30-025-02424

LEGACY FRAC POND

Analytical Report 423540

for

Legacy Reserves

HOBBS OCD

AUG 0 3 2011

RECEIVED

Project Manager: Pat Darden

Lea Unit # 4 H

03-AUG-11

Collected By: Client

XENCO Laboratories

Celebrating 20 Years of commitment to excellence in Environmental Testing Services

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL01273):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

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)

XENCO Laboratories

03-AUG-11

Project Manager: **Pat Darden**
Legacy Reserves
P.O. Box 10848
Midland, TX 79702

Reference: XENCO Report No: **423540**
Lea Unit # 4 H
Project Address:

Pat Darden:

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 423540. 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. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. 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. 423540 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,

Brent Barron II
Odessa Laboratory Manager

Sample Cross Reference 423540

Legacy Reserves, Midland, TX

Lea Unit # 4 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Marthon Water Station	W	07-19-11 08:00		423540-001

CASE NARRATIVE

XENCO Laboratories

Client Name: Legacy Reserves
Project Name: Lea Unit # 4 H

Project ID:
Work Order Number: 423540

Report Date: 03-AUG-11
Date Received: 07/19/2011

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-864506 Anions by E300
E300MI

Batch 864506, Fluoride, Nitrate as N, Sulfate recovered below QC limits in the Matrix Spike.
Samples affected are: 423540-001.
The Laboratory Control Sample for Nitrate as N, Fluoride, Sulfate is within laboratory Control Limits

The RPD between the Sample and Sample Duplicate was outside of the control limits for Nitrate.
Samples affected are: 423530-001.

Batch: LBA-865730 Select Metals by SW-846 6010C
SW6010C

Batch 865730, Uranium recovered below QC limits in the Matrix Spike.
Samples affected are: 423540-001.
The Laboratory Control Sample for Uranium is within laboratory Control Limits

SW6010C

Batch 865730, Uranium RPD was outside QC limits.
Samples affected are: 423540-001

Batch: LBA-865812 PAHs by GCMS SIM
SIM

Batch 865812, Naphthalene RPD was outside laboratory control limits.
Samples affected are: 423540-001

CASE NARRATIVE

XENCO Laboratories

Client Name: Legacy Reserves
Project Name: Lea Unit # 4 H

Project ID:
Work Order Number: 423540

Report Date: 03-AUG-11
Date Received: 07/19/2011

Batch: LBA-865874 VOAs by SW-846 8260B
SW8260B

Batch 865874, Bromodichloromethane recovered above QC limits in the Matrix Spike. Carbon Tetrachloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Bromoform recovered above QC limits in the Matrix Spike Duplicate.
Samples affected are: 423540-001.
The Laboratory Control Sample for Bromodichloromethane, Carbon Tetrachloride, Bromoform is within laboratory Control Limits

Certificate of Analysis Summary 423540

Legacy Reserves, Midland, TX

Project Name: Lea Unit # 4 H

Project Id:
Contact: Pat Darden
Project Location:

Date Received in Lab: Tue Jul-19-11 10:15 am
Report Date: 03-AUG-11
Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	423540-001						
	Field Id:	Marthon Water Station						
	Depth:							
	Matrix:	WATER						
	Sampled:	Jul-19-11 08:00						
Anions by E300	*Extracted:*							
	Analyzed:	Jul-19-11 16:24						
	Units/RL:	mg/L	RL					
Fluoride		1.17	1.00					
Chloride		23.5	2.50					
Sulfate		40.6	2.50					
Nitrate as N		2.57	0.250					
BTEX by EPA 8021B	*Extracted:*	Jul-21-11 15:00						
	Analyzed:	Jul-22-11 02:49						
	Units/RL:	mg/L	RL					
Benzene		ND	0.00100					
Toluene		ND	0.00200					
Ethylbenzene		ND	0.00100					
m_p-Xylenes		ND	0.00200					
o-Xylene		ND	0.00100					
Total Xylenes		ND	0.00100					
Total BTEX		ND	0.00100					
Mercury by EPA 7470A SUB: E87429	*Extracted:*	Jul-28-11 11:06						
	Analyzed:	Jul-28-11 21:26						
	Units/RL:	mg/L	RL					
Mercury		ND	0.00200					

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Date Received in Lab: Tue Jul-19-11 10:15 am

Report Date: 03-AUG-11

Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	423540-001						
	Field Id:	Marthon Water Station						
	Depth:							
	Matrix:	WATER						
	Sampled:	Jul-19-11 08:00						
Metals, Total by SW846 6010C SUB: E87429	*Extracted:*	Jul-27-11 09:38						
	Analyzed:	Jul-28-11 16:04						
	Units/RL:	mg/L	RL					
Arsenic		ND	0.0100					
Barium		0.0786	0.0500					
Cadmium		ND	0.00500					
Chromium		ND	0.0500					
Lead		ND	0.0100					
Selenium		ND	0.0100					
Silver		ND	0.0500					
Uranium		ND	0.100					

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Project Location:

