %R	Flags
1-Chlorooctane		Analytes	100	00.0	· · ·	70-135	n
o-Terphenyl			100	99.9	100	70-135	
Lab Batch #:	082033	Sample: 519768-003 / SMP	44.2 Batch	50.0 1: 1 Matrix		/0-135	
Lao Daten #: Units:	mg/kg	Date Analyzed: 11/23/15 14:21		RROGATE R		TUDV	
	ТРН	I by SW 8015B	Amount Found JAJ	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes	07.0				
1-Chlorooctane	:		97.8	99.5	98	70-135	
o-Terphenyl Lab Batch #:	092022	Sample: 519768-004 / SMP	41.9 Batch	49.8 1; 1 Matrix		70-135	
		•					
Units:	mg/kg	Date Analyzed: 11/23/15 14:53	SU	RROGATE R	ECOVERY S	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R 1D1	Control Limits %R	Flags
	_	Analytes		100		70 126	
1-Chlorooctane o-Terphenyl			113	100	113	70-135 70-135	
Lab Batch #:	982003	Sample: 519768-001 / SMP	49.4 Batch	50.0 1; 1 Matrix	99 • Soil	10-135	
Units:	mg/kg	Date Analyzed: 11/23/15 17:46				TUNY	
0.111.51			50	RROGATE R	ECOVERT 3		
	BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1,4-Difluorobe	nzene		0.0290	0.0300	97	80-120	
4-Bromofluoro	benzene		0.0357	0.0300	119	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

.

Surrogate Recovery [D] = 100 \* A / B All results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

Work Or Lab Batch :	ders: \$1976 #: 982003	8, Sample: 519768-002 / SMP	Batel	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/23/15 18:03	SU	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0296	0.0300	99	80-120	
4-Bromofluc			0.0359	0.0300	120	80-120	
Lab Batch	#: 982033	Sample: 519768-005 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 18:12	SU	RROGATE R	ECOVERY	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount JBJ	Recovery %R [D]	Control Limits %R	Flags
1.011		Analytes				50.10.5	
1-Chloroocta	ane		96.0	99.8	96	70-135	
o-Terphenyl			45.0	49.9	90	70-135	
Lab Batch		Sample: 519768-006 / SMP	Batci				
Units:	mg/kg	Date Analyzed: 11/23/15 18:48	SU	RROGATE R	ECOVERY S	STUDY	
	TPE	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ane		98.8	99.8	99	70-135	
o-Terphenyl			46.4	49.9	93	70-135	
Lab Batch	#: 982003	Sample: 519768-005 / SMP	Batch	n: i Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 11/23/15 18:52	SU	RROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
-		Analytes			[D]		
1,4-Difluoro	benzene		0.0305	0.0300	102	80-120	
4-Bromotluc	orobenzene		0.0358	0.0300	119	80-120	
Lab Batch	#: 982003	Sample: 519768-006 / SMP	Batel	h: 1 Matrix	: Soil		<u></u>
Units:	mg/kg	Date Analyzed: 11/23/15 19:09	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount ]B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0288	0.0300	96	80-120	
4-Bromofluc	orobenzene		0.0342	0.0300	114	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

	<b>ders : 5</b> 1976 #: 982033	8, Sample: 519768-007 / SMP	Batch	Project ID			
Units:	mg/kg	Date Analyzed: 11/23/15 19:22	SU	RROGATE R	RECOVERY	STUDY	
	TPH	l by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	lane		97.6	99.5	98	70-135	
o-Terpheny	1		46.2	49.8	93	70-135	
Lab Batch	#: 982003	Sample: 519768-007 / SMP	Batch	: 1 Matrix	r: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 19:25	SUI	RROGATE R	RECOVERY	STUDY	
	BTEX	K by EPA 8021B	Amount Found ]A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4.0		Analytes					
1,4-Difiuor			0.0244	0.0300	81	80-120	•
4-Bromoflu		C	0.0260	0.0300	87	80-120	
	#: 982003	Sample: 519768-008 / SMP	Batch			_	
Units:	mg/kg	Date Analyzed: 11/23/15 19:42	SU	RROGATE R	RECOVERY	STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0303	0.0300	101	80-120	
4-Bromoflu	orobenzene		0.0354	0.0300	118	80-120	
Lab Batch	#: 982033	Sample: 519768-008 / SMP	Batch	: 1 Matrix	c: Soil	3	
Units:	mg/kg	Date Analyzed: 11/23/15 19:55	SUI	RROGATE R	RECOVERY	STUDY	
	ТРН	L by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	iane		121	99.6	121	70-135	
o-Terpheny			57.4	49.8	115	70-135	
Lab Batch	#: 982003	Sample: 519768-009 / SMP	Batch	: 1 Matrix	c: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 19:57	SUI	RROGATE R	RECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor			0.0308	0.0300	103	80-120	
4-Bromotlu	orobenzene		0.0359	0.0300	120	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B All results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

	<b>ders : 5</b> 1976 #: 982033	58, Sample: 519768-009 / SMP	Batch	Project II : 1 Matri	<b>):</b> x: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 20:35	SUI	RROGATE I	RECOVERY	STUDY	
	TPI	H by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes					
1-Chlorooct	ane		98.2	99.5	99	70-135	
o-Terpheny			46.2	49.8	93	70-135	
Lab Batch	#: 982003	Sample: 519768-003 / SMP	Batch	: 1 Matri:	x: Soil		
Units:	mg/kg	Date Analyzed: 11/24/15 08:59	SUI	RROGATE I	RECOVERY	STUDY	
	BTE.	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro		Analytes	0.0344	0.0300	115	80-120	
4-Bromotlu			0.0344	0.0300	95	80-120	
	#: 982003	Sample: 519768-004 / SMP	Batch			00-120	<u> </u>
Lad Daten Units:	mg/kg	•					
onns:	ш <u>қ</u> , қ <u>ғ</u>	Date Analyzed: 11/24/15 10:54	SUI	KNUGATE I	RECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluore	benzene		0.0346	0.0300	115	80-120	
4-Bromoflu			0.0331	0.0300	110	80-120	
Lab Batch		Sample: 701239-1-BLK / BL			x: Solid	80-120	
Units:	mg/kg	Date Analyzed: 11/20/15 11:33				2774 UN X7	
		Date Analyzed. 11/20/15/11.55	501	KRUGATE I	RECOVERY		
	TPI	H by SW 8015B Analytes	Amount . Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooct	ane		100	100	100	70-135	
o-Terpheny			43.7	50.0	87	70-135	
Lab Batch	#: 982003	Sample: 701277-1-BLK / BL	K Batch	: 1 Matri	x: Solid		
Units:	mg/kg	Date Analyzed: 11/23/15 17:29	SUI	RROGATE H	RECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1,4-Difluor	obenzene		0.0308	0.0300	103	80-120	<u> </u>
4-Bromoflu			0.0359	0.0300		<u> </u>	<u> </u>

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

Testen	malia	Sample: 701239-1-BKS / B					
Units:	mg/kg	Date Analyzed: 11/20/15 12:08	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ine		119	100	119	70-135	
o-Terphenyl			46.6	50.0	93	70-135	
Lab Batch #	<b>#:</b> 982003	Sample: 701277-1-BKS / B	KS Batel	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/23/15 16:38	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R 1DI	Control Limits %R	Flags
1,4-Difluoro	henzene	Analytes	0.0253	0.0300	84	80-120	
4-Bromofluo			0.0205	0.0300	102	80-120	
Lab Batch #		Sample: 701239-1-BSD / B			_	00-120	<u> </u>
Units:	mg/kg	Date Analyzed: 11/20/15 12:47			_		
		Date Analyzed. 11/20/15 12:47	su	RROGATE R	LUVERY S		
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chloroocta	ine		116	100	116	70-135	
o-Terphenyl			- 44.4	50.0	89	70-135	
Lab Batch #		Sample: 701277-1-BSD / B			_		
Units:	mg/kg	Date Analyzed: 11/23/15 16:54	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene	Analytes	0.0249	0.0300	83	80-120	
4-Bromofluo			0.0249	0.0300	104	80-120	
Lab Batch #		Sample: 519769-001 S / MS				00 120	
Units:	mg/kg	Date Analyzed: 11/21/15 09:15 [		RROGATE R		STUDY	
		I by SW 8015B	Amount Found	True Amount	Recovery	Control Limits	Flags
		Analytes	[A]	[B]	%R  D]	%R	
	<u> </u>		105	99.8	105	70-135	
1-Chloroocta	ine		10.5				

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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Project Name: Cal A/B Launcher

Work Orders : 51976 Lab Batch #: 982003	8, Sample: 519768-001 S / M	S Bate	Project ID h: 1 Matrix			
U <b>nits:</b> mg/kg	Date Analyzed: 11/23/15 20:31	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0326	0.0300	109	80-120	
4-Bromofluorobenzene	······································	0.0320	0.0300	107	80-120	
Lab Batch #: 982033	Sample: 519769-001 SD / I	MSD Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 11/21/15 09:54	SU	RROGATE R	ECOVERY	STUDY	
TPF	l by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		96.7	99.9	97	70-135	
o-Terphenyl		35.1	50.0	70	70-135	
ab Batch #: 982003	Sample: 519768-001 SD / 1	MSD Bate	h: 1 Matrix	: Soil	L	
Units: mg/kg	Date Analyzed: 11/23/15 20:47	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	•	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene		0.0345	0.0300	115	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

.

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

	BORATORIES
5	

## **BS / BSD Recoveries**



Date Prepared: 11/23/2015

Batch #: 1

Sample: 701277-1-BKS

Lub Batch ID: 982003

Work Order #: 519768

SYG

Analyst:

Project ID:

Date Analyzed: 11/23/2015 Matrix: Solid

Units:	mg/kg	- <b>1</b>	BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	<b>STANK S</b>	PIKE DUPI	ICATE	RECOVI	ERY STUD	λ	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
An	Analytes		B		ſai	(31)	Result [F]	<u>5</u>				
Benzene	ene	<0.00100	0.100	0.0909	16	0.100	0:0930	93	2	70-130	35	
Toluene	the second second second second second second second second second second second second second second second se	<0.00200	0.100	0.0907	91	0.100	0.0949	95	5	0£1-02	35	
Ethyl	Ethylbenzene	<0.00100	0.100	0.0951	95	0.100	0.0994	66	4	71-129	35	
√-d'ш	m,p-Xylenes	<0.00200	0.200	0.197	66	0.201	0.208	103	5	70-135	35	
o-Xylene	lene	<0.00100	0.100	0.0931	93	0.100	0.0981	98	5	71-133	35	
Analyst:	MNR	Da	ite Prepar	Date Prepared: 11/20/2015	5			Date A	nalyzed: 1	Date Analyzed: 11/21/2015		
Lab Batch	Lab Batch ID: 981896 Sample: 701200-1-BKS	KS	Batch #:	i#: 1					Matrix: Solid	solid		
Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / I	S YNV S	PIKE DUPI	<b>JCATE</b>	RECOVI	ERY STUD	Y	
Inc	Inorganic Anions by EPA 300/300.1	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	N	B	Result [C]	%R [D]	[E]	Duplicate Result [F]	%r [6]	%	%К	%RPD	>

20

90-110

100

49.9

50.0

101

50.4

50.0

2.00

Chloride

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes





**BS / BSD Recoveries** 



Project Name: Cal A/B Launcher

**BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Analyzed: 11/25/2015 Project ID: Blk. Spk Blank Blank Spike Date Prepared: 11/25/2015 Blank Batch #: 1 Spike Blank Sample: 701344-1-BKS TCLP Mercury by SW 7470A Work Order #: 519768 Lab Batch ID: 982154 mg/L DAT Analyst: Units:

Matrix: Water

TCLP Mercury by SW 7470A	SW 7470A	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	BIK. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		[V]	B	Result [C]	%R [0]	[3]	Duplicate Result [F]	%R  G	%	%К	%RPD	)
Mercury		<0.000100	0 00500	0.00508	102	0.00500	0.00513	103	-	85-115	20	
Analyst: DAT		Da	te Prepar	Date Prepared: 11/25/2015	5			Date A	nalyzed: 1	Date Analyzed: 11/25/2015		
Lab Batch ID: 982158	Sample: 701333-1-BKS	BKS	Batch #:	1 #: 1					Matrix: Water	Water		
· Units: mg/L			BLAN	BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / 1	3LANK 5	PIKE DUPI	<b>ICATE</b>	RECOVI	ERY STUI	V	
TCLP Metals per ICP by SW846 6010B	y SW846 6010B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes		[Y]	[B]	Result [C]	88 [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	D
Arsenic		<0.0250	2.50	2.46	98	2.50	2.47	66	0	85-115	20	
Barium		<0.0250	2.50	2.31	92	2.50	2 33	93		85-115	20	

