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,

Kelsey Brooks
Project Manager

Sample Cross Reference 527665

Talon LPE, Artesia, NM

Cal AB Launcher

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1 1'	S	03-30-16 13:04	- 1 ft	527665-001
C-2 1'	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 1'	S	03-30-16 13:23	- 1 ft	527665-007

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.

Certificate of Analysis Summary 527665

Talon LPE, Artesia, NM

Project Name: Cal AB Launcher

Project Id:

Contact: Sheldon Hitckcock

Project Location: NM

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

Report Date: 06-APR-16

Project Manager: Kelsey Brooks

Analysis Requested													
	Lab Id:	527665-001		527665-002		527665-003		527665-004		527665-005		527665-006	
	Field Id:	C-1 1'		C-2 1'		C-3 1'		C-4 1'		C-5 1'		C-6 1'	
	Depth:	-1 ft		-1 ft		-1 ft		-1 ft		-1 ft		-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	
TCLP Mercury by SW 7470A SUB: E871002	***Extracted:***	Apr-05-16 12:10		Apr-05-16 12:10		Apr-05-16 12:10		Apr-05-16 12:10		Apr-05-16 12:10		Apr-05-16 12:10	
	Analyzed:	Apr-05-16 15:48		Apr-05-16 15:52		Apr-05-16 15:53		Apr-05-16 15:55		Apr-05-16 15:59		Apr-05-16 16:00	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Mercury		ND	0.000200	ND	0.000200	ND	0.000200	ND	0.000200	ND	0.000200	ND	0.000200
TCLP Metals by SW846 6010B SUB: E871002	***Extracted:***	Apr-05-16 11:30		Apr-05-16 11:30		Apr-05-16 11:30		Apr-05-16 11:30		Apr-05-16 11:30		Apr-05-16 11:30	
	Analyzed:	Apr-05-16 17:05		Apr-05-16 17:19		Apr-05-16 17:24		Apr-05-16 17:29		Apr-05-16 17:42		Apr-05-16 17:47	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Arsenic		ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	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		ND	0.0250	ND	0.0250	ND	0.0250	ND	0.0250	ND	0.0250	ND	0.0250
Chromium		ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500
Lead		ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500	ND	0.0500
Selenium		ND	0.100	ND	0.100	ND	0.100	ND	0.100	ND	0.100	ND	0.100
Silver		ND	0.100	ND	0.100	ND	0.100	ND	0.100	ND	0.100	ND	0.100

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 527665

Talon LPE, Artesia, NM

Project Name: Cal AB Launcher

Project Id:
Contact: Sheldon Hitckcock
Project Location: NM

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

Analysis Requested		527665-001		527665-002		527665-003		527665-004		527665-005		527665-006	
	Field Id:	C-1 1'		C-2 1'		C-3 1'		C-4 1'		C-5 1'		C-6 1'	
	Depth:	1 ft		1 ft		1 ft		1 ft		1 ft		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
Toluene		ND	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00199	ND	0.00200
Ethylbenzene		0.00329	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00199	ND	0.00200
m,p-Xylenes		0.00410	0.00200	ND	0.00200	ND	0.00198	ND	0.00200	ND	0.00199	ND	0.00200
o-Xylene		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	ND	15.0	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

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 527665

Talon LPE, Artesia, NM

Project Name: Cal AB Launcher

Project Id:
Contact: Sheldon Hitckcock
Project Location: NM

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

Analysis Requested							
	Lab Id:	527665-007					
	Field Id:	C-7 1'					
	Depth:	-1 ft					
	Matrix:	SOIL					
	Sampled:	Mar-30-16 13:23					
TCLP Mercury by SW 7470A SUB: E871002	***Extracted:***	Apr-05-16 12:10					
	Analyzed:	Apr-05-16 16:02					
	Units/RL:	mg/L RL					
Mercury		ND 0.000200					
TCLP Metals by SW846 6010B SUB: E871002	***Extracted:***	Apr-05-16 11:30					
	Analyzed:	Apr-05-16 17:52					
	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					
Selenium		ND 0.100					
Silver		ND 0.100					