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Report Date: 03-AUG-11

Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	423540-001						
	Field Id:	Marthon Water Station						
	Depth:							
	Matrix:	WATER						
	Sampled:	Jul-19-11 08:00						
PAHs by GCMS SIM SUB: T104704215-TX	*Extracted:*	Jul-26-11 19:30						
	Analyzed:	Jul-28-11 18:21						
	Units/RL:	ug/L	RL					
Acenaphthene		ND	0.0472					
Acenaphthylene		ND	0.0472					
Anthracene		ND	0.0472					
Benzo(a)anthracene		ND	0.0472					
Benzo(a)pyrene		ND	0.0472					
Benzo(g,h,i)perylene		ND	0.0472					
Benzo(k)fluoranthene		ND	0.0472					
Benzo(b)fluoranthene		ND	0.0472					
Chrysene		ND	0.0472					
Dibenz(a,h)anthracene		ND	0.0472					
Fluoranthene		ND	0.0472					
Fluorene		ND	0.0472					
Indeno(1,2,3-c,d)Pyrene		ND	0.0472					
Naphthalene		ND	0.472					
Phenanthrene		ND	0.0472					
Pyrene		0.0588	0.0472					
TDS by SM2540C	*Extracted:*							
	Analyzed:	Jul-20-11 09:30						
	Units/RL:	mg/L	RL					
Total dissolved solids		294	100					
Total Cyanide by EPA 335.4 SUB: T104704215-TX	*Extracted:*							
	Analyzed:	Jul-29-11 19:16						
	Units/RL:	mg/L	RL					
Cyanide, Total		ND	0.0100					

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Odessa Laboratory Manager

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Project Id:

Contact: Pat Darden

Project Location:

Date Received in Lab: Tue Jul-19-11 10:15 am

Report Date: 03-AUG-11

Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	423540-001						
	Field Id:	Marthon Water Station						
	Depth:							
	Matrix:	WATER						
	Sampled:	Jul-19-11 08:00						
VOAs by SW-846 8260B	***Extracted:***	Jul-28-11 15:01						
SUB: T104704215-TX	***Analyzed:***	Jul-28-11 18:09						
	Units/RL:	mg/L	RL					
1,1,1,2-Tetrachloroethane		ND	0.00500					
1,1,1-Trichloroethane		ND	0.00500					
1,1,2,2-Tetrachloroethane		ND	0.00500					
1,1,2-Trichloroethane		ND	0.00500					
1,1-Dichloroethane		ND	0.00500					
1,1-Dichloroethene		ND	0.00500					
1,1-Dichloropropene		ND	0.00500					
1,2,3-Trichlorobenzene		ND	0.00500					
1,2,3-Trichloropropane		ND	0.00500					
1,2,4-Trichlorobenzene		ND	0.00500					
1,2,4-Trimethylbenzene		ND	0.00500					
1,2-Dibromo-3-Chloropropane		ND	0.00500					
1,2-Dibromoethane		ND	0.00500					
1,2-Dichlorobenzene		ND	0.00500					
1,2-Dichloroethane		ND	0.00500					
1,2-Dichloropropane		ND	0.00500					
1,3,5-Trimethylbenzene		ND	0.00500					
1,3-Dichlorobenzene		ND	0.00500					
1,3-Dichloropropane		ND	0.00500					
1,4-Dichlorobenzene		ND	0.00500					
2,2-Dichloropropane		ND	0.00500					
2-Chlorotoluene		ND	0.00500					
4-Chlorotoluene		ND	0.00500					
Benzene		ND	0.00500					
Bromobenzene		ND	0.00500					

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Project Name: Lea Unit # 4 H

Project Id:

Contact: Pat Darden

Project Location:

Date Received in Lab: Tue Jul-19-11 10:15 am

Report Date: 03-AUG-11

Project Manager: Brent Barron II

Analysis Requested	*Lab Id:*	423540-001					
	Field Id:	Marthon Water Station					
	Depth:						
	Matrix:	WATER					
	Sampled:	Jul-19-11 08:00					
VOAs by SW-846 8260B	*Extracted:*	Jul-28-11 15:01					
SUB: T104704215-TX	*Analyzed:*	Jul-28-11 18:09					
	Units/RL:	mg/L	RL				
Bromochloromethane		ND	0.00500				
Bromodichloromethane		ND	0.00500				
Bromoform		ND	0.00500				
Bromomethane		ND	0.00500				
Carbon Tetrachloride		ND	0.00500				
Chlorobenzene		ND	0.00500				
Chloroethane		ND	0.0100				
Chloroform		ND	0.00500				
Chloromethane		ND	0.0100				
cis-1,2-Dichloroethene		ND	0.00500				
cis-1,3-Dichloropropene		ND	0.00500				
Dibromochloromethane		ND	0.00500				
Dibromomethane		ND	0.00500				
Dichlorodifluoromethane		ND	0.00500				
Ethylbenzene		ND	0.00500				
Hexachlorobutadiene		ND	0.00500				
isopropylbenzene		ND	0.00500				
m,p-Xylenes		ND	0.0100				
Methylene Chloride		ND	0.00500				
MTBE		ND	0.00500				
Naphthalene		ND	0.0100				
n-Butylbenzene		ND	0.00500				
n-Propylbenzene		ND	0.00500				
o-Xylene		ND	0.00500				
p-Cymene (p-Isopropyltoluene)		ND	0.00500				

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Project Id:

Contact: Pat Darden

Project Location:

Date Received in Lab: Tue Jul-19-11 10:15 am

Report Date: 03-AUG-11

Project Manager: Brent Barron II

Analysis Requested								
	Lab Id:	423540-001						
	Field Id:	Marthon Water Station						
	Depth:							
	Matrix:	WATER						
	Sampled:	Jul-19-11 08:00						
VOAs by SW-846 8260B SUB: T104704215-TX	*Extracted:*	Jul-28-11 15:01						
	Analyzed:	Jul-28-11 18:09						
	Units/RL:	mg/L	RL					
Sec-Butylbenzene		ND	0.00500					
Styrene		ND	0.00500					
tert-Butylbenzene		ND	0.00500					
Tetrachloroethylene		ND	0.00500					
Toluene		ND	0.00500					
trans-1,2-dichloroethene		ND	0.00500					
trans-1,3-dichloropropene		ND	0.00500					
Trichloroethene		ND	0.00500					
Trichlorofluoromethane		ND	0.00500					
Vinyl Chloride		ND	0.00200					
pH, Electrometric by EPA 150.2	*Extracted:*							
	Analyzed:	Jul-19-11 13:00						
	Units/RL:	SU	RL					
pH		7.48	2.00					

Brent Barron II
Odessa Laboratory Manager

XENCO Laboratories

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 quantiation 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.