20 20 20 20

85-115

 $\sim$ 

92

2.29

2.50

6

103

2.58

2.50

102

2.56 2.25

2.23

<0.0300

<0.0100

<0.0250

20

85-115 85-115 85-115 85-115

0

93 94 89

2.32 2.34

2.50

93 91 89

2.32

2.50 2 50 2.50 2.50 2.50

<0.0125

<0.0125

Chromium Cadmium

Selenium

Lead

Silver

2.50 2.50

2.28

 $\circ$ m

2.23

Relative Percent Difference RPD = 200\*I(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final 1.000



## **BS / BSD Recoveries**



Project Name: Cal A/B Launcher

Work Order #: 519768							Project ID:		
Analyst: PJB		Date	Date Prepared: 11/20/2015	20/2015			Date Analyzed: 11/20/2015	1/20/2015	
Lub Batch ID: 982033	Sample: 701239-1-BKS		Batch #: 1				Matrix: Solid	olid	
Units: mg/kg			BLANK /BLA	NK SPIKE /	<b>BLANK S</b>	PIKE DUPLI	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	RY STUD	Y
			- 14		:				

TPH by SW 8015B	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	[V]		Result	%R		Duplicate	%R		%R	%RPD	
Analytes		(B)	<u>5</u>		[3]	Result [F]	<u></u>				
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	217	98	1000	0001	100	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	1120	112	1000	1120	112	0	70-135	35	
								Ĭ			

Relative Percent Difference RPD = 200\*((C-F)/(C+F) Blank Spike Recovery {D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL, and Validated for QC Purposes



## Form 3 - MS Recoveries

Date Prepared: 11/20/2015

Batch #: 1



Project Name: Cal A/B Launcher

 Work Order #: 519768

 Lab Batch #:
 981896

 Date Analyzed:
 11/21/2015

 QC- Sample ID:
 519702-001 S

 Renorting Units:
 mg/kg

.

### Project ID: Analyst: MNR

Matrix: Soil

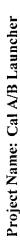
Reporting Units: mg/kg	MAT	RIX / MA	<b>TRIX SPIKE</b>	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	138	1000	1140	100	80-120	
ab Batch #: 981896			•			
Date Analyzed: 11/23/2015	Date Prepared: 11/2	20/2015	А	nalyst: N	/INR	
<b>QC- Sample ID:</b> 519768-002 S	Batch #: 1		Г	Matrix: S	loil	
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	10.4	250	263	101	80-120	

Matrix Spike Percent Recovery  $[D] = 100^{+}(C-A)/B$ Relative Percent Difference  $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



## Form 3 - MS / MSD Recoveries





519768	982003	11/23/2015	mg/kg	
Work Order # :	Lab Batch ID:	Date Analyzed:	Reporting Units:	

Matrix: Soil Project ID: Batch #: 1

> QC- Sample ID: 519768-001 S Date Prepared: 11/23/2015

Analyst: SYG

•							1				
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result		Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	0	8% [0]	Added [E]	Result [F]	%K [G]	%	%К	%RPD	
Benzene	<0.00101	0.101	0.0810	80	0,101	0.0892	88	10	70-130	35	
Toluene	<0.00202	0.101	0.0815	81	0.101	0.0873	86	7	70-130	35	
Ethylbenzene	<0.00101	0.101	0.0815	81	0.101	0.0906	60	11	71-129	35	
m,p-Xylenes	<0.00202	0.202	0.166	82	0.202	0.187	93	12	70-135	35	
o-Xylenc	<0.00101	0.101	0.0815	81	0.101	0.0907	60	Ξ	71-133	35	
Lab Batch ID: 982154	QC- Sample ID:	519768-001 S	-001 S	Ba	Batch #:	I Matrix:	x: Soil	j			
Date Analyzed: 11/25/2015	Date Prepared: 11/25/2015	11/25/2	015	νu	Analyst: DAT	AT TA					
Reporting Units: mg/L		2	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MAT	RIX SPII	KE DUPLICA	TE REC	OVERY :	STUDY		
TCLP Mercury by SW 7470A	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]		%к [D]	Added [E]	Result [F]	1G  G	%	%К	%RPD	

20

75-125

0

<u>0</u>

0.00507

0.00500

101

0.00507

0.00500

<0.000100

Mercury

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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# Form 3 - MS / MSD Recoveries



Project Name: Cal A/B Launcher

11/25/2015 519768 982158 . Thorn Work Order # : **Reporting Units:** Date Analyzed: Lab Batch ID:

Analyst: DAT Batch #: QC-Sample ID: 519768-001 S

Matrix: Soil -

Project ID:

Date Prepared: 11/25/2015

MATBIX SPIKE / MATBIX SPIKE DUPLICATE DECOVERY STUDY

Keporting Units: mg/L		Z	ATRIX SPIK	E/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE REC	<b>DVERY</b>	STUDY		
TCLP Metals per ICP by SW846 6010B	Parent Sample	Spike	Spiked Sample Result	<b>x x</b>	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	<u> </u>	%R [0]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Arsenic	<0.0250	2.50	2.43	76	2.50	2.42	16	0	75-125	20	
Barium	0.364	2.50	2.54	87	2.50	2.56	88	ł	75-125	20	
Cadmium	<0.0125	2.50	2.10	84	2.50	2.11	84	0	75-125	20	
Chromium	<0.0125	2.50	2.29	92	2.50	2.29	92	0	75-125	20	
Lead	<0.0300	2.50	2.07	83	2.50	2.07	83	0	75-125	20	
Selenium	<0.0250	2.50	2.55	102	2.50	2.54	102	0	75-125	20	
Silver	<0.0100	2.50	2.31	92	2.50	2.33	93	1	75-125	20	
Lab Batch ID: 982033	QC-Sample ID: 519769-001 S	519769	-001 S	Ba	Batch #:	I Matrix: Soil	c: Soil				
Date Analyzed: 11/21/2015	Date Prepared: 11/20/2015	11/20/2	015	An	Analyst: PJB	JB					
Reporting Units: mg/kg		Σ	ATRIX SPIK	E/MAT	RIX SPI	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	OVERY:	STUDY		
TPH by SW 8015B	Parent Sample	Spike	Spiked Sample Result	s s	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesult [A]	Added [B]		ж [0]	Added [E]	Result [F]	8 [G]	%	8% 8	%RPD	
C6-C10 Gasoline Range Hydrocarbons	<15.0	866	995	100	666	929	93	7	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	866	1050	105	666	986	66	9	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C•A)B Relative Percent Difference RPD = 200\*((C+F)(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Project Name-Location			NCO INCO	Į –		P a	12		f	TAT: It is tw	ASAP 5h bicellv 5-7	5.5		24h Day	48h 3 vs for 1	3d Sd	7d	P01	21d SI	andard Javs fo	I TAT (	104 21d Standard TAT is project specific. 10+ Working days for level 111 and IV data.	ct spec IV dats	iji Gilici			Т
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3 5)				Ť	6)						Π				Ĕ	areby r	equeste	d. Rusi	Charg	jes and	Callect	ion Fee:	s are pi	re-appi	hereby requested. Rush Charges and Collection Fees are pre-approved if needed.	pepeq	-ri
Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Cont. Size: 4oz (4), Boz (8), 32oz (32), 40mi VOA (40), 1L (1), 500mi (5), Te	HCI pH<2 (H), H 32oz (32), 40n	2SO4 pH<2 ij VOA (40),	(S), + 1L (1	HN03	Ha Ha Ma Ha	2 (N), 5), Te(	Asbc Acid&NaOH ( <b>A</b> ), ZnAc&Na( dlar Bag ( <b>B</b> ), Various ( <b>V</b> ), Other	\cid& g (B)	laOH Varic	(A), Zi US (V)	nAc&N	er er	(Z), (C	×'loo'	4C) ((	S.C.	Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), O diar Bag (B), Various (V), Other Cont. Type: Glass Amb (A),	),See L 3: Gla	abel ( ss Am	L), О b (A),	Other (O) A). Glass	Clear (	ін С	astic (I	Clear (C), Plastic (P), Various (V)	(V) sho	
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	Solid (S), Water	(W), Liquid	Ĵ					Con	imitte	a to	Exce	vllenc	ni ec	Serv	ice a	D Pu	Committed to Excellence in Service and Quality	_				•		WMM	www.xenco.com	ncom.	5
	Notice: Signature of this document and relinguishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xanco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.	e of this docun ind assigns un	Terrt ar der Xe	nd relli mco's	nquish standa	ment o vrd tem	f these is and c	sample conditio	ins of s	titutes ; ervice	a valid unless	purcha	isé ord: Jsly ney	er from gotiate	d unde	compai r a fully	ny to Xe / execut	nco Lab	oratorie t contra	is and it ct.	s affillat	'se					

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## **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11/19/2015 08:05:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 519768	Temperature Measuring device used :
Sample Rece	pt Checklist Comments
#1 *Temperature of cooler(s)?	6
#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 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes

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

Analyst:

analysts.

PH Device/Lot#:

Checklist completed by: Carley Owens

#17 Sufficient sample amount for indicated test(s)?

#20 VOC samples have zero headspace (less than 1/4 inch bubble)?

#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for

samples for the analysis of HEM or HEM-SGT which are verified by the

#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?

#18 All samples received within hold time?

#19 Subcontract of sample(s)?

Date: 11/19/2015

Yes

Yes

No

N/A

N/A

N/A

Checklist reviewed by: Huns Hoah Kelsev Brooks

Date: 11/19/2015

## Analytical Report 519769

for

**Talon LPE** 

**Project Manager: Sheldon Hitckcock** 

Cal A/B Launcher

### 25-NOV-15

Collected By: Client





## 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

> Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)





25-NOV-15 Project Manager: Sheldon Hitckcock Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 519769 Cal A/B Launcher Project Address: NM

### Sheldon Hitckcock:

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) 519769. 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. 519769 will be filed for 60 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,

Julian Martinez Project Manager Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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## Sample Cross Reference 519769



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## Talon LPE, Artesia, NM

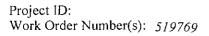
Cal A/B Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	11-18-15 13:37	- 0 ft	519769-001



CASE NARRATIVE

Client Name: Talon LPE Project Name: Cal A/B Launcher



 Report Date:
 25-NOV-15

 Date Received:
 11/19/2015

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

4

None







MN

Project Location:

Contact:

## Certificate of Analysis Summary 519769 Talon LPE, Artesia, NM

Project Name: Cal A/B Launcher

•



Date Received in Lab: Thu Nov-19-15 08:05 am Project Manager: Kelsey Brooks Report Date: 25-NOV-15

	Lab 1d:	14: 519769-001	
Andrain Damarad	Field Id:	Itt: SP-1	
naisanhay sistimut	Depth:	11tr: -0 ft	
	Matrix:	ric SOIL SOIL	
	Sampled:	ed: Nov-18-15 13:37	
TCLP Mercury by SW 7470A	Extracted:	edi: Nov-25-15 07:45	
SUB: T104704295-TX	Analyzed:		
	Units/RL:		Ĭ
Mercury		ND 0.000100.0 UN	
TCLP Metals per ICP by SW846 6010B	Extracted:		
SUB: T104704295-TX	Analyzed:		
	Umits/RL:		
Arsenic		ND 0.0250	
Barium		0.399 0.0250	
Cadmium		ND 0.0125	
Chromium		ND 0.0125	
Lead		ND 0.0300	
Selenium		ND 0.0250	
Silver		ND 0.0100	

This analytical report, and the eature data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this mainlytical tepen represent the best jugnent 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.