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 527665

Talon LPE, Artesia, NM

Project Name: Cal AB Launcher

Project Id:
Contact: Sheldon Hitckcock
Project Location: NM

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

Analysis Requested							
	Lab Id:	527665-007					
	Field Id:	C-7 1'					
	Depth:	1 ft					
	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		ND	0.00198				
m,p-Xylenes		ND	0.00198				
o-Xylene		ND	0.00298				
Total Xylenes		ND	0.00198				
Total BTEX		ND	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:	mg/kg	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				

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

	Phone	Fax
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	

Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

Work Orders : 527665,

Project ID:

Lab Batch #: 991555 **Sample:** 527665-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 14:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 991555 **Sample:** 527665-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 14:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 991555 **Sample:** 527665-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 14:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0353	0.0300	118	80-120	

Lab Batch #: 991555 **Sample:** 527665-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 14:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 991555 **Sample:** 527665-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 15:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	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.

Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

Work Orders : 527665,

Project ID:

Lab Batch #: 991555 **Sample:** 527665-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 15:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0281	0.0300	94	80-120	

Lab Batch #: 991555 **Sample:** 527665-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 15:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 991537 **Sample:** 527665-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 17:32

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.8	110	70-135	
o-Terphenyl	52.7	49.9	106	70-135	

Lab Batch #: 991537 **Sample:** 527665-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 18:41

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.8	99.6	99	70-135	
o-Terphenyl	46.6	49.8	94	70-135	

Lab Batch #: 991537 **Sample:** 527665-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 19:03

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	49.2	49.9	99	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.

Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

Work Orders : 527665,

Project ID:

Lab Batch #: 991537 **Sample:** 527665-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 19:25

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.6	102	70-135	
o-Terphenyl	48.9	49.8	98	70-135	

Lab Batch #: 991537 **Sample:** 527665-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 19:47

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.8	106	70-135	
o-Terphenyl	52.0	49.9	104	70-135	

Lab Batch #: 991537 **Sample:** 527665-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 20:09

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	50.8	49.9	102	70-135	

Lab Batch #: 991537 **Sample:** 527665-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 20:32

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	48.4	49.9	97	70-135	

Lab Batch #: 991555 **Sample:** 707193-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/16 13:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0266	0.0300	89	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.

Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

Work Orders : 527665,

Project ID:

Lab Batch #: 991537 **Sample:** 707182-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/16 16:22

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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

Units: mg/kg **Date Analyzed:** 03/31/16 12:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/16 16:46

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	51.2	50.0	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

BTEX by EPA 8021B

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 991537 **Sample:** 707182-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 03/31/16 17:10

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod

Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
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.

Form 2 - Surrogate Recoveries

Project Name: Cal AB Launcher

Work Orders : 527665,

Project ID:

Lab Batch #: 991555 **Sample:** 527665-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 13:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 991537 **Sample:** 527665-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 17:54

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	99.9	125	70-135	
o-Terphenyl	51.9	50.0	104	70-135	

Lab Batch #: 991555 **Sample:** 527665-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 13:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 991537 **Sample:** 527665-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 03/31/16 18:17

SURROGATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	99.9	128	70-135	
o-Terphenyl	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.