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

+ Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lea Unit # 4 H

Work Orders : 423540,

Project ID:

Lab Batch #: 864919 **Sample:** 423540-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/22/11 02:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 865874 **Sample:** 423540-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/28/11 18:09

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0522	0.0500	104	74-124	
Dibromofluoromethane	0.0507	0.0500	101	75-131	
1,2-Dichloroethane-D4	0.0492	0.0500	98	63-144	
Toluene-D8	0.0484	0.0500	97	80-117	

Lab Batch #: 865812 **Sample:** 423540-001 / SMP **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 07/28/11 18:21

PAHs by GCMS SIM Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.32	0.943	140	33-141	
2-Fluorobiphenyl	1.03	0.943	109	43-116	
Nitrobenzene-d5	0.981	0.943	104	35-114	
2,4,6-Tribromophenol	0.369	0.943	39	10-123	

Lab Batch #: 864919 **Sample:** 608522-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/22/11 00:56

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0286	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

Surrogate Recovery [D] = 100 * A / B

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

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lea Unit # 4 H

Work Orders : 423540,

Project ID:

Lab Batch #: 865874 **Sample:** 609051-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/28/11 13:13

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0500	0.0500	100	74-124	
Dibromofluoromethane	0.0498	0.0500	100	75-131	
1,2-Dichloroethane-D4	0.0455	0.0500	91	63-144	
Toluene-D8	0.0526	0.0500	105	80-117	

Lab Batch #: 865812 **Sample:** 608796-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 07/28/11 17:12

PAHs by GCMS SIM Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.750	1.00	75	33-141	
2-Fluorobiphenyl	0.596	1.00	60	43-116	
Nitrobenzene-d5	0.627	1.00	63	35-114	
2,4,6-Tribromophenol	0.204	1.00	20	10-123	

Lab Batch #: 864919 **Sample:** 608522-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/21/11 23:25

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 865874 **Sample:** 609051-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/28/11 12:04

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0522	0.0500	104	74-124	
Dibromofluoromethane	0.0522	0.0500	104	75-131	
1,2-Dichloroethane-D4	0.0456	0.0500	91	63-144	
Toluene-D8	0.0525	0.0500	105	80-117	

* 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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lea Unit # 4 H

Work Orders : 423540,

Project ID:

Lab Batch #: 865812 **Sample:** 608796-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 07/28/11 17:35

PAHs by GCMS SIM Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	1.01	1.00	101	33-141	
2-Fluorobiphenyl	0.825	1.00	83	43-116	
Nitrobenzene-d5	0.882	1.00	88	35-114	
2,4,6-Tribromophenol	0.400	1.00	40	10-123	

Lab Batch #: 864919 **Sample:** 608522-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/21/11 23:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY 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	0.0299	0.0300	100	80-120	

Lab Batch #: 865812 **Sample:** 608796-1-BSD / BSD **Batch:** 1 **Matrix:** Water

Units: ug/L **Date Analyzed:** 07/28/11 17:58

PAHs by GCMS SIM Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Terphenyl-D14	0.957	1.00	96	33-141	
2-Fluorobiphenyl	0.551	1.00	55	43-116	
Nitrobenzene-d5	0.437	1.00	44	35-114	
2,4,6-Tribromophenol	0.332	1.00	33	10-123	

Lab Batch #: 864919 **Sample:** 423423-018 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/22/11 05:05

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY 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	0.0327	0.0300	109	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.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Lea Unit # 4 H

Work Orders : 423540,

Project ID:

Lab Batch #: 865874 **Sample:** 423540-001 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/28/11 18:32

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0479	0.0500	96	74-124	
Dibromofluoromethane	0.0511	0.0500	102	75-131	
1,2-Dichloroethane-D4	0.0456	0.0500	91	63-144	
Toluene-D8	0.0508	0.0500	102	80-117	

Lab Batch #: 864919 **Sample:** 423423-018 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/22/11 05:28

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

Lab Batch #: 865874 **Sample:** 423540-001 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L **Date Analyzed:** 07/28/11 18:55

VOAs by SW-846 8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0489	0.0500	98	74-124	
Dibromofluoromethane	0.0550	0.0500	110	75-131	
1,2-Dichloroethane-D4	0.0463	0.0500	93	63-144	
Toluene-D8	0.0548	0.0500	110	80-117	

* 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.