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Julian Martinez Project Manager

Final 1.000



ΜN

Project Location:

Contact:

## Certificate of Analysis Summary 519769 Talon LPE, Artesia, NM

Project Name: Cal A/B Launcher



Date Received in Lab: Thu Nov-19-15 08:05 am Project Manager: Kelsey Brooks Report Date: 25-NOV-15

Analysis Requested     Lab Id: Pepth: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: Matrix: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed: N Analyzed N Analyzed N Analyzed N Analyzed N Analyzed N Analyzed N Analyzed N Analyze				
Analysis Requested     Field Id: Depth: Matrix:       BTEX by EPA 8021B     Extracted: Analyzed: Units/RL:       BTEX by EPA 8021B     Extracted: Analyzed: Units/RL:       BTEX by EPA 8021B     Extracted: Analyzed: Units/RL:       Analyzed:     Analyzed: Units/RL:       Analyzed:     Analyzed: Units/RL:       Analyzed:     Analyzed: Units/RL:       Sample Hydrocarbons     Extracted: Units/RL:       Soline Range Hydrocarbons     Units/RL:       Dil Range Hydrocarbons     Dil Range Hydrocarbons		Lab 1d:	519769-001	
Interpose Andreased     Depth:       BTEX by EPA 8021B     Extracted:       BTEX by EPA 8021B     Extracted:       Analyzed:     Units/RL:       Units/RL:     Units/RL:       Cos     Analyzed:       anic Anions by EPA 300/300.1     Extracted:       Analyzed:     Units/RL:       Analyzed:     Analyzed:       Sampled:     Units/RL:       Cos     Units/RL:       Analyzed:     Units/RL:       Samic Anions by EPA 300/300.1     Extracted:       Analyzed:     Units/RL:       Sanic Anions by EPA 300/300.1     Extracted:       Analyzed:     Units/RL:       Discel Range Hydrocarbons     Units/RL:       Dil Range Hydrocarbons     Dints/RL:	A maturic Danuadad	Field 1d:	SP-1	
BTEX by EPA 8021B Extracted Sampled: Sampled: Units/RL: Units/RL: Units/RL: Units/RL: Analyzed: Analyzed: Units/RL: Analyzed: Units/RL: Analyzed: Units/RL: Sampled: Analyzed: Units/RL: Sampled: Analyzed: Units/RL: Units/RL: Di Range Hydrocarbons Si Range Hydrocarbons	naisanhau sistimuv	Depth:		
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BTEX by EPA 8021B Extracted: Analyzed: Units/RL: Cos Cos Cos Cos Cos Cos Cos Cos Cos Cos		Sampled:		
Analyzed:     Units/RL:       Dec     Units/RL:       cs     Units/RL:       cs     Analyzed:       cs     Intes/RL:       Analyzed:     Intes/RL:       Analyzed:     Analyzed:       Intes     Analyzed:       Analyzed:     Units/RL:       Saoline Range Hydrocarbons     Units/RL:       Dil Range Hydrocarbons     Units/RL:       Dil Range Hydrocarbons     Units/RL:	BTEX by EPA 8021B	Extracted:		
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rne cs cs cs cs cs cs cs cs cs cs cs cs cs		Units/RL:	mg/kg RL	
nib         0.0         0.0           cs         NID         0.0           nes         NID         0.0           x         Nov-215         12:           anic Anions by EPA         300/300.1         Extracted:         Nov-23-15         13:           anic Anions by EPA         300/300.1         Extracted:         Nov-23-15         13:           Analyzed:         Nov-23-15         13:         24.0         24.0           TPH by SW 8015B         Extracted:         Nov-23-15         21:         24.0           asoline Range Hydrocarbons         Units/RL:         mg/kg         32.15         13:           Discel Range Hydrocarbons         Units/RL:         mg/kg         32.15         32:           Discel Range Hydrocarbons         NID         NID         NID         NID	Benzene		ND 0.000994	
cs         NID         0.0           cs         NID         0.0           cs         NID         0.0           nes         NID         0.0           X         ND         0.0           anic Anions by EPA 300/300.1         Extracted:         NOV-23-15 13:           Analyzed:         NOV-23-15 13:         Analyzed:           Analyzed:         NOV-23-15 13:         24,0           TPH by SW 8015B         Extracted:         NOV-23-15 23:           Analyzed:         NoV-23-15 23:         24,0           Analyzed:         NoV-23-15 23:         24,0           Analyzed:         NoV-23-15 23:         24,0           Analyzed:         NoV-23-15 22:         24,0           Discel Range Hydrocarbons         ND         ND	Toluene		66100.0 CIN	
cs     NID     0.0       mes     ND     0.00       mes     ND     0.00       X     ND     0.00       X     ND     0.00       anic Anions by EPA 300/300.1     Extracted:     Nov-20-15 12:       Analyzed:     Nov-23-15 13:     Mit/kg       Analyzed:     Nov-23-15 13:     24,0       TPH by SW 8015B     Extracted:     Nov-23-15 20:       Analyzed:     Nov-23-15 20:     24,0       Analyzed:     Nov-23-15 20:     24,0       Ditself     Extracted:     Nov-23-15 20:       Analyzed:     Nov-23-15 20:     24,0       Analyzed:     Nov-23-15 20:     24,0       Ditself     Extracted:     Nov-23-15 20:       Analyzed:     Nov-23-15 20:     24,0       Analyzed:     Nov-23-15 20:     24,0       Ditself     Hadyreations     ND       Ditself     Nage Hydrocarbons     ND       Ditself     Hadyreations     ND	Ethylbenzene		NID 0.000994	
ncs         ND         0.00           X         ND         0.00           X         ND         0.00           X         ND         0.00           Anions by EPA 300/300.1         Extracted:         Nov-20-15 12:           Analyzed:         Nov-23-15 13:           Analyzed:         Nov-23-15 13:           Analyzed:         Nov-23-15 10:           Analyzed:         Nov-23-15 10:           Analyzed:         Nov-23-15 10:           Analyzed:         Nov-23-15 20:           Analyzed:         ND           Ditrange Hydrocarbons         ND </td <td>m,p-Xylencs</td> <th></th> <td>0.00199 CIN</td> <td></td>	m,p-Xylencs		0.00199 CIN	
nes         ND         0.0           X         NO-20-15         12:           (anic Anions by EPA 300/300.1         Extracted:         Nov-20-15         12:           (anic Anions by EPA 300/300.1         Extracted:         Nov-20-15         12:           (anic Anions by EPA 300/300.1         Extracted:         Nov-23-15         12:           (anic Anions by EPA 300/300.1         Extracted:         Nov-23-15         10:           (anic Anions by SW 8015B         Extracted:         Nov-23-15         10:           (anic Range Hydrocarbons         (unic Range Hydrocarbons)         ND         ND           Stoline Range Hydrocarbons         ND         ND         ND         ND           Dil Range Hydrocarbons         ND         ND         ND         ND           Dil Range Hydrocarbons         ND         ND         ND         ND	o-Xylene	-	ND 0.000994	
X     ND     0.00       anic Anions by EPA 300/300.1     Extracted:     Nov-20-15 12:       anic Anions by EPA 300/300.1     Extracted:     Nov-23-15 13:       Analyzed:     Nov-23-15 13:     24.0       TPH by SW 8015B     Extracted:     Nov-20-15 10:       Analyzed:     Nov-20-15 10:     24.0       Total     Extracted:     Nov-20-15 10:       Soline Range Hydrocarbons     Units/RL:     mg/kg       Soline Range Hydrocarbons     Units/RL:     mg/kg       Diseel Range Hydrocarbons     ND     ND       Dil Range Hydrocarbons     ND     ND       Dil Range Hydrocarbons     ND     ND	Total Xylencs		ND 0.00094	
Anions by EPA 300/300.1     Extracted:     Nov-20-15 12:       Analyzed:     Nov-23-15 13:       Unix/RL:     mg/kg       TPH by SW 8015B     Extracted:     Nov-20-15 10:       TPH by SW 8015B     Extracted:     Nov-20-15 10:       Analyzed:     Nov-20-15 10:     24.0       TPH by SW 8015B     Extracted:     Nov-20-15 10:       Static Analyzed:     Nov-20-15 10:     24.0       Discel Range Hydrocarbons     Units/RL:     mg/kg       Stoline Range Hydrocarbons     ND     ND       Discel Range Hydrocarbons     ND     ND       Dil Range Hydrocarbons     ND     ND	Total BTEX		NID 0.000994	
Analyzed:     Nov-23-15 13:       Units/RL:     mg/kg       Units/RL:     24,0       TPH by SW 8015B     Extracred:     Nov-20-15 10:       Analyzed:     Nov-23-15 22:     Units/RL:     mg/kg       Soline Range Hydrocarbons     Units/RL:     mg/kg       Discel Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND	Inorganic Anions by EPA 300/300.1	Extracted:		
Units/RL:     mg/kg       24.0       TPH by SW 8015B     Extracted:     Nov-20-15 10:       Analyzed:     Nov-23-15 22:       Analyzed:     ND       Dil Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Nil     ND		Analyzed:		
TPH by SW 8015B     24.0       TPH by SW 8015B     Extracted:     Nov-20-15 10:       Analyzed:     Nov-23-15 22:       Analyzed:     mg/kg       asoline Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       ND     ND		Units/RL:	mg/kg	
TPH by SW 8015B     Extracted:     Nov-20-15 10:       Analyzed:     Nov-23-15 22:       Analyzed:     mg/kg       asoline Range Hydrocarbons     Units/RL:     mg/kg       Diseel Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Ni Range Hydrocarbons     ND	Chloride		24.0	
Analyzed:     Nov-23-15 22:       asoline Range Hydrocarbons     Units/RL:     mg/kg       Dissel Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND       Dil Range Hydrocarbons     ND	TPH by SW 8015B	Extracted:	[	
asoline Range Hydrocarbons Umits/RL: mg/kg ND Diesel Range Hydrocarbons ND Dil Range Hydrocarbons ND		Analyzed:		
asoline Range Hydrocarbons ND Diesel Range Hydrocarbons ND Dil Range Hydrocarbons ND		Units/RL:		
Dicsel Range Hydrocarbons ND Dil Range Hydrocarbons ND ND	C6-C10 Gasoline Range Hydrocarbons			
Dil Range Hydrocarbons ND ND ND	C10-C28 Diesel Range Hydrocarbons			
QN	C28-C35 Oil Range Hydrocarbons			
	Total TPH	   		

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

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Julian Martinez Project Manager

R

Final 1.000



## **Flagging Criteria**



- 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 analytic. 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
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 (210) 509-3335

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 (813) 620-2033

 (432) 563-1800
 (432) 563-1713

 (770) 449-8800
 (770) 449-5477

 (602) 437-0330
 (210) 509-3330



Project Name: Cal A/B Launcher

Lab Batch #:	ers: 51976 982003	Sample: 519769-001 / SMP	Batel	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 11/23/15 20:14	SU	RROGATE R	ECOVERY	STUDY	
	ВТЕУ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob	enzene		0.0269	0.0300	90	80-120	
4-Bromofluor			0.0348	0.0300	116	80-120	
Lab Batch #	982033	Sample: 519769-001 / SMP	Batel	n: I Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 22:52	SU	RROGATE R	ECOVERYS	STUDY	<u> </u>
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooctar			91.2	99.8	91	70-135	
o-Terphenyl			42.4	49.9	85	70-135	
Lab Batch #		Sample: 701239-1-BLK / BL					
Units:	mg/kg	Date Analyzed: 11/20/15 11:33	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW 8015B			Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[	(D)	( 1	
1-Chlorooctar	ie		100	100	100	70-135	
o-Terphenyl			43.7	50.0	87	70-135	
Lab Batch #:	982003	Sample: 701277-1-BLK / BL	K Batel	n: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 11/23/15 17:29	SU	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorob	enzene		0.0308	0.0300	103	80-120	
4-Bromofluor	obenzene		0.0359	0.0300	120	80-120	
Lab Batch #	982033	Sample: 701239-1-BKS / BK	IS Batel	n: 1 Matrix	: Solid	·	· ·
Units:	mg/kg	Date Analyzed: 11/20/15 12:08	SU	RROGATE R	ECOVERY	STUDY	
	TPH	I by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctar	ie		119	100	119	70-135	
o-Terphenyl	· · · · · ·		46.6	50.0	93	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

	r <b>ders :</b> 51976 #: 982003	59, 519769 Sample: 701277-1-BKS / B	KS Batcl	Project ID: h: 1 Matrix:			
Units:	mg/kg	Date Analyzed: 11/23/15 16:38	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			{D}		
1,4-Difluor			0.0253	0.0300	84	80-120	
4-Bromoflu			0.0305	0.0300	102	80-120	
Lab Batch	#: 982033	Sample: 701239-1-BSD / B	SD Batch	n: 1 Matrix:	: Solid		
Units:	mg/kg	Date Analyzed: 11/20/15 12:47	SU	RROGATE R	ECOVERY S	STUDY	
	TPI	H by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
l-Chlorooc	tane		116	100	116	70-135	<u> </u>
o-Terpheny			44,4	50.0	89	70-135	<u>-</u>
	#: 982003	Sample: 701277-1-BSD / B		L			
Units:	mg/kg	Date Analyzed: 11/23/15 16:54		RROGATE R		STUDY	
	BTEX by EPA 8021B Analytes			True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0249	0.0300	83	80-120	
4-Bromoflu	orobenzene	,,	0.0311	0.0300	104	80-120	. <u></u>
Lab Batch	#: 982033	Sample: 519769-001 S / MS			Soil		
Units:	mg/kg	Date Analyzed: 11/21/15 09:15		RROGATE R	ECOVERYS	STUDY	
	TPE	I by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		105	99.8	105	70-135	
o-Terpheny	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	37.9	49,9	76	70-135	
Lab Batch	#: 982003	Sample: 519768-001 S / MS	6 Batch	h: 1 Matrix:	Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 20:31	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene		0.0326	0.0300	109	80-120	
4-Bromoflu	iorobenzene		0.0320	0.0300	107	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