BS / BSD Recoveries

Project Name: Cal AB Launcher

Work Order #: 527665 **Project ID:**

Analyst: PJB **Date Prepared:** 03/31/2016 **Date Analyzed:** 03/31/2016

Lab Batch ID: 991555 **Sample:** 707193-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.0932	93	0.100	0.0890	89	5	70-130	35	
Toluene	<0.00200	0.100	0.0944	94	0.100	0.0916	92	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.105	105	0.100	0.101	101	4	71-129	35	
m,p-Xylenes	<0.00200	0.200	0.204	102	0.200	0.197	99	3	70-135	35	
o-Xylene	<0.00300	0.100	0.0976	98	0.100	0.0946	95	3	71-133	35	

Analyst: MNR **Date Prepared:** 04/03/2016 **Date Analyzed:** 04/04/2016

Lab Batch ID: 991677 **Sample:** 707259-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<2.00	50.0	53.3	107	50.0	50.6	101	5	90-110	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

BS / BSD Recoveries

Project Name: Cal AB Launcher

Work Order #: 527665 **Project ID:**

Analyst: BHRE **Date Prepared:** 04/05/2016 **Date Analyzed:** 04/05/2016

Lab Batch ID: 991786 **Sample:** 707323-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.000200	0.00200	0.00190	95	0.00200	0.00222	111	16	80-120	20	

Analyst: BHRE **Date Prepared:** 04/05/2016 **Date Analyzed:** 04/05/2016

Lab Batch ID: 991790 **Sample:** 707325-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.0100	1.00	0.971	97	1.00	0.978	98	1	80-120	20	
Barium	<0.0100	1.00	0.935	94	1.00	0.940	94	1	80-120	20	
Cadmium	<0.00500	1.00	0.946	95	1.00	0.950	95	0	80-120	20	
Chromium	<0.0100	1.00	1.04	104	1.00	1.05	105	1	80-120	20	
Lead	<0.0100	1.00	0.996	100	1.00	0.998	100	0	80-120	20	
Selenium	<0.0200	1.00	0.972	97	1.00	0.977	98	1	80-120	20	
Silver	<0.0200	0.500	0.580	116	0.500	0.583	117	1	80-120	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

BS / BSD Recoveries

Project Name: Cal AB Launcher

Work Order #: 527665 **Project ID:**

Analyst: ARM **Date Prepared:** 03/31/2016 **Date Analyzed:** 03/31/2016

Lab Batch ID: 991537 **Sample:** 707182-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	844	84	1000	828	83	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	934	93	1000	866	87	8	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

Project Name: Cal AB Launcher

Work Order #: 527665

Lab Batch #: 991677 **Project ID:**

Date Analyzed: 04/04/2016 **Date Prepared:** 04/03/2016 **Analyst:** MNR

QC- Sample ID: 527809-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	MATRIX / MATRIX SPIKE RECOVERY STUDY					
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	734	2500	3380	106	80-120	

Lab Batch #: 991677

Date Analyzed: 04/04/2016 **Date Prepared:** 04/04/2016 **Analyst:** MNR

QC- Sample ID: 527822-001 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300 Analytes	MATRIX / MATRIX SPIKE RECOVERY STUDY					
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	1010	2500	3670	106	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

Project Name: Cal AB Launcher

Work Order # : 527665 **Project ID:**

Lab Batch ID: 991555 **QC- Sample ID:** 527665-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2016 **Date Prepared:** 03/31/2016 **Analyst:** PJB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.0998	0.0596	60	0.0992	0.0579	58	3	70-130	35	X
Toluene	<0.00200	0.0998	0.0603	60	0.0992	0.0559	56	8	70-130	35	X
Ethylbenzene	0.00329	0.0998	0.0647	62	0.0992	0.0587	56	10	71-129	35	X
m,p-Xylenes	0.00410	0.200	0.125	60	0.198	0.112	54	11	70-135	35	X
o-Xylene	<0.00299	0.0998	0.0628	63	0.0992	0.0544	55	14	71-133	35	X

Lab Batch ID: 991786 **QC- Sample ID:** 527665-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/05/2016 **Date Prepared:** 04/05/2016 **Analyst:** BHRE

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.000200	0.00200	0.00188	94	0.00200	0.00175	88	7	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

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

Relative Percent Difference RPD = 200*|(C-F)/(C+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.