XENCO Laboratories

Blank Spike Recovery

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Lab Batch #: 865929 **Sample:** 865929-1-BKS **Matrix:** Water

Date Analyzed: 07/29/2011 **Date Prepared:** 07/29/2011 **Analyst:** MAB

Reporting Units: mg/L **Batch #:** 1

		BLANK /BLANK SPIKE RECOVERY STUDY				
Total Cyanide by EPA 335.4 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Cyanide, Total	<0.0100	0.200	0.221	111	80-120	

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

XENCO Laboratories

Blank Spike Recovery

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Lab Batch #: 865874 **Sample:** 609051-1-BKS **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** CYE

Reporting Units: mg/L **Batch #:** 1

VOAs by SW-846 8260B Analytes	Blank Result [A]	BLANK /BLANK SPIKE RECOVERY STUDY Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0437	87	75-125	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0599	120	75-125	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0514	103	50-130	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0518	104	75-127	
1,1-Dichloroethane	<0.00500	0.0500	0.0592	118	60-130	
1,1-Dichloroethene	<0.00500	0.0500	0.0582	116	59-172	
1,1-Dichloropropene	<0.00500	0.0500	0.0566	113	75-125	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0509	102	75-137	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0525	105	75-125	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0501	100	75-135	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0536	107	75-125	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0445	89	59-125	
1,2-Dibromoethane	<0.00500	0.0500	0.0500	100	73-125	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0498	100	75-125	
1,2-Dichloroethane	<0.00500	0.0500	0.0547	109	68-127	
1,2-Dichloropropane	<0.00500	0.0500	0.0543	109	74-125	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0547	109	70-125	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0503	101	75-125	
1,3-Dichloropropane	<0.00500	0.0500	0.0500	100	75-125	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0499	100	75-125	
2,2-Dichloropropane	<0.00500	0.0500	0.0687	137	60-140	
2-Chlorotoluene	<0.00500	0.0500	0.0527	105	73-125	
4-Chlorotoluene	<0.00500	0.0500	0.0511	102	74-125	
Benzene	<0.00500	0.0500	0.0533	107	66-142	
Bromobenzene	<0.00500	0.0500	0.0516	103	60-130	
Bromochloromethane	<0.00500	0.0500	0.0546	109	73-125	
Bromodichloromethane	<0.00500	0.0500	0.0568	114	75-125	
Bromoform	<0.00500	0.0500	0.0424	85	75-125	
Bromomethane	<0.00500	0.0500	0.0437	87	70-130	
Carbon Tetrachloride	<0.00500	0.0500	0.0615	123	62-125	
Chlorobenzene	<0.00500	0.0500	0.0516	103	60-133	
Chloroethane	<0.0100	0.0500	0.0462	92	70-130	
Chloroform	<0.00500	0.0500	0.0560	112	74-125	

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

XENCO Laboratories

Blank Spike Recovery

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Lab Batch #: 865874 **Sample:** 609051-1-BKS **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** CYE

Reporting Units: mg/L **Batch #:** 1

		BLANK /BLANK SPIKE RECOVERY STUDY				
VOAs by SW-846 8260B **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloromethane	<0.0100	0.0500	0.0448	90	70-130	
cis-1,2-Dichloroethene	<0.00500	0.0500	0.0550	110	60-130	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0553	111	60-140	
Dibromochloromethane	<0.00500	0.0500	0.0394	79	60-130	
Dibromomethane	<0.00500	0.0500	0.0528	106	69-127	
Dichlorodifluoromethane	<0.00500	0.0500	0.0509	102	70-130	
Ethylbenzene	<0.00500	0.0500	0.0507	101	75-125	
Hexachlorobutadiene	<0.00500	0.0500	0.0466	93	75-125	
isopropylbenzene	<0.00500	0.0500	0.0535	107	75-125	
m,p-Xylenes	<0.0100	0.100	0.0974	97	75-125	
Methylene Chloride	<0.00500	0.0500	0.0511	102	75-125	
MTBE	<0.00500	0.0500	0.0562	112	75-125	
Naphthalene	<0.0100	0.0500	0.0474	95	65-135	
n-Butylbenzene	<0.00500	0.0500	0.0519	104	75-125	
n-Propylbenzene	<0.00500	0.0500	0.0511	102	75-125	
o-Xylene	<0.00500	0.0500	0.0533	107	75-125	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0534	107	75-125	
Sec-Butylbenzene	<0.00500	0.0500	0.0543	109	75-125	
Styrene	<0.00500	0.0500	0.0517	103	60-130	
tert-Butylbenzene	<0.00500	0.0500	0.0574	115	75-125	
Tetrachloroethylene	<0.00500	0.0500	0.0528	106	60-130	
Toluene	<0.00500	0.0500	0.0525	105	59-139	
trans-1,2-dichloroethene	<0.00500	0.0500	0.0527	105	60-130	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0518	104	66-125	
Trichloroethene	<0.00500	0.0500	0.0541	108	62-137	
Trichlorofluoromethane	<0.00500	0.0500	0.0557	111	67-125	
Vinyl Chloride	<0.00200	0.0500	0.0477	95	75-125	

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

BS / BSD Recoveries

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Analyst: ASA **Date Prepared:** 07/21/2011 **Date Analyzed:** 07/21/2011

Lab Batch ID: 864919 **Sample:** 608522-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

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	<0.00100	0.100	0.102	102	0.100	0.101	101	1	70-125	25	
Toluene	<0.00200	0.100	0.0947	95	0.100	0.0928	93	2	70-125	25	
Ethylbenzene	<0.00100	0.100	0.105	105	0.100	0.101	101	4	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.203	102	0.200	0.194	97	5	70-131	25	
o-Xylene	<0.00100	0.100	0.103	103	0.100	0.0964	96	7	71-133	25	