Project Name: Cal A/B Launcher

	ders : 51976	-		Project ID			
Lab Batch Units:	#: 982033 mg/kg	Sample: 519769-001 SD / M Date Analyzed: 11/21/15 09:54		h: 1 Matrix JRROGATE R		STUDY	
	TPH	l by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooct	ane		96.7	99.9	97	70-135	
o-Terphenyl			35.1	50.0	70	70-135	
Lab Batch	#: 982003	Sample: 519768-001 SD / M	ASD Bate	h: i Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 11/23/15 20:47	SU	RROGATE R	ECOVERY	STUDY	
	BTE	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro	benzene		0.0291	0.0300	97	80-120	
4-Bromofluc	probenzene		0.0345	0.0300	115	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

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Project Name: Cal A/B Launcher

 Work Order #: 519769, 519769
 Date Prepared: 11/23/2015

 Analyst:
 SYG

 Date Prepared:
 11/23/2015

 Lab Batch ID:
 982003
 Sample:

 Vnits:
 mg/kg
 BLANK / BLANK SPIK

Date Analyzed: 11/23/2015

Project ID:

Matrix: Solid

Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUE	Y	
	BTEX by EPA 8021B	<i>Blank</i> Sample Result [A]	Spike Added	<i>Blank</i> Spike Result	Blank Spike %R	Spike Added	Bhank Spike Duplicate	BJk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Ana	Analytes		[B]	lcl	a	[E]	Result [F]	10				
Benzene		<0.00100	0.100	0.0909	91	0.100	0:0930	93	2	70-130	35	
Toluene		<0.00200	0.100	0.0907	91	0.100	0.0949	95	ŝ	70-130	35	-
Ethylbenzene	nzene	<00100.0>	0.100	0.0951	95	0.100	0.0994	66	4	71-129	35	
m,p-Xylenes	lenes	<0.00200	0.200	0.197	66	0.201	0.208	103	S	70-135	35	
o-Xylene	2	<0.00100	0.100	0.0931	93	0.100	0.0981	98	5	71-133	35	
Analyst:	MNR	D	ate Prepar	Date Prepared: 11/20/2015	5			Date A	nalyzed: ]	Date Analyzed: 11/21/2015		
Lab Batch ID: 981896	ID: 981896 Sample: 701200-1-BKS	sks	Batch #:	ı#: 1					Matrix: Solid	Solid		
Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / 1	<b>BLANK S</b>	SPIKE DUPI	LICATE	RECOVI	ERY STUD	λ	
Inor	Inorganic Anions by EPA 300/300.1	Blank Sample Rcsult	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Ana	Analytes	V	[ <b>B</b> ]	[C]	мк [D]	[E]	Duplicate Result [F]	10 X	\$	X.0%	%W/D	

20

011-06

100

49.9

50.0

101

50.4

50.0

Q.00

Chloride

Relative Percent Difference RPD = 200\*{(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 11 of 18

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Project Name: Cal A/B Launcher

**BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Analyzed: 11/25/2015 Control Limits %R Matrix: Water Project ID: Blk. Spk Dup. %R [G] Blank Spike Duplicate Result [F] Blank Spike %R [D] Date Prepared: 11/25/2015 Blank Spike Result [C] Batch #: 1 Spike Added Blank Sample: 701344-1-BKS **TCLP** Mercury by SW 7470A Work Order #: 519769, 519769 Lab Batch ID: 982154 DATmg/l, Analyst: Units:

Flag

Control 1.imits %RPD

RPD %

Spike Added

sample Result

 $\mathbf{V}$ 

Analytes			B	[C]	a	E	Result [F]	101				
Mercury		<0.000100	0.00500	0.00508	102	0.00500	0.00513	103	1	85-115	20	
Analyst: DAT		ä	ate Preparo	Date Prepared: 11/25/2015	5			Date AI	Date Analyzed: 11/25/2015	1/25/2015		
Lab Batch ID: 982158 Samp	Sample: 701333-1-BKS	KS	Batch #: 1	#: 1					Matrix: Water	Vater		
Units: mg/l.			BLAN	K /BLANK S	SPIKE / J	<b>3LANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE	RECOVE	ERY STUD	Å	
TCLP Metals per ICP by SW846 6010B	46 6010B	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %12	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %B	RPD %	Control Limits %R	Control Limits % RPD	Flag
Analytes		Ē	<u> </u> 8	[c]	[0]	İ∃İ	Result [F]	<u>5</u>	2			
Arsenic		<0.0250	2.50	2.46	98	2.50	2.47	66	0	85-115	20	
Barium	· · · · · · · · · · · · · · · · · · ·	<0.0250	2.50	2.31	92	2.50	2.33	93	-	85-115	20	
Cadmiun		<0.0125	2.50	2.32	93	2.50	2.32	93	0	85-115	20	
Chromium		<0.0125	2.50	2.28	16	2.50	2.34	94	ς	85-115	20	
Lead		<0.0300	2.50	2.23	89	2.50	2.23	89	0	85-115	20	
Selenium		<0.0250	2.50	2.56	102	2.50	2.58	103	-	85-115	20	<u> </u>
Silver		<0.0100	2.50	2.25	90	2.50	2.29	92	5	85-115	20	

Relative Percent Difference RPD = 200\*[(C-F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes





Project Name: Cal A/B Launcher

**BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Analyzed: 11/20/2015 Matrix: Solid Project ID: Date Prepared: 11/20/2015 Batch #: 1 Sample: 701239-1-BKS Work Order #: 519769, 519769 Lab Batch ID: 982033 mg/kg PJB Analyst: Units:

TPH by SW 8015B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	BIK. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[0]	[3]	Result [F]	[6]				
C6-C10 Gasoline Range Hydrocarbons	<15.0	0001	116	98	1000	0001	100	2	70-135	35	
C10-C28 Diesel Range ltydrocarbons	<15.0	1000	1120	112	1000	1120	112	0	70-135	35	

Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes



### Form 3 - MS Recoveries

Date Prepared: 11/20/2015

Batch #: 1



Project Name: Cal A/B Launcher

I	norganic Anions by EPA
Reporting Units:	mg/kg
QC- Sample ID:	519702-001 S
Date Analyzed:	11/21/2015
Lab Batch #:	981896
Work Order #:	519769

### Project ID: Analyst: MNR

Matrix: Soil

Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	JDY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	138	1000	1140	100	80-120	
Lab Batch #: 981896			·		<u>.                                    </u>	<b></b>
Date Analyzed: 11/23/2015	Date Prepared: 11/2	0/2015	А	nalyst: N	1NR	
QC- Sample ID: 519768-002 S	Batch #: 1		N	Aatrix: S	oil	
Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	10.4	250	263	101	80-120	Í

Matrix Spike Percent Recovery  $[D] = 100^{+}(C-A)/B$ Relative Percent Difference  $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries





Work Order # :	519769
Lab Batch ID:	982003
Date Analyzed:	11/23/2015
Reporting Units:	mg/kg
	DTEV 1 ED 4 90311

Matrix: Soil Project ID: -

> QC- Sample ID: 519768-001 S Date Prepared: 11/23/2015

Analyst: SYG

Batch #:

•   •											
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample		(Ida	Control Limits	Control Limits	Plag
Analytes	Result [A]	Added [B]	<u>[]</u>	%R [D]	Added	Result [F]	%R [G]	%	%К	%RPD	
Benzene	<0.00101	0.101	0.0810	80	0.101	0.0892	88	10	70-130	35	
Toluene	<0.00202	0.101	0.0815	81	0.101	0.0873	86	7	70-130	35	
Ethylbenzene	<0.00101	0.101	0.0815	81	0.101	0.0906	60	Ξ	71-129	35	
m,p-Xylencs	<0.00202	0.202	0.166	82	0.202	0.187	93	12	70-135	35	
o-Xylene	<0.00101	0.101	0.0815	81	0.101	0.0907	90	=	71-133	35	
Lab Batch ID: 982154	QC- Sample ID: 519768-001 S	: 519768	-001 S	Bat	Batch #:	l Matrix	Matrix: Soil				
Date Analyzed: 11/25/2015	Date Prepared: 11/25/2015	: 11/25/2	015	Ап	Analyst: DAT	AT					
Reporting Units: mg/L		N	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	U.WA'L	RIX SPIF	<b>(E DUPLICA)</b>	TE REC	OVERY	STUDY		
TCLP Mercury by SW 7470A	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]		%R 101	Added	Result [F]	8 19 19	%	%R	%RPD	

20

75-125

0

0.00507

0.00500 [E]

101

0.00507

0.00500 B

<0.000100

Mercury

<u>c</u> 10

Matrix Spike Percent Recovery [D]  $\approx 100^{\circ}(C-A)B$ Relative Percent Difference RPD =  $200^{\circ}(C-F)/(C+F)$ 

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F+A)/E

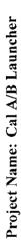
ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Final 1.000

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# Form 3 - MS / MSD Recoveries





519769	982158	11/25/2015	mg/L
Work Order # :	Lab Batch 1D:	Date Analyzed:	Reporting Units:

Project ID:

Matrix: Soil

-

Batch #:

QC- Sample ID: 519768-001 S Date Prepared: 11/25/2015

Date Analyzed: 11/25/2015	Date Prepared: 11/25/2015	11/25/2	015	An	Analyst: DAT	АТ					
Reporting Units: mg/L		N	ATRIX SPIKI	E / MATI	ALX SPLE	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	fe reco	<b>DVERY</b>	STUDY		
TCLP Metals per ICP by SW846 6010B	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample %212	Spike Added	Duplicate Spiked Sample Recult 161	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[V]	[B]	2	a	[E]		[0]	2			
Arsenic	<0.0250	2.50	2.43	57	2.50	2.42	57	0	75-125	20	
Barium	0.364	2.50	2.54	87	2.50	2.56	88	-	75-125	20	
Cadmium	<0.0125	2.50	2.10	84	2.50	2.11	84	0	75-125	20	
Chromium	<0.0125	2.50	2 29	92	2.50	2.29	92	0	75-125	20	
Lead	<0.0300	2.50	2.07	83	2.50	2.07	83	0	75-125	20	
Selenium	<0.0250	2.50	2.55	102	2.50	2.54	102	0	75-125	20	
Silver	<0.0100	2.50	2.31	92	2.50	2.33	93	1	75-125	20	
Lab Batch ID: 982033	QC-Sample ID: 519769-001 S	519769	-001 S	Bai	Batch #:	1 Matrix: Soil	: Soil				
Date Analyzed: 11/21/2015	Date Prepared:	11/20/2015	015	An	Analyst: P	PJB					
Reporting Units: mg/kg		Σ	IATRIX SPIK	E / MATI	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	re reco	OVERY 5	STUDY		:
TPH by SW 8015B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	2	%R [U]	Added [E]	Result [F]	% <b>R</b> [G]	%	Я%	%RPD	
C6-C10 Gasoline Range Hydrocarbons	<15.0	866	995	100	666	929	93	7	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	866	1050	105	666	986	66	6	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)B Relative Percent Difference RPD = 200\*((C-F)/(C+F)]

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, J = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sarraple amount is > 4 times the amount spiked.