Form 3 - MS / MSD Recoveries

Project Name: Cal AB Launcher

Work Order # : 527665 **Project ID:**

Lab Batch ID: 991790 **QC- Sample ID:** 527665-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04/05/2016 **Date Prepared:** 04/05/2016 **Analyst:** BHRE

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Metals by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.0500	5.00	5.20	104	5.00	5.24	105	1	80-120	20	
Barium	0.254	5.00	5.05	96	5.00	5.08	97	1	80-120	20	
Cadmium	<0.0250	5.00	4.95	99	5.00	4.98	100	1	80-120	20	
Chromium	<0.0500	5.00	5.34	107	5.00	5.38	108	1	80-120	20	
Lead	<0.0500	5.00	4.96	99	5.00	5.01	100	1	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 **QC- Sample ID:** 527665-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 03/31/2016 **Date Prepared:** 03/31/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015B Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	27.2	999	889	86	999	1010	98	13	70-135	35	
C10-C28 Diesel Range Hydrocarbons	1220	999	2270	105	999	2340	112	3	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.

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

XENCO Laboratories

☐ 4143 Greenbriar Drive, Stafford, TX 77477 **281-240-4200**
☐ 5332, Blackberry Drive, San Antonio, TX 78238 **210-509-3334**
☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**
☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 330849 Page of

Company-City Talon/LPE Artesia, NM	**Phone** 575-748-1288
Project Name-Location Cal AB Launcher ☑ Previously done at XENCO	**Project ID**
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other	**Proj. Manager (PM)** Sheldon Hitchcock
E-mail Results to ☑ PM and shitchcock@talonlpe.com	**Fax No:**
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to: Rachel Johnson - ETP	
Quote/Pricing:	**P.O. No:** ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW **TRRP** QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:	
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)	
Sampler Name Sheldon Hitchcock **Signature** Sheldon Hitchcock	

Lab Only: 527605

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.

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	TPH 8015M	BTEX 8021B	Total Chlorides	TCLP RCRA 8 Metals	TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Addn: Date Rcv. by: From:	
1	C-1 1'	3/30/16	13:04	1	S		X	1	4	C	C										/	/	/	/					1
2	C-2 1'		13:04	1	S		X	1	4	C	C										/	/	/	/					2
3	C-3 1'		13:08	1	S		X	1	4	C	C										/	/	/	/					3
4	C-4 1'		13:12	1	S		X	1	4	C	C										/	/	/	/					4
5	C-5 1'		13:15	1	S		X	1	4	C	C										/	/	/	/					5
6	C-6 1'		13:18	1	S		X	1	4	C	C										/	/	/	/					6
7	C-7 1'		13:23	1	S		X	1	4	C	C										/	/	/	/					7
8																													8
9																													9
10																													10

	Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time
1	1) Sheldon Hitchcock SH	3/30/16 13:33	2) Johnnie Bradford	03/30/2016 13:25
2	3) Johnnie Bradford	3/31/2016 09:42	4)	3/31/16 9:42am
3	5)		6)	

Total Containers per COC:
Otherwise agreed on writing. Reports are C/F:0 until paid. Samples will be held 30 days a
hereby requested. Rush Charges and Collection Fees are pre-approved if needed.

Temp: 2.9 IR ID:R-8
Corrected Temp:

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 (**L**), Other (**O**) _____
Cont. Size: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**40**), 1L (**1**), 500ml (**5**), Tedlar Bag (**B**), Various (**V**), Other _____ **Cont. Type:** Glass Amb (**A**), Glass Clear (**C**), Plastic (**P**), Various (**V**)

Matrix: Air (**A**), Product (**P**), Solid (**S**), Water (**W**), Liquid (**L**)

Committed to Excellence in Service and Quality *www.xenco.com*

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE

Date/ Time Received: 03/31/2016 09:42:00 AM

Work Order #: 527665

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#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 samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	**N/A**
#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: Minerva Rios Date: 03/31/2016

Checklist reviewed by: Kelsey Brooks Date: 03/31/2016