Analyst: BRB **Date Prepared:** 07/19/2011 **Date Analyzed:** 07/19/2011

Lab Batch ID: 864506 **Sample:** 864506-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300 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
Fluoride	<0.200	2.00	2.08	104	2.00	2.19	110	5	80-120	20	
Chloride	<0.500	10.0	10.3	103	10.0	10.5	105	2	80-120	20	
Sulfate	<0.500	12.3	11.7	95	12.3	11.9	97	2	80-120	20	
Nitrate as N	<0.0500	2.00	2.00	100	2.00	2.02	101	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: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Analyst: 4150 **Date Prepared:** 07/28/2011 **Date Analyzed:** 07/28/2011

Lab Batch ID: 865764 **Sample:** 608964-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Mercury by EPA 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	<0.00200	0.00300	0.00324	108	0.00300	0.00326	109	1	75-125	20	

Analyst: 4150 **Date Prepared:** 07/27/2011 **Date Analyzed:** 07/28/2011

Lab Batch ID: 865730 **Sample:** 608817-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Metals, Total by SW846 6010C 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	1.02	102	1.00	1.01	101	1	80-120	20	
Barium	<0.0500	1.00	0.984	98	1.00	0.976	98	1	80-120	20	
Cadmium	<0.00500	1.00	0.977	98	1.00	0.972	97	1	80-120	20	
Chromium	<0.0500	1.00	0.966	97	1.00	0.964	96	0	80-120	20	
Lead	<0.0100	1.00	0.967	97	1.00	0.957	96	1	80-120	20	
Selenium	<0.0100	1.00	1.01	101	1.00	1.01	101	0	80-120	20	
Silver	<0.0500	1.00	0.940	94	1.00	0.934	93	1	80-120	20	
Uranium	<0.100	1.00	0.986	99	1.00	1.01	101	2	85-120	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

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BS / BSD Recoveries

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Analyst: WEW **Date Prepared:** 07/26/2011 **Date Analyzed:** 07/28/2011

Lab Batch ID: 865812 **Sample:** 608796-1-BKS **Batch #:** 1 **Matrix:** Water

Units: ug/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

PAHs by GCMS SIM 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
Acenaphthene	<0.0500	1.00	0.779	78	1.00	0.638	64	20	27-132	25	
Acenaphthylene	<0.0500	1.00	0.769	77	1.00	0.651	65	17	46-108	25	
Anthracene	<0.0500	1.00	0.757	76	1.00	0.739	74	2	47-145	25	
Benzo(a)anthracene	<0.0500	1.00	0.705	71	1.00	0.636	64	10	33-143	25	
Benzo(a)pyrene	<0.0500	1.00	0.755	76	1.00	0.762	76	1	65-135	25	
Benzo(g,h,i)perylene	<0.0500	1.00	0.844	84	1.00	0.801	80	5	65-135	25	
Benzo(k)fluoranthene	<0.0500	1.00	0.954	95	1.00	0.925	93	3	25-125	25	
Benzo(b)fluoranthene	<0.0500	1.00	0.587	59	1.00	0.564	56	4	24-159	25	
Chrysene	<0.0500	1.00	0.930	93	1.00	0.967	97	4	65-135	25	
Dibenz(a,h)anthracene	<0.0500	1.00	0.781	78	1.00	0.732	73	6	50-125	25	
Fluoranthene	<0.0500	1.00	0.736	74	1.00	0.702	70	5	47-125	25	
Fluorene	<0.0500	1.00	0.788	79	1.00	0.701	70	12	48-139	25	
Indeno(1,2,3-c,d)Pyrene	<0.0500	1.00	0.814	81	1.00	0.759	76	7	27-160	25	
Naphthalene	<0.500	1.00	0.866	87	1.00	0.422	42	69	26-175	25	F
Phenanthrene	<0.0500	1.00	0.721	72	1.00	0.692	69	4	65-135	25	
Pyrene	<0.0500	1.00	0.914	91	1.00	0.884	88	3	23-152	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

XENCO Laboratories

BS / BSD Recoveries

Project Name: Lea Unit # 4 H

Work Order #: 423540 **Project ID:**

Analyst: WRU **Date Prepared:** 07/20/2011 **Date Analyzed:** 07/20/2011

Lab Batch ID: 864762 **Sample:** 864762-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C 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
Total dissolved solids	<5.00	1000	924	92	1000	950	95	3	80-120	30	

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

Project Name: Lea Unit # 4 H

Work Order #: 423540
Lab Batch #: 864506 **Project ID:**
Date Analyzed: 07/19/2011 **Date Prepared:** 07/19/2011 **Analyst:** BRB
QC- Sample ID: 423530-001 S **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Fluoride	<10.0	100	60.7	61	80-120	X
Chloride	626	500	1140	103	80-120	
Sulfate	1080	500	1330	50	80-120	X
Nitrate as N	6.70	100	53.1	46	80-120	X

Lab Batch #: 865929
Date Analyzed: 07/29/2011 **Date Prepared:** 07/29/2011 **Analyst:** MAB
QC- Sample ID: 423540-001 S **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Total Cyanide by EPA 335.4	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Cyanide, Total	<0.0100	0.200	0.216	108	80-120	

Lab Batch #: 865929
Date Analyzed: 07/29/2011 **Date Prepared:** 07/29/2011 **Analyst:** MAB
QC- Sample ID: 424561-001 S **Batch #:** 1 **Matrix:** Ground Water
Reporting Units: mg/L

Total Cyanide by EPA 335.4	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Cyanide, Total	<0.0100	0.200	0.218	109	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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Lea Unit # 4 H

Work Order # : 423540 **Project ID:**

Lab Batch ID: 864919 **QC- Sample ID:** 423423-018 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/22/2011 **Date Prepared:** 07/21/2011 **Analyst:** ASA