Final 1.000

Page 16 of 18

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12 m	□ Previously done at XENCO	y done at XE	NCO				Project ID			TAT: It is ty	AS/ pical	ASAP 5h ically 5-7	Vork Vork	24h Cing D	48h ays fo	or lev	el II and	1 P4 1	10d 2 0+ Wo	21d Str orking d	ays fo	I TAT I level	TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	ect sp i IV d∉	ecific. ata.		]	- 4	_
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Abinquished by (Initials	(Initials and Sign)	Date & Time	Ê		Rel	uquis	Relinquished to	(Initia	ls an	(Initials and Sign)			Date &	& Time	e	Tota	I Cont	ainerś	Total Containers per COC:	Ö			Coolei	Cooler Temp:					
1 10 phaniel 2 inford	201	11/19/205 8865	88		2	م م	. ]					<u>el lu</u>		30	-02-	di la	paid.	agree Sampl	d on w es will	iting. I be nel	Reports 130 da	s are th iys afte	Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless	lectual report	Prope ls e-m	ailed u	XENC( Intèss	0	
	•			Ť	6					·						here	by red	uested	. Rush	Charg	es and	Collec	hereby requested. Rush Charges and Collection Fees are pre-approved if needed.	es are	pre-ap	provec	lif nee	død.	
Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tediar Bag (B), Various (V), Other Cont. Cont. Type: Glass Ar	HCi pH<2 (H), H 32oz ( <b>32</b> ), 40n	2SO4 pH<2 ( 1 VOA (40),	1L (1 1L (1	1N03	Ť	(2), H	Asbc / dlar Bi	Acid&I ag (B)	Vari	Z (A) Sno	D OE	NaOH Ier	Ŕ	Cool	40	ŝ	None Cont.	(NA) Type	See L Glat	ee Label (L), O' Glass Amb (A),	(L), Of nb (A),	Other (O), Glass	ther (O) Glass Clear (C), Plastic (P), Various (V)	(j)	Plastic	( <u> </u>	'arióus	ŝ	
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	Solid (S), Water	(W), Liquid (	<b>`</b>					Con	hitt	Committed to Excellence in Service and Quality	Ц Ц	ellen	ce ir	Se.	Nice	anc	d Qu	alitv						•	MM	W.X0I	WWW.XBRCO.COM	Eo	
	Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenro Laboratories subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.	e of this docum Ind assigns und	ient an Jer Xei	nco's	nquisi	and ter	of these samples constitutes a valid purchese order from client company to Xenco Laboratories and its affiliates, rms and conditions of service unless previously negotiated under a fully executed client contract.	sample conditi	as cons	titutes service	a valic unles:	purch s previ	bse or pusly r	der fro	om clie atad ui	ent con nder a	npany fully e	to Xen xecuta	o Lab	ratorie contrac	s and it	s affiliat	So						

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### **XENCO Laboratories** Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 11/19/2015 08:05:00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 519769	Temperature Measuring device used :
Sample Rece	ipt Checklist Comments
#1 *Temperature of cooler(s)?	6
#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 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Νο
#20 VOC samples have zero headspace (less than 1/4 inch	bubble)? N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? samples for the analysis of HEM or HEM-SGT which are veri analysts.	

analysts. #22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Carley Owens

Date: 11/19/2015

Checklist reviewed by: Hung Hoah Kelsey Brooks

Date: 11/19/2015

### Analytical Report 527665

for Talon LPE

**Project Manager: Sheldon Hitckcock** 

Cal AB Launcher

### 06-APR-16

Collected By: Client





### 1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534-15-1) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)





06-APR-16 Project Manager: **Sheldon Hitckcock Talon LPE** 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 527665 Cal AB Launcher Project Address: NM

### Sheldon Hitckcock:

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) 527665. 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. 527665 will be filed for 60 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,

Kunsk

 Kelsey Brooks

 Project Manager

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### Sample Cross Reference 527665



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### Talon LPE, Artesia, NM

Cal AB Launcher

Sample 1d	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1 I'	S	03-30-16 13:04	<b>-  </b> ft	527665-001
C-2 I'	S	03-30-16 13:06	- 1 ft	527665-002
C-3 1'	S	03-30-16 13:08	- 1 ft	527665-003
C-4 1'	S	03-30-16 13:12	- 1 ft	527665-004
C-5 1'	S	03-30-16 13:15	- 1 ft	527665-005
C-6 1'	S	03-30-16 13:18	- 1 ft	527665-006
C-7 l'	S	03-30-16 13:23	- 1 ft	527665-007

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CASE NARRATIVE

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Client Name: Talon LPE Project Name: Cal AB Launcher

Project ID: Work Order Number(s): 527665 Report Date: 06-APR-16 Date Received: 03/31/2016

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-991555 BTEX by EPA 8021B

Lab Sample ID 527665-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). . Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 527665-001, -002, -003, -004, -005, -006, -007.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

XENCO LABORATORIES	oject ld:
	Project

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**Project Location:** 

Contact:

## Certificate of Analysis Summary 527665 Talon LPE, Artesia, NM Project Name: Cal AB Launcher



Date Received in Lab: Thu Mar-31-16 09:42 am Report Date: 06-APR-16 Project Manager: Kelsey Brooks

	Lab Id:	527665-001	01	527665-002	02	527665-003	003	527665-004	004	527665-005	05	527665-006	)6
A selve Demoded	Field 1d:	C-1 I'		C-2 1'		C-3 I'		C-4 1'		C-5 I'		C-6 I'	
naisanhay sistimuy	Depth:	-1 A		-1 A		-1 A		-1 ft		U 1-		-1 Ĥ	
	Matrix:	SOIL											
	Sampled:	Mar-30-16 13:04	3:04	Mar-30-16 13:06	13:06	Mar-30-16 13:08	13:08	Mar-30-16 13:12	13:12	Mar-30-16 13:15	13:15	Mar-30-16 13:18	3:18
TCLP Mercury by SW 7470A	Extracted:	Apr-05-16 12:10	2:10	Apr-05-16 12:10	2:10	Apr-05-16 12:10	12:10	Apr-05-16 12:10	12:10	Apr-05-16 12:10	12:10	Apr-05-16 12:10	2:10
SUB: E871002	Analyzed:	Apr-05-16 15:48	5:48	Apr-05-16 15:52	5:52	Apr-05-16 15:53	15:53	Apr-05-16 15:55	15:55	Apr-05-16 15:59	5:59	Apr-05-16 16:00	6:00
	Units/RL:	mg/l.	RL	mg/L	RL	ng/L	RI,	mg/L	RL	mg/L	RL	mg/L	RL
Mercury		ON CIN	ND 0.000200	QN	ND 0.000200	0 QN	ND 0.000200						
TCLP Metals by SW846 6010B	Extracted:	Apr-05-16 11:30	1:30	Apr-05-16 11:30	1:30	Apr-05-16 11:30	11:30	Apr-05-16 11:30	11:30	Apr-05-16 11:30	1:30	Apr-05-16 11:30	1:30
SUB: E871002	Analyzed:	Apr-05-16 17:05	7:05	Apr-05-16 17:19	7:19	Apr-05-16 17:24	17:24	Apr-05-16 17:29	17:29	Apr-05-16 17:42	17:42	Apr-05-16 17:47	7:47
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Arsenic		QN	0.0500	Q	0.0500								
Barium		0.254	0.0500	0.365	0.0500	0.402	0.0500	0.705	0.0500	0.318	0.0500	0.186	0.0500
Cadmium		QN	0.0250										
Chromium		QN	0.0500										
Lead		ŊŊ	0.0500	QN	0.0500								
Selenium		QN	0.100	QN	0.100	QN	0.100	QN	0.100	Q	0,100	QN	0.100
Silver		QN	0.100	QN	0.100	QN	0.100	QN	0.100	QN	0,100	QN	0.100

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Project Location:

Contact:

## Certificate of Analysis Summary 527665 Talon LPE, Artesia, NM Project Name: Cal AB Launcher



 Date Received in Lab:
 Thu Mar-31-16 09:42 am

 Report Date:
 06-APR-16

 Project Manager:
 Kelsey Brooks

	Lab Id:	527665-001	527665-002	527665-003	527665-004	527665-005	527665-006
Androic Domand	Field Id:	C-1 I'	C-2 I'	C-3 I'	C-4 1'	C-5 I'	C-6 1'
naisanhay sistimuy	Depth:	1 ft	υU	U I	1 Ĥ	1 fl	1 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
}	Sampled:	Mar-30-16 13:04	Mar-30-16 13:06	Mar-30-16 13:08	Mar-30-16 13:12	Mar-30-16 13:15	Mar-30-16 13:18
BTEX by EPA 8021B	Extracted:	Mar-31-16 12:00	Mar-31-16 12:00	Mar-31-16 12:00	Mar-31-16 12:00	Mar-31-16 12:00	Mar-31-16 12:00
	Analyzed:	Mar-31-16 14:06	Mar-31-16 14:23	Mar-31-16 14:39	Mar-31-16 14:56	Mar-31-16 15:12	Mar-31-16 15:29
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0:00150	ND 0.00150	ND 0.00149	ND 0.00150	ND 0.00149	ND 0.00150
Toluenc		ND 0.00200	ND 0.00200	ND 0.00198	ND 0.00200	66100'0 CIN	ND 0.00200
Ethylbenzene	 	0.00329 0.00200	ND 0.00200	ND 0.00198	ND 0.00200	00100 ON	ND 0.00200
m,p-Xylenes		0.00410 0.00200	ND 0.00200	86100'0 QN	ND 0.00200	ND 0.00199	ND 0.00200
o-Xylenc		ND 0.00299	ND 0.00299	ND 0.00298	ND 0.00299	ND 0.00298	ND 0.00299
Total Xylenes		0.00410 0.00200	ND 0.00200	ND 0.00198	ND 0.00200	ND 0.00199	ND 0.00200
Total BTEX		0.00739 0.00150	ND 0.00150	ND 0.00149	ND 0.00150	ND 0.00149	ND 0.00150
Inorganic Anions by EPA 300/300.1	Extracted	Apr-03-16 17:50	Apr-03-16 17:50	Apr-03-16 17:50	Apr-03-16 17:50	Apr-03-16 17:50	Apr-03-16 17:50
	Analyzed	Apr-04-16 07.55	Apr-04-16 08:15	Apr-04-16 08:36	Apr-04-16 08:56	Apr-04-16 09:16	Apr-04-16 10:17
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		259 100	106 40.0	24.5 20.0	3.12 2.00	303 100	748 100
TPH By SW8015B Mod	Extracted:	Mar-31-16 14:00	Mar-31-16 14:00	Mar-31-16 14:00	Mar-31-16 14:00	Mar-31-16 14:00	Mar-31-16 14:00
	Analyzed:	Mar-31-16 17:32	Mar-31-16 18:41	Mar-31-16 19:03	Mar-31-16 19:25	Mar-31-16 19:47	Mar-31-16 20:09
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons	 	27.2 15.0	ND 14.9	ND 15.0	ND 14.9	ND 15.0	ND 15.0
C10-C28 Diesel Range Hydrocarbons		1220 15.0	33.8 14.9	0.21 CIN	ND 14.9	ND 15.0	ND 15.0
C28-C35 Oil Range Hydrocarbons		ND 15.0	ND 14.9	ND 15.0	ND 14.9	ND 15.0	ND 15.0
Total TPH		1250 15.0	33.8 14.9	ND 15.0	ND 14.9	ND 15.0	ND 15.0

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Project Manager Kelsey Brooks

Kunz Moah



ΜN

Project Location:

Contact:

## Certificate of Analysis Summary 527665 Talon LPE, Artesia, NM Project Name: Cal AB Launcher



 Date Received in Lab:
 Thu Mar-31-16 09:42 am

 Report Date:
 06-APR-16

 Project Manager:
 Kelsey Brooks

			_	
		100-000170		
A solucio Docuocio	Field Id:	C-7 I'		
Anarysis Nequesica	Depth:	-1 A		
	Matrix:	SOIL		
	Sampled:	Mar-30-16 13:23		
7470A	Extracted:	Apr-05-16 12:10		
SUB: E871002	Analyzed:	Apr-05-16 16:02		
	Units/RL:	mg/L RL ,		
Mercury		ND 0.000200		
6 6010B	Extracted:	Apr-05-16 11:30		
SUB: E871002	Analyzed:	Apr-05-16 17:52		<u></u>
	Units/RL:	mg/L RL		
Arsenic		ND 0.0500		
Barium		0.136 0.0500		
Cadmium		ND 0.0250		
Chromium		ND 0.0500		
Lead		ND 0.0500		i
Selenium		ND 0.100		
Silver	-	001.0 CIN		

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Mund Roah

Project Manager Kelsey Brooks



МN

Project Location:

Contact:

## Certificate of Analysis Summary 527665 Talon LPE, Artesia, NM Project Name: Cal AB Launcher



 Date Received in Lab:
 Thu Mar-31-16 09:42 am

 Report Date:
 06-APR-16

 Project Manager:
 Kelsey Brooks

	Lab Id:	527665-007	
Analycic Danuactad	Field Id:	C-7 I'	
nation weather	Depth:	I U	
	Matrix:	. SOIL	
	Sampled:	Mar-30-16 13:23	
BTEX by EPA 8021B	Extracted:	Mar-31-16 12:00	
	Analyzed:	Mar-31-16 15:45	
	Units/RL:	mg/kg RL	
Benzene		ND 0.00149	
Toluene .		ND 0.00198	
Ethylbenzene		86100°0 CN	
m.p-Xylenes		ND 0.00198	
o-Xylene		ND 0.00298	
Total Xylenes		ND 0.00198	
Total BTEX	-	0.00149 0.00149	
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-03-16 17:50	
	Analyzed:	Apr-04-16 11:02	
	Units/RL:	mg/kg RL	
Chloride		1050 100	
TPH By SW8015B Mod	Extracted:	Mar-31-16 14:00	
	Analyzed:	Mar-31-16 20:32	
	Units/RL:	mgkg RL	
C6-C10 Gasoline Range Hydrocarbons		ND 15.0	
C10-C28 Diesel Range Hydrocarbons		ND 15.0	
C28-C35 Oil Range Hydrocarbons	-	ND 15.0	
Total TPH		ND 15.0	