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	<0.00100	0.100	0.0992	99	0.100	0.107	107	8	70-125	25	
Toluene	<0.00200	0.100	0.0914	91	0.100	0.0987	99	8	70-125	25	
Ethylbenzene	<0.00100	0.100	0.0994	99	0.100	0.107	107	7	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.189	95	0.200	0.203	102	7	70-131	25	
o-Xylene	<0.00100	0.100	0.0984	98	0.100	0.104	104	6	71-133	25	

Lab Batch ID: 865764 **QC- Sample ID:** 424182-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** 4150

Reporting Units: mg/L

Mercury by EPA 7470A Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	<0.00200	0.00300	0.00320	107	0.00300	0.00320	107	0	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Lea Unit # 4 H

Work Order # : 423540 **Project ID:**

Lab Batch ID: 865730 **QC- Sample ID:** 424182-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/27/2011 **Analyst:** 4150

Reporting Units: mg/L

Metals, Total by SW846 6010C Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	<0.0100	1.00	1.01	101	1.00	1.01	101	0	80-120	20	
Barium	<0.0500	1.00	0.967	97	1.00	0.967	97	0	80-120	20	
Cadmium	<0.00500	1.00	0.954	95	1.00	0.950	95	0	80-120	20	
Chromium	<0.0500	1.00	0.954	95	1.00	0.954	95	0	80-120	20	
Lead	<0.0100	1.00	0.944	94	1.00	0.940	94	0	80-120	20	
Selenium	<0.0100	1.00	1.01	101	1.00	0.990	99	2	80-120	20	
Silver	<0.0500	1.00	0.929	93	1.00	0.927	93	0	80-120	20	
Uranium	<0.100	500	1.37	0	1.00	1.07	107	25	85-120	20	XF

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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Lea Unit # 4 H

Work Order # : 423540 **Project ID:**

Lab Batch ID: 865874 **QC- Sample ID:** 423540-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** CYE

Reporting Units: mg/L

VOAs by SW-846 8260B	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
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
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0517	103	0.0500	0.0485	97	6	75-125	20	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0611	122	0.0500	0.0612	122	0	75-125	20	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0506	101	0.0500	0.0519	104	3	50-130	31	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0530	106	0.0500	0.0524	105	1	75-127	20	
1,1-Dichloroethane	<0.00500	0.0500	0.0524	105	0.0500	0.0530	106	1	60-130	20	
1,1-Dichloroethene	<0.00500	0.0500	0.0470	94	0.0500	0.0491	98	4	59-172	22	
1,1-Dichloropropene	<0.00500	0.0500	0.0521	104	0.0500	0.0515	103	1	75-125	20	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0481	96	0.0500	0.0509	102	6	75-137	20	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0522	104	0.0500	0.0532	106	2	75-125	20	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0486	97	0.0500	0.0497	99	2	75-135	20	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0453	91	0.0500	0.0445	89	2	75-125	20	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0557	111	0.0500	0.0590	118	6	59-125	28	
1,2-Dibromoethane	<0.00500	0.0500	0.0488	98	0.0500	0.0520	104	6	73-125	20	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0486	97	0.0500	0.0493	99	1	75-125	20	
1,2-Dichloroethane	<0.00500	0.0500	0.0597	119	0.0500	0.0575	115	4	68-127	20	
1,2-Dichloropropane	<0.00500	0.0500	0.0535	107	0.0500	0.0495	99	8	74-125	20	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0469	94	0.0500	0.0480	96	2	70-125	20	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0482	96	0.0500	0.0484	97	0	75-125	20	
1,3-Dichloropropane	<0.00500	0.0500	0.0501	100	0.0500	0.0488	98	3	75-125	20	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0477	95	0.0500	0.0477	95	0	75-125	20	
2,2-Dichloropropane	<0.00500	0.0500	0.0676	135	0.0500	0.0668	134	1	60-140	20	
2-Chlorotoluene	<0.00500	0.0500	0.0483	97	0.0500	0.0485	97	0	73-125	20	
4-Chlorotoluene	<0.00500	0.0500	0.0455	91	0.0500	0.0470	94	3	74-125	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Lea Unit # 4 H

Work Order # : 423540 **Project ID:**

Lab Batch ID: 865874 **QC- Sample ID:** 423540-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** CYE

Reporting Units: mg/L

VOAs by SW-846 8260B 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	<0.00500	0.0500	0.0482	96	0.0500	0.0464	93	4	66-142	21	
Bromobenzene	<0.00500	0.0500	0.0509	102	0.0500	0.0500	100	2	60-130	20	
Bromochloromethane	<0.00500	0.0500	0.0509	102	0.0500	0.0541	108	6	73-125	20	
Bromodichloromethane	<0.00500	0.0500	0.0638	128	0.0500	0.0627	125	2	75-125	20	X
Bromoform	<0.00500	0.0500	0.0604	121	0.0500	0.0634	127	5	75-125	20	X
Bromomethane	<0.00500	0.0500	0.0471	94	0.0500	0.0461	92	2	70-130	20	
Carbon Tetrachloride	<0.00500	0.0500	0.0758	152	0.0500	0.0709	142	7	62-125	20	X
Chlorobenzene	<0.00500	0.0500	0.0492	98	0.0500	0.0484	97	2	60-133	21	
Chloroethane	<0.0100	0.0500	0.0494	99	0.0500	0.0468	94	5	70-130	20	
Chloroform	<0.00500	0.0500	0.0537	107	0.0500	0.0518	104	4	74-125	20	
Chloromethane	<0.0100	0.0500	0.0533	107	0.0500	0.0496	99	7	70-130	20	
cis-1,2-Dichloroethene	<0.00500	0.0500	0.0495	99	0.0500	0.0516	103	4	60-130	20	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0597	119	0.0500	0.0570	114	5	60-140	20	
Dibromochloromethane	<0.00500	0.0500	0.0468	94	0.0500	0.0461	92	2	60-130	20	
Dibromomethane	<0.00500	0.0500	0.0598	120	0.0500	0.0532	106	12	69-127	23	
Dichlorodifluoromethane	<0.00500	0.0500	0.0588	118	0.0500	0.0568	114	3	70-130	23	
Ethylbenzene	<0.00500	0.0500	0.0468	94	0.0500	0.0467	93	0	75-125	20	
Hexachlorobutadiene	<0.00500	0.0500	0.0465	93	0.0500	0.0488	98	5	75-125	20	
isopropylbenzene	<0.00500	0.0500	0.0501	100	0.0500	0.0497	99	1	75-125	20	
m,p-Xylenes	<0.0100	0.100	0.0905	91	0.100	0.0917	92	1	75-125	20	
Methylene Chloride	<0.00500	0.0500	0.0464	93	0.0500	0.0490	98	5	75-125	35	
MTBE	<0.00500	0.0500	0.0543	109	0.0500	0.0531	106	2	75-125	20	
Naphthalene	<0.0100	0.0500	0.0457	91	0.0500	0.0480	96	5	65-135	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Lea Unit # 4 H

Work Order # : 423540 **Project ID:**

Lab Batch ID: 865874 **QC- Sample ID:** 423540-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/28/2011 **Date Prepared:** 07/28/2011 **Analyst:** CYE

Reporting Units: mg/L

VOAs by SW-846 8260B 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
n-Butylbenzene	<0.00500	0.0500	0.0455	91	0.0500	0.0461	92	1	75-125	20	
n-Propylbenzene	<0.00500	0.0500	0.0431	86	0.0500	0.0459	92	6	75-125	20	
o-Xylene	<0.00500	0.0500	0.0473	95	0.0500	0.0497	99	5	75-125	20	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0498	100	0.0500	0.0494	99	1	75-125	20	
Sec-Butylbenzene	<0.00500	0.0500	0.0509	102	0.0500	0.0492	98	3	75-125	20	
Styrene	<0.00500	0.0500	0.0369	74	0.0500	0.0370	74	0	60-130	51	
tert-Butylbenzene	<0.00500	0.0500	0.0553	111	0.0500	0.0536	107	3	75-125	20	
Tetrachloroethylene	<0.00500	0.0500	0.0496	99	0.0500	0.0503	101	1	60-130	20	
Toluene	<0.00500	0.0500	0.0493	99	0.0500	0.0521	104	6	59-139	21	
trans-1,2-dichloroethene	<0.00500	0.0500	0.0465	93	0.0500	0.0469	94	1	60-130	20	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0576	115	0.0500	0.0596	119	3	66-125	20	
Trichloroethene	<0.00500	0.0500	0.0505	101	0.0500	0.0498	100	1	62-137	24	
Trichlorofluoromethane	<0.00500	0.0500	0.0588	118	0.0500	0.0582	116	1	67-125	20	
Vinyl Chloride	<0.00200	0.0500	0.0559	112	0.0500	0.0509	102	9	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 ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: Lea Unit # 4 H

Work Order #: 423540

Lab Batch #: 864506 **Project ID:**

Date Analyzed: 07/19/2011 16:24 **Date Prepared:** 07/19/2011 **Analyst:** BRB

QC- Sample ID: 423530-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Fluoride	<10.0	<10.0	0	20	
Chloride	626	632	1	20	
Sulfate	1080	1060	2	20	
Nitrate as N	6.70	10.7	46	20	F

Lab Batch #: 865764

Date Analyzed: 07/28/2011 20:33 **Date Prepared:** 07/28/2011 **Analyst:** 4150

QC- Sample ID: 424182-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Mercury by EPA 7470A Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Mercury	<0.00200	<0.00200	0	20	

Lab Batch #: 865730

Date Analyzed: 07/28/2011 15:41 **Date Prepared:** 07/27/2011 **Analyst:** 4150

QC- Sample ID: 424182-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Metals, Total by SW846 6010C Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Arsenic	<0.0100	7.30	NC	20	
Barium	<0.0500	<0.0500	0	20	
Cadmium	<0.00500	0.300	NC	20	
Chromium	<0.0500	12.2	NC	20	
Lead	<0.0100	<0.0100	0	20	
Selenium	<0.0100	<0.0100	0	20	
Silver	<0.0500	<0.0500	0	20	
Uranium	<0.100	<0.100	0	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 Laboratories

Sample Duplicate Recovery

Project Name: Lea Unit # 4 H

Work Order #: 423540

Lab Batch #: 864762 **Project ID:**

Date Analyzed: 07/20/2011 09:30 **Date Prepared:** 07/20/2011 **Analyst:** WRU

QC- Sample ID: 423530-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

TDS by SM2540C	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	2910	2930	1	30	

Lab Batch #: 865929

Date Analyzed: 07/29/2011 19:17 **Date Prepared:** 07/29/2011 **Analyst:** MAB

QC- Sample ID: 423540-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: mg/L

Total Cyanide by EPA 335.4	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Cyanide, Total	<0.0100	<0.0100	0	20	