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Rund Roah

Project Manager Kelsey Brooks



### **Flagging Criteria**



- 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
- DL Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



Project Name: Cal AB Launcher

work Or Lab Batch	<b>ders :</b> 52766 #: 991555	5, Sample: 527665-001 / SMP	Batel	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 03/31/16 14:06	SU	RROGATE R	ECOVERY	STUDY	
	втех	K by EPA 8021B	Amount Found [A]	True Amount  B	Recovery %R	Control Limits %R	Flags
<del></del> -		Analytes			[D]		
1,4-Difluore			0.0274	0.0300	91	80-120	
4-Bromoflue			0.0273	0.0300	91	80-120	
	#: 991555	Sample: 527665-002 / SMP	Batel	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 14:23	SU	RROGATE R	ECOVERY	STUDY	
	втех	K by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0295	0.0300	98	80-120	
4-Bromoflu			0.0280	0.0300	93	80-120	
Lab Batch	#: 991555	Sample: 527665-003 / SMP	Batel	1 h: I Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 14:39	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	henzene		0.0268	0.0300	89	80-120	
4-Bromoflu		······································	0.0353	0.0300	118	80-120	
		Sample: 527665-004 / SMP	Batch				
Units:	mg/kg	Date Analyzed: 03/31/16 14:56		RROGATE R		STUDY	<u> </u>
<u> </u>	втех	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	obenzene		0.0303	0.0300	101	80-120	
4-Bromoflu	orobenzene		0.0286	0.0300	95	80-120	
Lab Batch	#: 991555	Sample: 527665-005 / SMP	Batch	h: l Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 15:12	SU	RROGATE R	ECOVERY	STUDY	
	втех	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	121		[D]		
1,4-Difluoro	obenzene	Analytes	0.0299	0.0300	[D] 100	80-120	

\* Surrogate outside of Laboratory QC limits
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



Project Name: Cal AB Launcher

Lab Batch	#: 991555	Sample: 527665-006 / SMP	Bate	h: 1 Matrix	: 501		
Units:	mg/kg	Date Analyzed: 03/31/16 15:29	SU	RROGATE R	ECOVERY S	STUDY	u .
	BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluoro			0.0303	0.0300	101	80-120	
4-Bromoflu			0.0281	0.0300	94	80-120	
Lab Batch	#: 991555	Sample: 527665-007 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 15:45	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene		0.0303	0.0300	101	80-120	
4-Bromoflu			0.0279	0.0300	93	80-120	
Lab Batch	#: 991537	Sample: 527665-001 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 17:32	su	RROGATE R	ECOVERY S	STUDY	
	ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage
1-Chlorooct	ane		110	99.8	110	70-135	
o-Terpheny			52.7	49.9	106	70-135	,
	#: 991537	Sample: 527665-002 / SMP	Bate				
Units:	mg/kg	Date Analyzed: 03/31/16 18:41		RROGATE R		STUDY	
	трн б	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		98.8	99.6	99	70-135	
o-Terpheny	1		46.6	49.8	94	70-135	
Lab Batch	#: 991537	Sample: 527665-003 / SMP	Bate	h: i Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 03/31/16 19:03	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН І	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooct	ana		102	99.7	102	70-135	
	anc		104	1 39.7	1 102	1 10-133	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



Project Name: Cal AB Launcher

	<b>ders :</b> 52766 #: 991537	5, Sample: 527665-004 / SMP	Bate	Project ID h: 1 Matrix			
Jnits:	mg/kg	Date Analyzed: 03/31/16 19:25	SU	JRROGATE R	ECOVERYS	STUDY	
	ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			D]		
1-Chlorooct	ane		102	99.6	102	70-135	
o-Terpheny			48.9	49.8	98	70-135	
Lab Batch	#: 991537	Sample: 527665-005 / SMP	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 19:47	st	JRROGATE R	ECOVERY S	STUDY	
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		106	99.8	106	70-135	
o-Terpheny			52.0	49.9	104	70-135	
	#: 991537	Sample: 527665-006 / SMP	Batc				
Units:	mg/kg	Date Analyzed: 03/31/16 20:09	si	JRROGATE R	ECOVERYS	STUDY	
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount  B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		105	99.8	105	70-135	
o-Terpheny			50.8	49.9	102	70-135	
		Sample: 527665-007 / SMP	Bate			1I	
o-Terpnenyl           Lab Batch #:         991537         Sample:         527665-007 / SM           Units:         mg/kg         Date Analyzed:         03/31/16         20:32			SU	JRROGATE R		STUDY	_ <u></u>
	трн в	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R '	Flags
1-Chlorooc	ane		101	99.7	101	70-135	
o-Terpheny			48.4	49.9	97	70-135	
Lab Batch	#: 991555	Sample: 707193-1-BLK / BLI	K Bate	h: 1 Matrix	: Solid	'	
Units:	mg/kg	Date Analyzed: 03/31/16 13:50	SU	JRROGATE R	ECOVERYS	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
				1			
1,4-Difluor	obenzene		0.0284	0,0300	95	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



Project Name: Cal AB Launcher

Work Orders : 527665, **Project ID:** Lab Batch #: 991537 Sample: 707182-1-BLK / BLK Matrix: Solid Batch: 1 Date Analyzed: 03/31/16 16:22 Units: mg/kg SURROGATE RECOVERY STUDY Amount True Control TPH By SW8015B Mod Found Amount Recovery Limits Flags %R [A] [B] %R D Analytes 1-Chlorooctane 112 100 112 70-135 o-Terphenyl 53.4 50.0 107 70-135 Lab Batch #: 991555 Sample: 707193-1-BKS / BKS Batch: 1 Matrix: Solid Date Analyzed: 03/31/16 12:27 Units: mg/kg SURROGATE RECOVERY STUDY True Amount Control BTEX by EPA 8021B Found Amount Recovery Limits Flags · [A][B] %R %R D Analytes 1,4-Difluorobenzene -0.0290 0.0300 97 80-120 4-Bromofluorobenzene 0.0301 0.0300 100 80-120 Lab Batch #: 991537 Sample: 707182-1-BKS / BKS Batch: Matrix: Solid 1 Units: mg/kg Date Analyzed: 03/31/16 16:46 SURROGATE RECOVERY STUDY Amount True Control TPH By SW8015B Mod Found Amount Recovery Limits Flags %R %R [A][B] [D] Analytes 1-Chlorooctane 122 100 122 70-135 50.0 o-Terphenyl 51.2 102 70-135 Lab Batch #: 991555 Sample: 707193-1-BSD / BSD Batch: 1 Matrix: Solid Units: mg/kg Date Analyzed: 03/31/16 12:44 SURROGATE RECOVERY STUDY Control Amount True BTEX by EPA 8021B Found Amount Recovery Limits Flags %R %R |A|[B] [D] Analytes 80-120 1,4-Difluorobenzene 0.0295 0.0300 98 4-Bromofluorobenzene 0.0297 0.0300 99 80-120 Lab Batch #: 991537 Sample: 707182-1-BSD / BSD Batch: 1 Matrix: Solid Date Analyzed: 03/31/16 17:10 Units: mg/kg SURROGATE RECOVERY STUDY Amount True Control TPH By SW8015B Mod Limits Flags Found Recovery Amount [B] %R %R [A]D Analytes 1-Chlorooctane 118 100 118 70-135 o-Terphenyl 50.2 50.0 100 70-135

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



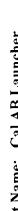
Project Name: Cal AB Launcher

	r <b>ders :</b> 52766 #: 991555	5, Sample: 527665-001 S / MS	Bate	Project ID			
Units:	mg/kg	Date Analyzed: 03/31/16 13:00		JRROGATE R	ECOVERY	STUDY	
	BTEX	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluor	obenzene		0.0286	0.0300	95	80-120	
4-Bromoflu	orobenzene		0.0311	0.0300	104	80-120	
Lab Batch	#: 991537	Sample: 527665-001 S / MS	Bate	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 03/31/16 17:54		JRROGATE R	ECOVERY S	STUDY	
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		125	99.9	125	70-135	
o-Terpheny	1		51.9	50.0	104	70-135	
Lab Batch	#: 991555	Sample: 527665-001 SD / N	ISD Bate	h; l Matrix	: Soil	<u> </u>	
Units:	mg/kg	Date Analyzed: 03/31/16 13:17	કા	JRROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021B	Amount Found	True Amount	Recovery	Control Limits %R	Flags
		Analytes	[A]	[B]	%R [D]	70 K	
1,4-Difluor	obenzene		0.0279	0.0300	93	80-120	
4-Bromoflu	orobenzene		0.0298	0.0300	99	80-120	
Lab Batch	#: 991537	Sample: 527665-001 SD / M	ISD Bate	h: 1 Matrix	: Soil	·	
Units:	mg/kg	Date Analyzed: 03/31/16 18:17	su	JRROGATE R	ECOVERY	STUDY	
	ТРН Б	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		128	99.9	128	70-135	
o-Terpheny	1		54.4	50.0	109	70-135	

\* Surrogate outside of Laboratory QC limits

- \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
- \*\*\* Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 \* A / B
- All results are based on MDL and validated for QC purposes.

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Project Name: Cal AB Launcher

Date Prepared: 03/31/2016 Batch #: ] Sample: 707193-1-BKS Work Order #: 527665 Lab Batch ID: 991555 PJB Analyst:

Date Analyzed: 03/31/2016 Matrix: Solid

Project ID:

Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	<b>BLANK S</b>	PIKE DUPI	LICATE	RECOVI	ERY STUD	Y	
	BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	lytes		[ <u>B</u> ]		la	E	Result [F]	10				
Benzene		<0.00150	0.100	0.0932	93	0.100	0.0890	89	5	70-130	35	
Tolucne	f l	<0.00200	0.100	0.0944	94	0.100	9160:0	92	3	70-130	35	
Ethylbenzene	Izene	<0.00200	0.100	0.105	105	0.100	0.101	101	4	71-129	35	
m,p-Xylenes	ches	<0.00200	0.200	0.204	102	0.200	0.197	66	з	70-135	35	-
o-Xylene		<0.00300	0.100	0.0976	86	0.100	0.0946	95	3	71-133	35	}
Analyst:	MNR	Da	ite Prepare	Date Prepared: 04/03/2016	6			Date A	nalyzed: (	Date Analyzed: 04/04/2016		
Lab Batch ID: 991677	D: 991677 Sample: 707259-1-BKS	KS	Batch #:	1 #: 1					Matrix: Solid	Solid		
Units:	mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	<b>3LANK S</b>	PIKE DUP	LICATE	RECOVI	ERY STUD	Y	
Inorg	Inorganic Anions by EPA 300/300.1	Blank Sample Result IAl	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	BIK. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	56 13 14
Analytes	lytes		[ <u>B</u> ]			13	Result [F]	<u>[</u> ]				
Chloride		2.00	50.0	53.3	107	50.0	50.6	101	s	90-110	20	1

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Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

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rder		:	1					Pro	Project ID:		
Analyst: BHRE		â	ate Prepar	Date Prepared: 04/05/2016	16			Date A	Date Analyzed: 04/05/2016	4/	05/2016
Lab Batch ID: 991786	Sample: 707323-1-BKS	BKS	Batch #:	h#: 1					Matrix: Water	Vate	Ŀ
Units: mg/L			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / I	<b>BLANK S</b>	PIKE DUP	LICATE	RECOVI	ERY	'STUI
TCLP Mercury by SW 7470A	y SW 7470A	Blank Samnle Result	Spike Added	Blank Snike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dun.	RPD	51	Control Limits
Analytes		. [V]	[B]	Result [C]	10] 10]	[3]	Duplicate Result [F]	[G %R	%	1	%R
Mercury		<0.000200	0 00200	0.00190	95	0.00200	0.00222	Ξ	16	80	80-120
Analyst: BHRE			ate Prcpar	Date Prepared: 04/05/2016	16			Date A	Date Analyzed: 04/05/2016	14/05/	2016
Lab Batch ID: 991790	Sample: 707325-1-BKS	BKS	Batch #:	h#: 1					Matrix: Water	Vater	
Units: mg/L			BLAN	<b>BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY</b>	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY :	STUI
TCLP Metals by SW846 6010B	W846 6010B	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike	Spike Added	Blank Spike Durdicate	Blk. Spk Dup. %B	RPD %	Control Limits % P	ontrol imits % P
Analytes		[v]	[8]	5	(a)	E	Result [F]	<u>[</u> ]	R	2	:
Arsenic		<0.0100	1.00	126-0	16	1.00	0.978	- 86	-	80-120	120
Barium		<0.0100	1.00	0.935	94	1.00	0.940	94	-	80-	80-120
Cadmium		<0.00500	1.00	0.946	95	1.00	0.950	95	0	80-	80-120
Chromium		<0.0100	1.00	1.04	104	1.00	1.05	105	-	80-	80-120
Lead		<0.0100	1.00	966:0	100	1.00	866.0	100	0	80-120	50

Flag

Flag

20 ຊ

80-120 80-120

> --

117 98

0.977 0.583

1.00 0.500

116 76

0.500 1.00

0 972 0.580

<0.0200 <0.0200

Selenium Silver Relative Percent Difference RPD = 200\*(C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes







.

Work Ord	<b>Work Order #:</b> 527665								Proje	Project ID:			
Analyst:	ARM		Di	Date Prepared: 03/31/2016	I: 03/31/201	6			Date An	alyzed: 0	<b>Date Analyzed:</b> 03/31/2016		
Lab Batch ]	ab Batch ID: 991537	Sample: 707182-1-BKS	KS	Batch #: 1	4: 1				F.	Matrix: Solid	olid		
Units:	mg/kg			BLANK	/BLANK	SPIKE / B	LANK SI	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	ICATE F	RECOVE	RY STUE	- A	
	TPH By SW8015B Mod	15B Mod	Blank Spike	Spike	Blank Snike	Blank Spike Snike Added		Blank Snike	Blank Blk. Spk Snike Dun RPD	ud 8	Control Control Limits Flag	Control Limits	F B B C

TPH By SW8015B Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
	[V]		Result	%R		Duplicate	%К	%	%В	%RPD	
Analytes		[ <u>B</u> ]	ן . <u>כ</u>	<u>a</u>	E	Result [F]	<u>5</u>		ļ		
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	844	84	1000	828	83	2	70-135	35	
C10-C28 Dicsel Range Hydrocarbons	<15.0	1000	934	93	1000	866	87	8	70-135	35	

3

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Relative Percent Difference RPD = 200\*((C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

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### Form 3 - MS Recoveries



Flag

Project Name: Cal AB Launcher

		Proje	ect ID:	•	
Date Prepared: 04/03/	2016	А	nalyst: N	ANR	
Batch #: 1		N	Matrix: S	oil	
MATR	X / MA	TRIX SPIKE	RECO	VERY STU	JDY
Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Fla
[A]	[B]				
734	2500	3380	106	80-120	
Date Prepared: 04/04/	2016	А	.nalyst: N	4NR	
<b>Batch #:</b> 1		N	Matrix: S	oil	
MATR	X / MA	TRIX SPIKE	RECO	VERY STU	JDY
	Batch #: 1 MATRI Parent Sample Result [A] 734 Date Prepared: 04/04/ Batch #: 1	MATRIX / MA       Parent       Sample       Result       IAI       734       2500       Date Prepared: 04/04/2016       Batch #:	Date Prepared: 04/03/2016       A         Batch #:       1         MATRIX / MATRIX SPIKE         Parent       Spike         Sample       Spike         Result       Added         [C]       [C]         734       2500         Date Prepared: 04/04/2016       A         Batch #:       1	Batch #:     1     Matrix: S       MATRIX / MATRIX SPIKE     RECO       Parent     Spike     Spike       Sample     Spike     Result       Result     Added     [C]       [A]     [B]     [C]       734     2500     3380       Date Prepared:     04/04/2016     Analyst: N       Batch #:     1     Matrix: S	Date Prepared: 04/03/2016     Analyst: MNR       Batch #:     I     Matrix: Soil       MATRIX / MATRIX SPIKE     RECOVERY STU       Parent     Spiked Sample     Control       Sample     Spike     Result     %R       IAI     IBJ     [D]     %R       734     2500     3380     106       Bate Prepared: 04/04/2016     Analyst: MNR

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Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1010	2500	3670	106	80-120	

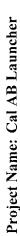
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Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference [E] = 200\*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries





03/31/2016 991555 527665 Work Order # : Date Analyzed: Lab Batch ID:

Matrix: Soil Project ID: -Analyst: PJB Batch #: QC- Sample ID: 527665-001 S Date Prepared: 03/31/2016

Reporting Units: mg/kg		N	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E/MAT	RIX SPII	KE DUPLICA	TE REC	OVERY	STUDY		
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result	Added [B]	5	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	<0.00150	8660.0	0.0596	60	0.0992	0.0579	58	۳.	70-130	35	×
Toluene	<0.00200	8660.0	0.0603	. 09	0.0992	0.0559	56	8	70-130	35	×
Ethylbenzene	0.00329	8660.0	0.0647	62	0.0992	0.0587	56	10	71-129	35	×
m,p-Xylenes	0.00410	0.200	0.125	9	0.198	0.112	54	=	70-135	35	×
o-Xylcne	<0.00299	8660 0	0.0628	63	0.0992	0.0544	55	14	71-133	35	×
Lab Batch ID: 991786	QC- Sample ID: 527665-001 S	527665	-001 S	Ba	Batch #:	I Matris	Matrix: Soil				
Date Analyzed: 04/05/2016	Date Prepared: 04/05/2016	: 04/05/2	016	ЧN	Analyst: BHRE	HRE					
Reporting Units: mg/L		N	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E/MAT	RIX SPII	KE DUPLICA	TE REC	OVERY	<b>Å</b> dn LS		
TCLP Mercury by SW 7470A	Parent Sample	Spike	Spiked Sample Result	N W	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[]	8% [0]	Added [E]	Result [F]	s. 1G	*	%R	%RPD	

20

75-125

5

88

0.00175

0.00200

94

0.00188

0.00200

<0.000200

Mercury

Matrix Spike Percent Recovery [D] = 100\*(C-A)B Relative Percent Difference RPD = 200\*(C-F)(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

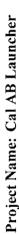
ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank. NR = Not Requested. I = Interference. NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Caiculable • Sample amount is > 4 times the amount spiked.

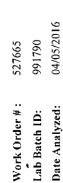
Final 1.000

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# Form 3 - MS / MSD Recoveries





Analyst: BHRE QC- Sample ID: 527665-001 S Date Prepared: 04/05/2016

Matrix: Soil -

Batch #:

Project ID:

Reporting Units: mg/L			M	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MA'FF	AIA SPIF	E DUPLICA	fe reco	OVERY S	YUDY		
TCLP Metals by SW846 6010B	10B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes			Added [B]	<u>.</u>	10]	E]	Kesuit [F]	<u>פ</u>	%	X%	%KPD	
Arsenic		<0.0500	5.00	5.20	104	5.00	5.24	105		80-120	20	
Barium		0.254	5.00	5.05	, 96	5.00	5.08	57	-	80-120	20	
Cadmium		<0.0250	5.00	4,95	66	5.00	4.98	001	-	80-120	20	
Chromium		<0.0500	5.00	5.34	107	5,00	5.38	108		80-120	20	
Lead		<0.0500	5.00	4.96	66	5.00	5.01	100	-	80-120	20	
Selenium		<0.100	5.00	5.21	104	5.00	5.31	106	2	80-120	20	
Silver		<0.100	2.50	2.98	119	2.50	2.97	119	0	80-120	20	
Lab Batch ID: 991537	8	QC- Sample ID: 527665-001 S	527665	S 100-	Bat	Batch #:	l Matrix:	: Soil				
Date Analyzed: 03/31/2016	a	<b>Date Prepared: 03/31/2016</b>	03/31/2(	016	Ans	Analyst: ARM	RM					
Reporting Units:mg/kg			V	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	3/MATF	AIX SPIF	E DUPLICA	FE RECO	OVERV S	YOUTS		
TPH By SW8015B Mod		Parent Sample	Spike	Spiked Sample Result	Spiked Sample	• • • •	Duplicate Spiked Sample	Spiked Dup.	GPD	Control Limits	Control Limits	Flag
Analytes		Result [A]	Added [B]	lc]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	

35 35

70-135 70-135

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1010 2340

666 666

86 105

2270 889

666 999

1220 27.2

C6-C10 Gasoline Range Hydrocarbons

C10-C28 Diesel Range Hydrocarbons

112 98

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*(C-F)/(C+F)

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 20 of 22

															4	NAL	χSI	9 RE	BUE	ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD	HAII	Ů Z	C	STO!	₽ Y B		9		
	<ul> <li>4143 Greenbriar Drive, Stafford, TX 77477 28:</li> <li>5332, Biackberry Drive, San Antonio, TX 79238</li> </ul>	ve, Stafford, TX ve, San Antonio	77 <i>4</i> 77 7 X T	. <b>28</b> 8238	1-24	<b>281-240-4200</b> 238 - <b>210-509-3334</b>	3334				01 Ha 600 W	my Hina lest I-21	es Blvr 0 East	d. Dall Odes	U Kas	9701 Harry Hines Blvd., Daltas, TX 7520 12600 West I-20 East, Odessa, TX 79785		214-902-0300 432-583-1800	0300 1800	Serial #:		33(	-	849		Page	ō		
Company-City	1 DF 1 AL	MIN NY	Ē	Phone	e L	100	hone 1-21- 1.04-1-148	\$		۲ ۲	Lab Only		1										S	15				<b></b>	
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2 3 John Dich of	Å	3/30/16 3/31/2016	11.12	-1-1				¥1				20		11 0 1 11 0 11	46		lerwis Il paid ety re	e agree . Samp niester	od on w les will d Bush	Otherwise agreed on writing. Reports are/C/F:0 etotil paid. Samples will be held 30 days e/Corrected Temp: hereby requested Duck Channes and Collection Econe are no environt.	eports 30 day	are S are C C C	P:0 brrect: br Ee	ed Tel	d L				
31 of Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N)	HCI PH<2 (H), H2	2SO4 pH<2 (	н Э		ĬŦ	Î.	Asbo	Add&	NaOL	3	ZnAct	NaO	E H	Ű	13	2 ( <u>)</u>   ()	Non	e (NA)	See L	), Asbc Add&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),See Label (L), Other (O)	Ö U U	er (0	5					į	
Cont. Size: 4oz (4), 8oz (8)	), 32oz ( <b>32</b> ), 40m	I VOA (40),	() 1	00	) E	5). Te	diar Bi	13 (B)	, Var	) snoj	o Ś	ther -					Col	Type	Gla	ss Amb	€ ₹	slass	Clear	ຍີ	Plastic	>, (a)	arlous	ε	
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	, Solid (S), Water	(W), Liquid (I	ן בי		4		(these	Š į	nmiti	ed to	Щ	celle.	000	N II	ervic	18 9.	Ñ D	Committed to Excellence in Service and Quality			1				Ň	www.xenco.com	00.00	ŝ	
	Notice: Signature of this document and relinquishment subcontractors and sections under Yenco's standard to	of anis accume ad seeions work		ullej p	iduistr Tanda	Den co Terres Terres	l linese	samp.	sampies consum unditions of servi	Suture	a val	o purc	hase d	chase order from Morishi periotici		lient of	mpan			of these samples constitutes a valid purchase order from client company to Xenco Laboratones and its affiliates, me and conditions of earding improving conditional indiana fully occurred allocationes.	and its	affillat	sî		,				

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Page 21 of 22



### XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 03/31/2016 09:42:00 AM **Temperature Measuring device used :** Work Order #: 527665 Comments Sample Receipt Checklist #1 \*Temperature of cooler(s)? 2.9 #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? Yes #5 \*Custody Seals intact on shipping container/ cooler? Yes #6 Custody Seals intact on sample bottles? Yes #7 \*Custody Seals Signed and dated? Yes #8 \*Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinquished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? No #21 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A #22 <2 for all samples preserved with HNO3, HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

٩,

PH Device/Lot#:

Checklist completed by:

Minerva Rios

Date: 03/31/2016

Checklist reviewed by:

Huns Hoak elsey Brooks

Date: 03/31/2016

### Analytical Report 528951

for

**Talon LPE** 

**Project Manager: Sheldon Hitckcock** 

Cal AB Launcher

29-APR-16

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-15-19), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400) Xenco-San Antonio: Texas (T104704534-15-1) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD ( L10-135) Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)





29-APR-16 Project Manager: Sheldon Hitckcock Talon LPE 408 W. Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 528951 Cal AB Launcher Project Address: NM

### Sheldon Hitckcock:

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) 528951. 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. 528951 will be filed for 60 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,

Kuns

**Kelsev Brooks** 

Project Manager Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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### Sample Cross Reference 528951



Talon LPE, Artesia, NM

Cal AB Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1 1.5'	S	04-22-16 11:00	- 1.5 ft	528951-001
C-7 1.5'	S	04-22-16 10:15	- 1.5 ft	528951-002

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CASE NARRATIVE

Client Name: Talon LPE Project Name: Cal AB Launcher



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Project ID: Work Order Number(s): 528951 Report Date: 29-APR-16 Date Received: 04/22/2016

.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Page 4 of 14



WN

**Project Location:** 

Contact:

### **Certificate of Analysis Summary 528951** Project Name: Cal AB Launcher Talon LPE, Artesia, NM



Date Received in Lab: Fri Apr-22-16 03:58 pm Project Manager: Kelsey Brooks Report Date: 29-APR-16

	Lab 1d	528951-001	528951-002	
Analucio Desucoted	Field Id:	C-1 1.5'	C-7 1.5'	
naisanhay sistimuy	Depth:	1.5 A	1.5 ft	
	Matrix:	SOIL	SOIL	
	Sampled:	Apr-22-16 11:00	Apr-22-16 10:15	
Inorganic Anions by EPA 300/300.1	Extracted:		Apr-28-16 18:00	
	Analyzed:		Apr-29-16 13:21	
	Units/RL:		mg/kg RL	
Chloride			629 40.0	
TPH By SW8015B Mod	Extracted:	Apr-23-16 11:00		
	Analyzed:	Apr-25-16 09:17		
	Units/RL:	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons		ND 15.0	0.	
C10-C28 Diesel Range Hydrocarbons		17.9 15.0	0.	
C28-C35 Oil Range Hydrocarbons		ND 15.0	0.	
Total TPH		17.9 15.0	0	

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 juggment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and marks no warmany to the end use of the data hereby presented. Our liability is limited to the anyourt myoiced for this work order unless otherwise agreed to in writing.

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Mund Moah Kelsey Brooks

Project Manager



### **Flagging Criteria**



- 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.
- 1. 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.
- 11 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.

LOD Limit of Detection

LOQ Limit of Quantitation

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

- **RL** Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit
- PQL Practical Quantitation Limit MQL Method Quantitation Limit
- DL Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- \* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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4147 Greenbriar Dr, Stafford, TX 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	



Project Name: Cal AB Launcher

_ab Batch	<b>ders :</b> 52895 #: 993066	Sample: 528951-001 / SMP	Batch	Project ID h:   Matrix			
Jnits:	mg/kg	Date Analyzed: 04/25/16 09:17		RRÓGATE R	ECOVERY S	STUDY	
	ТРН В	y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ine		85.0	99.9	85	70-135	
o-Terphenyl			44.5	50.0	89	70-135	
Lab Batch	#: 993066	Sample: 708099-1-BLK / BI	JK Batel	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/24/16 01:46	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
I-Chloroocta	ine		104	100	104	70-135	
o-Terphenyl			52,8	50.0	104	70-135	
Lab Batch	#: 993 <u>066</u>	Sample: 708099-1-BKS / BI					
Units:	mg/kg	Date Analyzed: 04/24/16 02:11		RROGATE R		STUDY	
	ТРН В	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flag
		Analytes			[D]		
1-Chloroocta	ane		119	100	119	70-135	
o-Terphenyl			53.5	50.0	107	70-135	
Lab Batch	#: 993066	Sample: 708099-1-BSD / BS	SD Batch	h: 1 Matrix	: Solid		
Units:	mg/kg	Date Analyzed: 04/24/16 02:38	SU	RROGATE R	ECOVERY S	STUDY	
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R  D]	Control Limits %R	Flags
1-Chloroocta	ane		104	100	104	70-135	
o-Terphenyl	······		46.9	50.0	94	70-135	
Lab Batch	#: 993066	Sample: 528736-001 S / MS	Batch	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 04/24/16 03:34	SU	RROGATE R	ECOVERY S	STUDY	•
	ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chloroocta	ane		95.2	99.9	95	70-135	<u> </u>
			41.3		83	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution



.

### Form 2 - Surrogate Recoveries

Project Name: Cal'AB Launcher

	rders: 52895 h #: 993066	1, Sample: 528736-001 SD / M	1SD Bate	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 04/24/16 04:02	SU	RROGATE R	ECOVERY	STUDY	
	трн е	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroo	ctane		100	99.7	100	70-135	
o-Terphen			44.5	49.9	89	70-135	

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- \* Surrogate outside of Laboratory QC limits
   \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis
- \*\*\* Poor recoveries due to dilution

.

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.

.





Project Name: Cal AB Launcher

**BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Analyzed: 04/29/2016 Control Limits %R Matrix: Solid Project ID: RPD % Blk. Spk Dup. %R [G] Duplicate Result |F] Blank Spike Spike Added Ε Blank Spike %R Q Date Prepared: 04/28/2016 Blank Spike Result ũ Batch #: 1 Spike Added В Sample Result Blank ≤ Sample: 708288-1-BKS Inorganic Anions by EPA 300/300.1 Work Order #: 528951 Lab Batch ID: 993436 m<u>e</u>/kg MNR Analytes Analyst: Units:

Control

Flag %RPD Limits 20 **BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY** Date Analyzed: 04/24/2016 90-110 Matrix: Solid 0 97 48.5 50.0 97 Date Prepared: 04/23/2016 48.7 Batch #: ] 50.0 2.00 Sample: 708099-1-BKS Lab Batch ID: 993066 mg/kg ARM Chloride Analyst: Units:

									1		
TPH Bv SW8015B Mod	Blank	Spike	Blank	Blank	Spike	Blank	BIk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	<u>[v]</u>		Result	%R		Duplicate	%R	%	%R	%RPD	
Analytes		B	<u>[</u> ]	<u>a</u>	E	Result [F]	<u>5</u>				
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	916	92	1000	803	80	13	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	967	26	1000	843	84	14	70-135	35	_

Relative Percent Difference RPD = 200\*((C-F)/(C+F)) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[F] All results are based on MDL and Validated for QC Purposes Page 9 of 14



### Form 3 - MS Recoveries



Project Name: Cal AB Launcher

 Work Order #:
 528951

 Lab Batch #:
 993436

 Date Analyzed:
 04/29/2016

QC- Sample ID: 528951-002 S

Date Prepared: 04/28/2016 Batch #: 1 Analyst: MNR

Project ID:

Matrix: Soil

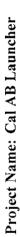
Reporting Units: mg/kg	MATI	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes		[]				
Chloride	629	1000	1610	98	80-120	

 $\label{eq:matrix_spike} \begin{array}{l} \mbox{Matrix Spike Percent Recovery } [D] = 100^{+}(C\text{-A})/B \\ \mbox{Relative Percent Difference } [E] = 200^{+}(C\text{-A})/(C\text{+B}) \\ \mbox{Ali Results are based on MDL and Validated for QC Purposes} \end{array}$ 

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries





Spike Samp	Spiked Sample Spike Spike Result Samp	Spike	Parent Sample	TPH By SW8015B Mod	
E / M/	MATRIN SPIKE / MA	N		mg/kg	Reporting Units:
,	016	04/23/2	Date Prepared: 04/23/2016	04/24/2016	Date Analyzed:
	-001 S	528736	QC- Sample ID: 528736-001 S	993066	Lab Batch ID:
				528951	Work Order # :

Project ID: Matrix: Soil

Batch #: 1 1 Analyst: ARM SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod	Parent Sample		Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]		%R [D]	Added [E]	Result [F]	%R [G]	%	%К	%RPD	
C6-C10 Gasoline Range Hydrocarbons	<15.0	666	770	11	266	795	80	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	21.6	666	819	80	766	875	86	2	70-135	35	

.

Matrix Spike Percent Recovery [D] = 100\*(C-A)B Relative Percent Difference RPD = 200\*[(C-F)/(C+F)]

Matrix Spike Duplicate Percent Recovery  $[G] = 100^{\circ}(F-A)/F$ 

.

ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked. Final 1.000

Page 11 of 14



### Sample Duplicate Recovery



### Project Name: Cal AB Launcher

Work Order #: 528951

Lab Batch #:         993436           Date Analyzed:         04/29/2016 13:47         Date           QC- Sample ID:         528951-002 D         Date	ate Prepared: 04/28/201 Batch #: 1	6 Ana	Project l lyst: MNR trix: Soil		
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Inorganic Anions by EPA 300/300	).1 Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	629	621	l	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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S 289 A T is project specific. Fevel III and IV data. Fevel III and IV data. A T is project specific. S 289 S 280 S 280	Company-City	יאנושעוצטפונז ר	5332, Blackberry Drive, San Antonio, TX 78238	, TX 782.		210-509-33	334		2 2	600 We£	it )-20 Ee	12600 West I-20 East, Odessa, TX 79765	ssa. TX	79765	432-5	432-563-1800		Serial #:		<u>330850</u>	J C	Pag	_	7	ſ
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to (Initials and Sign) Date & Time Trotal Containers p Cold M.00 4-33-1/ Otherwise agreed 4-23-1/ Otherwise agreed 4-23-1/ Otherwise agreed 4-23-1/ Otherwise agreed bereby requested. Bag (B). Various (V), Other Cont. Type: Cont. Type:							┝╼┾				┝╶┨		┞─┼		┝─┼		-		_		-		ł		
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1) Phylol An Murrier       QL       V/21/L       I2, 00       Z       Kn L/L       L       Difference       Quinting agreed         3) Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1)       Action (1) <td>Relinquished by</td> <td>id Sign)</td> <td>Date &amp; Tin</td> <td>-   _</td> <td></td> <td>Iquishe</td> <td>12</td> <td>tials an</td> <td>d Sign</td> <td>╡</td> <td></td> <td>_                </td> <td>-  @</td> <td></td> <td>Contai</td> <td>ners peu</td> <td></td> <td></td> <td><math>\frac{1}{1}</math></td> <td></td> <td>er Ten</td> <td></td> <td>2</td> <td></td> <td></td>	Relinquished by	id Sign)	Date & Tin	-   _		Iquishe	12	tials an	d Sign	╡		_               	-  @		Contai	ners peu			$\frac{1}{1}$		er Ten		2		
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c Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA),S Bag (B), Various (V), Other Cont. Type:	[	t i	alleek	5		A A A				1	1	3	34	heret	paid, o. y reque	amples ssted. R	wiii ue ush Ch	arges a	nd Coll	ection F	ees an	e pre-a	percred	li neet	ed.
Committed to Eurolismon in Convinsion and Overline	Preservatives: Various (V), HC Cont. Size: 4oz (4), 8oz (8), 3;	1 pH<2 (H), H; 2oz (32), 40m	2SO4 pH<2 (S	), HNO	3 pH<2	(N), A(	sbc Acic	SNaOF	(A), Zi	Ac&Nc	Z) HO	) (Coo	ri, <4C	<u>(</u> )	None (	NA) Se	e Labe	(L).	Other ( ). Glas	s Cle	r (C),	Plastic	( <b>e</b> )	arious	12
	Matrix: Air (A), Product (P), So	lid (S), Water	(W), Liquid (L)		-		í	mmit	ed to	Excel	lence	in Se	anvice	pue (	Oual	liv .		•		ν /Ε-Ω	:	<b>MVDI</b>	w, xer	0.00	Б

PEOLIEST & CHAIN OF CUSTODY RECORD



### **XENCO** Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Talon LPE Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 04/22/2016 03:58:28 PM Temperature Measuring device used : R8 Work Order #: 528951 Sample Receipt Checklist Comments #1 \*Temperature of cooler(s)? 4.1 #2 \*Shipping container in good condition? N/A #3 \*Samples received on ice? Yes #4 \*Custody Seal present on shipping container/ cooler? N/A #5 \*Custody Seals intact on shipping container/ cooler? N/A #6 Custody Seals intact on sample bottles? N/A #7 \*Custody Seals Signed and dated? N/A #8 \*Chain of Custody present? Yes #9 Sample instructions complete on Chain of Custody? Yes #10 Any missing/extra samples? No #11 Chain of Custody signed when relinquished/ received? Yes #12 Chain of Custody agrees with sample label(s)? Yes #13 Container label(s) legible and intact? Yes #14 Sample matrix/ properties agree with Chain of Custody? Yes #15 Samples in proper container/ bottle? Yes #16 Samples properly preserved? Yes #17 Sample container(s) intact? Yes #18 Sufficient sample amount for indicated test(s)? Yes #19 All samples received within hold time? Yes #20 Subcontract of sample(s)? No #21 VOC samples have zero headspace (less than 1/4 inch bubble)? N/A #22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for N/A samples for the analysis of HEM or HEM-SGT which are verified by the analysts. #23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH? N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Mary Alexis Negron Mary Negron Checklist reviewed by: Mary Noghoah

Date: 04/22/2016

elsev Brook

Date: 04/22/2016