Lab Batch #: 865929

Date Analyzed: 07/29/2011 19:53 **Date Prepared:** 07/29/2011 **Analyst:** MAB

QC- Sample ID: 424561-001 D **Batch #:** 1 **Matrix:** Ground Water

Reporting Units: mg/L

Total Cyanide by EPA 335.4	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Cyanide, Total	<0.0100	<0.0100	0	20	

Lab Batch #: 864460

Date Analyzed: 07/19/2011 13:00 **Date Prepared:** 07/19/2011 **Analyst:** BEV

QC- Sample ID: 423530-001 D **Batch #:** 1 **Matrix:** Water

Reporting Units: SU

pH, Electrometric by EPA 150.2	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
pH	6.93	6.95	0	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 Laboratories

The Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: ..at Darden

Company Name: Legacy Reserve Operating LP

Company Address: PO Box 10848

City/State/Zip: Midland Texas 79702

Telephone No: 432-689-5200

Fax No:

Sampler Signature: [signature]

e-mail: mparrish@legacylp.com

Project Name: Lea Unit #4H

Project #:

Project Loc:

PO #:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 423540

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice (1) 1 L amber (2) 1 L glass 500 ml	HNO₃ (2) 1 L poly (1) 1 gallon	HCl (3) 40 ml VOA	H_2SO_4	NaOH (1) 500 ml poly	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	See Attached List			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Marthan Water Station			7-19-11	800am		16	✓	✓	✓		✓				W												✓				✓

Preservation & # of Containers; Analyze For: TCLP: TOTAL:

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7-19-11	10:15			
			Received by ELOT: Andrea Elam	7-19-11	10:15

Laboratory Comments:

Sample Containers Intact?	(Y)	N
VOCs Free of Headspace?	(Y)	N
Labels on container(s)	(Y)	N
Custody seals on container(s)	Y	(N)
Custody seals on cooler(s)	(Y)	N
Sample Hand Delivered	(Y)	N

by Sampler/Client Rep. ?
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 5.1 °C

Attachment I

New Mexico Water Quality Control Commission Ground Water Standards

A. Human Health Standards - Ground water shall meet the standards of Section A and B unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria of WQCC Section 1-101.UU. for the combination of contaminants, or the Human Health Standard of WQCC Section 3-103.A. for each contaminant shall apply, whichever is more stringent.

Arsenic (As) 0.1 mg/l
Barium (Ba) 1.0 mg/l
Cadmium (Cd) 0.01 mg/l
Chromium (Cr) 0.05 mg/l
Cyanide (CN) 0.2 mg/l
Fluoride (F) 1.6 mg/l
Lead (Pb) 0.05 mg/l
Total Mercury (Hg) 0.002 mg/l
Nitrate (NO3 as N) 10.0 mg/l
Selenium (Se) 0.05 mg/l
Silver (Ag) 0.05 mg/l
Uranium (U) 5.0 mg/l
Radioactivity: Combined
Radium-226 & Radium-228 30.0 pCi/l
Benzene 0.01 mg/l
Polychlorinated biphenyls (PCB's) 0.001 mg/l
Toluene 0.75 mg/l
Carbon Tetrachloride 0.01 mg/l
1,2-Dichloroethane (EDC) 0.01 mg/l
1,1-Dichloroethylene (1, 1-DCE) 0.005 mg/l
1, 1,2,2-tetrachloroethylene (PCE) 0.02 mg/l
1, 1,2-trichloroethylene (TCE) 0.1 mg/l
ethylbenzene 0.75 mg/l
total xylenes 0.62 mg/l
methylene chloride 0.1 mg/l
chloroform 0.1 mg/l
1, 1 -dichloroethane 0.025 mg/l
ethylene dibromide (EDB) 0.0001 mg/l
1, 1, 1 -trichloroethane 0.06 mg/l
1, 1,2-trichloroethane 0.01 mg/l
1, 1,2,2-tetrachloroethane 0.01 mg/l
vinyl chloride 0.001 mg/l
PAH'S: total naphthalene plus
monomethylnaphthalenes 0.03 mg/l
benzo-a-pyrene 0.0007 mg/l

B. Other Standards for Domestic Water Supply

Chloride (Cl) 250. mg/l
Copper (Cu) 1.0 mg/l
Iron (Fe) 1.0 mg/l
Manganese (Mn) 0.2 mg/l
Phenols 0.005 mg/l
Sulfate (SO4) 600. mg/l
Total Dissolved Solids (TDS) 1000. mg/l
Zinc (Zn) 10. mg/l
pH between 6 and 9

C. Standards for Irrigation Use

Ground water shall meet the standards of subsections A, B, and C unless otherwise provided.

Aluminum (Al) 5.0 mg/l
Boron (B) 0.75 mg/l
Cobalt (Co) 0.05 mg/l
Molybdenum (Mo) 1.0 mg/l
Nickel (Ni) 0.2 mg/l

XENCO Laboratories

XENCO Laboratories
Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
Document No.: SYS-SRC
Revision/Date: No. 01, 5/27/2010
Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Legacy Reserves
Date/Time: 7.19.11 10:15
Lab ID # : 423540
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	~~Water~~	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(N/A)	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	(No)		
7. Chain of custody signed when relinquished / received?	(Yes)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	(Yes)	No		
10. Sample matrix / properties agree with chain of custody?	(Yes)	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples properly preserved?	(Yes)	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	~~Yes~~ AE	No	(N/A)	
17. VOC sample have zero head space?	(Yes)	No	N/A	

18. Cooler 1 No.		Cooler 2 No.		Cooler 3 No.		Cooler 4 No.		Cooler 5 No.	
lbs	5.1 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:_____ Contacted by:_____ Date/Time:_____

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis