

NOV 10 2008

Basin Environmental Service Technologies, LLC **NMOC-ARTESIA**

2800 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
cstanley@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429



A handwritten signature in black ink, appearing to be "ML".

Mr. Mike Bratcher
New Mexico Oil Conservation Division
1301 W. Grand Avenue
Artesia, New Mexico 88210

Re: Fairway Resources Operating, LLC
South Red Lake II Unit #59 Reserve Pit Closure

30-015-36131

Mr. Bratcher,

Basin Environmental Service Technologies (Basin), on behalf of Fairway Resources Operating, LLC (Fairway) is submitting reserve pit closure documentation for the above referenced facility.

On May 16, 2008, Fairway submitted a request (Form C-144) to the NMOCD to close a reserve pit at the South Red Lake II Unit #59 (SRLIU #59) facility located in Unit Letter "C", Section 36, Township 17 South, Range 27 East. The Form C-144 was approved by the NMOCD on May 16, 2008. The facility is located in rural Eddy County, east of Artesia. Closure activities began prior to the implementation of the "New Pit Rules" and Fairway requested a closure under NMOCD Rule 50.

A burial trench was excavated adjacent to and west of the reserve pit. The pit liner was removed from the reserve pit and placed in the burial trench in accordance with NMOCD Rule 50. On June 11, 2008, four (4) soil samples (SE-Floor, NW-Floor, SE-Floor and SW-Floor) were collected from the soil beneath the liner (approximately six feet below ground surface) and submitted to the laboratory for determination of BTEX, TPH and chloride concentrations using EPA method 8021b, SW-8015M and EPA 300, respectively.

The analytical results indicated the four (4) soil samples exhibited BTEX and TPH concentrations less than the laboratory detection limit and a chloride concentrations ranging from 128 mg/Kg (SE-Floor) to 1,050 mg/Kg (SW-Floor).

Following the sampling event, four (4) test trenches were excavated to a depth of approximately ten (10) feet below ground surface in the corners of the reserve pit. On June 26, 2008, soil samples NE-2, SE-2, NW-2 and SW-2 were collected from the floor of the test trenches and submitted to the laboratory.

Accepted for record
NMOCD

Final Closure Report



The analytical results indicated BTEX and TPH concentrations were below the laboratory method detection level in the four soil samples. Chloride concentrations ranged from 183 mg/Kg in soil sample SE-2 to 594 mg/Kg in soil sample SW-1.

Following discussion with a NMOCD representative in the Artesia District Office, the NMOCD approved the excavation of additional quantities of chloride impacted soil in the southwestern quarter of the reserve pit, to the extent the soil could be placed in the burial trench.

When the burial trench was at capacity, the NMOCD approved the backfilling of the reserve pit with locally purchased caliche and closed the burial trench per NMOCD Rule 50 guidelines.

Attached are NMOCD Form C-144, a site map, a table summarizing the concentrations of BTEX, TPH and chlorides in Soil and laboratory analytical reports.

If you have any questions, please contact me at 575-441-2244.

Respectfully,

Curt D. Stanley
Project Manager
Basin Environmental
575-396-2378
575-441-2244
cstanley@basinenv.com

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144
June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

MAY 16 2008

OCD-ARTESIA

Operator Fairway Resources Operating LLC Telephone: 817-416-1946 e-mail address: kpearce@fairwayresources.com
Address: 538 Silicon Drive, Suite 101 Southlake, TX 76092
Facility or well name: South Red Lake II Unit #59 API #: 30-015-36131 U/L or Qtr/Qtr C Sec 36 T 17S R 27E
County Eddy Latitude 32°47'45.92" Longitude 104°13'59.94" NAD. 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit	Below-grade tank						
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/> Pit Volume 5,000 bbl	Volume: bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.						
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) >100'	<table border="1"><thead><tr><th>Less than 50 feet</th><th>(20 points)</th></tr></thead><tbody><tr><td>50 feet or more, but less than 100 feet</td><td>(10 points)</td></tr><tr><td>100 feet or more</td><td>(0 points) 0</td></tr></tbody></table>	Less than 50 feet	(20 points)	50 feet or more, but less than 100 feet	(10 points)	100 feet or more	(0 points) 0
Less than 50 feet	(20 points)						
50 feet or more, but less than 100 feet	(10 points)						
100 feet or more	(0 points) 0						
Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	<table border="1"><thead><tr><th>Yes</th><th>(20 points)</th></tr></thead><tbody><tr><td>No</td><td>(0 points) 0</td></tr></tbody></table>	Yes	(20 points)	No	(0 points) 0		
Yes	(20 points)						
No	(0 points) 0						
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	<table border="1"><thead><tr><th>Less than 200 feet</th><th>(20 points)</th></tr></thead><tbody><tr><td>200 feet or more, but less than 1000 feet</td><th>(10 points)</th></tr><tr><td>1000 feet or more</td><td>(0 points) 0</td></tr></tbody></table>	Less than 200 feet	(20 points)	200 feet or more, but less than 1000 feet	(10 points)	1000 feet or more	(0 points) 0
Less than 200 feet	(20 points)						
200 feet or more, but less than 1000 feet	(10 points)						
1000 feet or more	(0 points) 0						
Ranking Score (Total Points) 0							

this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility n.a. (3) Attach a general description of remedial action taken including mediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results
i) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments Deep trench bury
As per NMOCD Rule 50
Encapsulate using 12 mil plastic in pit, 20 mil plastic cover
Place 3' clean top soil on top
Seed area with specified seed mixture
Estimated start date May 21, 2008

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: May 16, 2008

Printed Name/Title: Kenneth Pearce - Engineer

Signature:

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Signed By:

Signature

Date: MAY 16 2008

NOTIFY OCD 24 HOURS PRIOR to beginning closure and 24 HOURS PRIOR to obtaining samples. Samples are to be obtained from pit area and analyses submitted to OCD prior to back-filling.

If burial trench is to be constructed in pit area, samples are to be obtained and analyses submitted to OCD PRIOR to filling trench.

CONCENTRATIONS of BTEX, TPH and CHLORIDE IN SOIL

Fairway Resources - South Red Lake II Unit #59

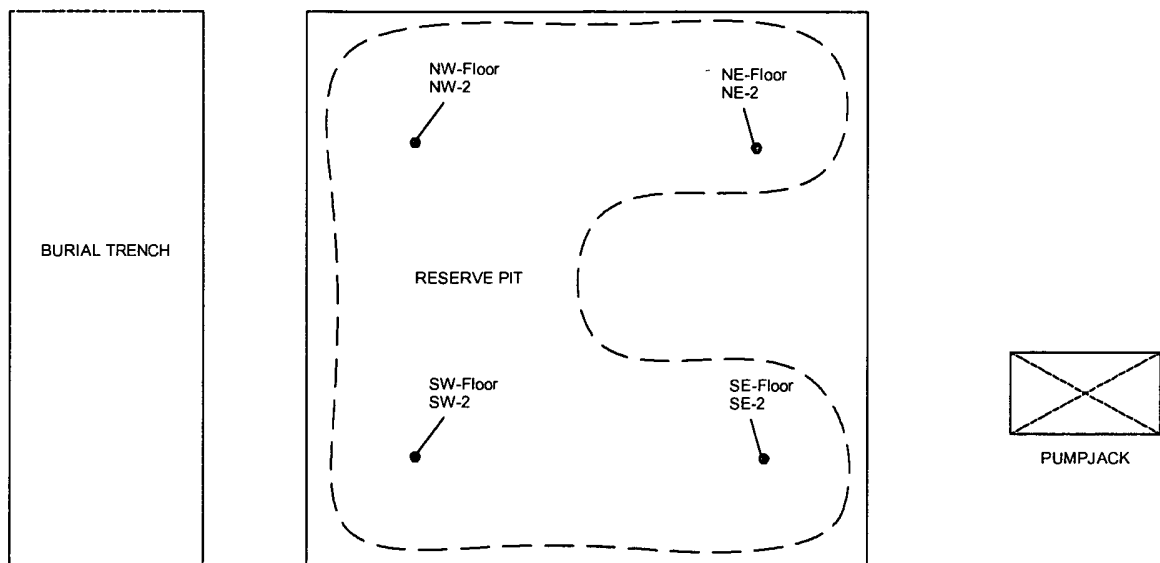
API # 30-015-36131

EDDY COUNTY, NEW MEXICO

All measurements recorded in mg/kg

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SAMPLE TYPE	SOIL STATUS	Methods. EPA SW 846-8021B, 5030							Methods. SW 846-8015M				EPA 300
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TOTAL XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TOTAL TPH C ₆ -C ₃₅ (mg/Kg)	Chloride (mg/Kg)
06/11/08	NE-Floor	6 feet bgs	Soil	Excavated	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<16.6	<16.6	<16.6	<16.6	623
06/11/08	NW-Floor	6 feet bgs	Soil	Excavated	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<18.1	<18.1	<18.1	<18.1	367
06/11/08	SE-Floor	6 feet bgs	Soil	Excavated	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.5	31.7	<17.5	31.7	128
06/11/08	SW-Floor	6 feet bgs	Soil	Excavated	<0.0010	<0.0020	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<17.5	100	<17.5	100	1,050
06/26/08	NE-2	10 feet bgs	Soil	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.4	<17.4	<17.4	<17.4	413
06/26/08	SE-2	10 feet bgs	Soil	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0023	<0.0023	<17.2	17.9	<17.2	<17.9	183
06/26/08	NW-1	10 feet bgs	Soil	In-Situ	<0.0012	<0.0023	<0.0012	<0.0023	<0.0012	<0.0023	<0.0023	<17.5	<17.5	<17.5	<17.5	253
06/28/08	SW-1	10 feet bgs	Soil	In-Situ	<0.0012	<0.0024	<0.0012	<0.0024	<0.0012	<0.0024	<0.0024	<17.8	20.5	<17.8	20.5	594
NMOCD REGULATORY STANDARD					10						50				1,000	-

BOLD indicates concentration exceeding NMOCD regulatory standards



Legend:



Grab Soil Sample Location

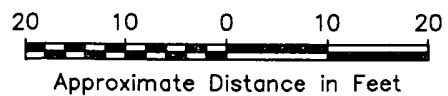


Figure X
Site and Sample
Location Map
Fairway Resources
South Red Lake II Unit
59
Eddy County, NM

Basin Environmental Services

Scale 1" = 20'	CAD By: CDS	Checked By: CDS
October 20, 2008		

Analytical Report 305663

for

Basin Environmental Services

Project Manager: Curt Stanley

South Red Lake II Unit # 59

Fairway Operating

17-JUN-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta



17-JUN-08

Project Manager: **Curt Stanley**
Basin Environmental Services
P.O. Box 301
Lovington, NM 88260

Reference: XENCO Report No: **305663**
South Red Lake II Unit # 59
Project Address: Lea County, NM

Curt Stanley:

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 305663. 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. 305663 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

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Sample Cross Reference 305663



Basin Environmental Services, Lovington, NM

South Red Lake II Unit # 59

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NE-Floor	S	Jun-11-08 14:00		305663-001
NW-Floor	S	Jun-11-08 14:05		305663-002
SE-Floor	S	Jun-11-08 14:10		305663-003
SW-Floor	S	Jun-11-08 14:15		305663-004



Certificate of Analysis Summary 305663

Basin Environmental Services, Lovington, NM

Project Name: South Red Lake II Unit # 59

Project Id: Fairway Operating

Contact: Curt Stanley

Project Location: Lea County, NM

Date Received in Lab: Thu Jun-12-08 08:30 am


Report Date: 17-JUN-08

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	305663-001	305663-002	305663-003	305663-004		
	<i>Field Id:</i>	NE-Floor	NW-Floor	SE-Floor	SW-Floor		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jun-11-08 14:00	Jun-11-08 14:05	Jun-11-08 14:10	Jun-11-08 14:15		
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-12-08 09:39	Jun-12-08 09:39	Jun-12-08 09:39	Jun-12-08 09:39		
	<i>Analyzed:</i>	Jun-12-08 14:05	Jun-12-08 14:29	Jun-12-08 14:52	Jun-12-08 15:16		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.0010	ND 0.0010	ND 0.0010	ND 0.0010		
Toluene		ND 0.0020	ND 0.0020	ND 0.0020	ND 0.0020		
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	0.0011 0.0010		
m,p-Xylenes		ND 0.0020	ND 0.0020	ND 0.0020	0.0029 0.0020		
o-Xylene		ND 0.0010	ND 0.0010	ND 0.0010	0.0016 0.0010		
Total Xylenes		ND	ND	ND	0.0045		
Total BTEX		ND	ND	ND	0.0056		
Inorganic Anions by EPA 300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-12-08 16:51	Jun-12-08 16:51	Jun-12-08 16:51	Jun-12-08 16:51		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		623 25.0	367 25.0	128 25.0	1050 50.0		
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Jun-13-08 09:09	Jun-13-08 09:10	Jun-13-08 09:00	Jun-13-08 09:00		
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		9.87 1.00	17.0 1.00	14.3 1.00	14.4 1.00		
TPH by SW8015 Mod	<i>Extracted:</i>	Jun-12-08 12:15	Jun-12-08 12:15	Jun-12-08 12:15	Jun-12-08 12:15		
	<i>Analyzed:</i>	Jun-12-08 18:11	Jun-12-08 18:40	Jun-12-08 19:39	Jun-12-08 20:08		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 16.6	ND 18.1	ND 17.5	ND 17.5		
C12-C28 Diesel Range Hydrocarbons		30.8 16.6	ND 18.1	31.7 17.5	100 17.5		
C28-C35 Oil Range Hydrocarbons		ND 16.6	ND 18.1	ND 17.5	ND 17.5		
Total TPH		30.8	ND	31.7	100		

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

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Brent Barron
Odessa Laboratory Director



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL(PQL) and above the SQL(MDL).
 - 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.
- * Outside XENCO'S scope of NELAC Accreditation

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5757 NW 158th St, Miami Lakcs, FL 33014
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(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Form 2 - Surrogate Recoveries



Project Name: South Red Lake II Unit # 59

Work Order #: 305663

Project ID: Fairway Operating

Lab Batch #: 725340

Sample: 305635-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 725340

Sample: 305635-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 725340

Sample: 305663-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0352	0.0300	117	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 725340

Sample: 305663-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0312	0.0300	104	80-120	

Lab Batch #: 725340

Sample: 305663-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

** 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: South Red Lake II Unit # 59



Work Order #: 305663

Project ID: Fairway Operating

Lab Batch #: 725340

Sample: 305663-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0338	0.0300	113	80-120	
4-Bromofluorobenzene	0.0356	0.0300	119	80-120	

Lab Batch #: 725340

Sample: 510556-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 725340

Sample: 510556-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0336	0.0300	112	80-120	
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 725340

Sample: 510556-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 725343

Sample: 305635-003 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	86.4	100	86	70-135	
o-Terphenyl	46.9	50.0	94	70-135	

** 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: South Red Lake II Unit # 59

Work Order #: 305663

Project ID: Fairway Operating

Lab Batch #: 725343

Sample: 305635-003 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	83.1	100	83	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

Lab Batch #: 725343

Sample: 305663-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	54.3	50.0	109	70-135	

Lab Batch #: 725343

Sample: 305663-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	85.0	100	85	70-135	
o-Terphenyl	47.6	50.0	95	70-135	

Lab Batch #: 725343

Sample: 305663-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	80.2	100	80	70-135	
o-Terphenyl	45.4	50.0	91	70-135	

Lab Batch #: 725343

Sample: 305663-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	84.6	100	85	70-135	
o-Terphenyl	47.5	50.0	95	70-135	

** 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: South Red Lake II Unit # 59



Work Order #: 305663

Project ID: Fairway Operating

Lab Batch #: 725343

Sample: 510554-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

Lab Batch #: 725343

Sample: 510554-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	77.6	100	78	70-135	
o-Terphenyl	44.0	50.0	88	70-135	

Lab Batch #: 725343

Sample: 510554-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.5	100	84	70-135	
o-Terphenyl	46.4	50.0	93	70-135	

** 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.



Blank Spike Recovery



Project Name: South Red Lake II Unit # 59

Work Order #: 305663

Project ID:

Fairway Operating

Lab Batch #: 725309

Sample: 725309-1-BKS

Matrix: Solid

Date Analyzed: 06/12/2008

Date Prepared: 06/12/2008

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.4	104	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

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



BS / BSD Recoveries



Project Name: South Red Lake II Unit # 59

Work Order #: 305663

Analyst: SHE

Date Prepared: 06/12/2008

Project ID: Fairway Operating

Date Analyzed: 06/12/2008

Lab Batch ID: 725340

Sample: 510556-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	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
Analytes											
Benzene	ND	0.1000	0.1027	103	0.1	0.1012	101	1	70-130	35	
Toluene	ND	0.1000	0.1061	106	0.1	0.1045	105	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1144	114	0.1	0.1127	113	1	71-129	35	
m,p-Xylenes	ND	0.2000	0.2340	117	0.2	0.2301	115	2	70-135	35	
o-Xylene	ND	0.1000	0.1156	116	0.1	0.1136	114	2	71-133	35	

Analyst: ASA

Date Prepared: 06/12/2008

Date Analyzed: 06/12/2008

Lab Batch ID: 725343

Sample: 510554-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	932	93	1000	854	85	9	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	919	92	1000	850	85	8	70-135	35	

Relative Percent Difference RPD = $200 * |(D-F)/(D+F)|$

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: South Red Lake II Unit # 59



Work Order #: 305663

Lab Batch #: 725309

Date Analyzed: 06/12/2008

QC- Sample ID: 305635-001 S

Reporting Units: mg/kg

Date Prepared: 06/12/2008

Batch #: 1

Project ID: Fairway Operating

Analyst: IRO

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	13800	4000	19900	153	75-125	X

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

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: South Red Lake II Unit # 59



Work Order #: 305663

Project ID: Fairway Operating

Lab Batch ID: 725340

QC- Sample ID: 305635-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/12/2008

Date Prepared: 06/12/2008

Analyst: SHE

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	ND	0.1000	0.0945	95	0.1000	0.0870	87	9	70-130	35	
Toluene	ND	0.1000	0.0948	95	0.1000	0.0875	88	8	70-130	35	
Ethylbenzene	ND	0.1000	0.1004	100	0.1000	0.0915	92	8	71-129	35	
m,p-Xylenes	ND	0.2000	0.2068	103	0.2000	0.1895	95	8	70-135	35	
o-Xylene	ND	0.1000	0.1053	105	0.1000	0.0952	95	10	71-133	35	

Lab Batch ID: 725343

QC- Sample ID: 305635-003 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/12/2008

Date Prepared: 06/12/2008

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 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-C12 Gasoline Range Hydrocarbons	ND	1140	1010	89	1140	968	85	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1140	1020	89	1140	976	86	3	70-135	35	

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

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

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



Sample Duplicate Recovery



Project Name: South Red Lake II Unit # 59

Work Order #: 305663

Lab Batch #: 725309

Date Analyzed: 06/12/2008

QC- Sample ID: 305635-001 D

Reporting Units: mg/kg

Date Prepared: 06/12/2008

Batch #: 1

Project ID: Fairway Operating

Analyst: IRO

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	13800	14200	3	20	

Lab Batch #: 725377

Date Analyzed: 06/13/2008

QC- Sample ID: 305635-001 D

Reporting Units: %

Date Prepared: 06/13/2008

Batch #: 1

Analyst: IRO

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	10.6	9.26	13	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

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: Curt Stanley PAGE 01 OF 01

Project Name. South Red Lake II Unit #59

Company Name **Basin Environmental Service Technologies, LLC**

Project # Fairway Operating

Company Address: P O Box 301

Project Loc: Lea County, NM

City/State/Zip Lovington, NM 88260

PO #:

Telephone No (505) 441-2244 Fax No (505) 396-1429

Fax No (505) 396-1429

Report Format ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature  e-mail: cstanley@basineny.co

e-mail: cstanley@basinenv.com

[illegible]

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Basin Env.
Date/ Time: 6-12-08 8:30
Lab ID #: 305663
Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>LD</u> °C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Present</u>
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>ID written on Cont / Lid</u>
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>See Below</u>
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

- Check all that Apply
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 306754

for

Basin Environmental Services

Project Manager: Curt Stanley

Fairway- South Red Lake II Unit # 59

08-JUL-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

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Midland - Corpus Christi - Atlanta



08-JUL-08

Project Manager: **Curt Stanley**
Basin Environmental Services
P.O. Box 301
Lovington, NM 88260

Reference: XENCO Report No: **306754**
Fairway- South Red Lake II Unit # 59
Project Address: Eddy County, NM

Curt Stanley:

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 306754. 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. 306754 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

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Sample Cross Reference 306754**Basin Environmental Services, Lovington, NM**

Fairway- South Red Lake II Unit # 59

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NE-2	S	Jun-26-08 10:00		306754-001
SE-2	S	Jun-26-08 10:05		306754-002
NW-2	S	Jun-26-08 10:10		306754-003
SW-2	S	Jun-26-08 10:15		306754-004



Certificate of Analysis Summary 306754

Basin Environmental Services, Lovington, NM

Project Name: Fairway- South Red Lake II Unit # 59

Project Id:

Contact: Curt Stanley

Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-27-08 09:03 am


Report Date: 08-JUL-08

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	306754-001	306754-002	306754-003	306754-004		
	<i>Field Id:</i>	NE-2	SE-2	NW-2	SW-2		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jun-26-08 10:00	Jun-26-08 10:05	Jun-26-08 10:10	Jun-26-08 10:15		
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-27-08 09:25	Jun-27-08 09:25	Jun-27-08 09:25	Jun-27-08 09:25		
	<i>Analyzed:</i>	Jun-29-08 18:38	Jun-29-08 19:02	Jun-29-08 19:26	Jun-29-08 20:37		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.0012	ND 0.0011	ND 0.0012	ND 0.0012		
Toluene		ND 0.0023	ND 0.0023	ND 0.0023	ND 0.0024		
Ethylbenzene		ND 0.0012	ND 0.0011	ND 0.0012	ND 0.0012		
m,p-Xylenes		ND 0.0023	ND 0.0023	ND 0.0023	ND 0.0024		
o-Xylene		ND 0.0012	ND 0.0011	ND 0.0012	ND 0.0012		
Total Xylenes		ND	ND	ND	ND		
Total BTEX		ND	ND	ND	ND		
Inorganic Anions by EPA 300	<i>Extracted:</i>	Jul-01-08 08:51	Jul-01-08 08:51	Jul-01-08 08:51	Jul-01-08 08:51		
	<i>Analyzed:</i>						
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		413 58.1	183 57.2	253 58.2	594 59.4		
Percent Moisture	<i>Extracted:</i>	Jun-27-08 17:00	Jun-27-08 17:00	Jun-27-08 17:00	Jun-27-08 17:00		
	<i>Analyzed:</i>						
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL		
Percent Moisture		14	12.6	14.1	15.8		
TPH by SW8015 Mod	<i>Extracted:</i>	Jul-01-08 16:05	Jul-01-08 16:05	Jul-01-08 16:05	Jul-01-08 16:05		
	<i>Analyzed:</i>	Jul-03-08 13:18	Jul-03-08 15:06	Jul-07-08 15:41	Jul-03-08 16:01		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Gasoline Range Hydrocarbons		ND 17.4	ND 17.2	ND 17.5	ND 17.8		
C12-C28 Diesel Range Hydrocarbons		ND 17.4	17.9 17.2	ND 17.5	20.5 17.8		
C28-C35 Oil Range Hydrocarbons		ND 17.4	ND 17.2	ND 17.5	ND 17.8		
Total TPH		ND	17.9	ND	20.5		

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

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Brent Barron
Odessa Laboratory Director



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL(PQL) and above the SQL(MDL).
 - 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.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Form 2 - Surrogate Recoveries



Project Name: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Project ID:

Lab Batch #: 726690

Sample: 306745-009 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 726690

Sample: 306745-009 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 726690

Sample: 306754-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0332	0.0300	111	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 726690

Sample: 306754-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0333	0.0300	111	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 726690

Sample: 306754-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

** 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: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Project ID:

Lab Batch #: 726690

Sample: 306754-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 726690

Sample: 511311-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 726690

Sample: 511311-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 726690

Sample: 511311-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 727132

Sample: 306754-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	78.8	100	79	70-135	
o-Terphenyl	43.9	50.0	88	70-135	

** 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: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Project ID:

Lab Batch #: 727132

Sample: 306754-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	92.6	100	93	70-135	
o-Terphenyl	49.0	50.0	98	70-135	

Lab Batch #: 727132

Sample: 306754-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	82.5	100	83	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 727132

Sample: 306754-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	78.1	100	78	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 727132

Sample: 306754-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	82.0	100	82	70-135	
o-Terphenyl	45.8	50.0	92	70-135	

Lab Batch #: 727132

Sample: 306754-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	75.5	100	76	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

** 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: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Project ID:

Lab Batch #: 727132

Sample: 511576-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	100	92	70-135	
o-Terphenyl	50.3	50.0	101	70-135	

Lab Batch #: 727132

Sample: 511576-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	100	89	70-135	
o-Terphenyl	49.2	50.0	98	70-135	

Lab Batch #: 727132

Sample: 511576-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.4	100	95	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

** 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.



Blank Spike Recovery



Project Name: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Project ID:

Lab Batch #: 726918

Sample: 726918-1-BKS

Matrix: Solid

Date Analyzed: 07/01/2008

Date Prepared: 07/01/2008

Analyst: LATCOR

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	ND	10.0	10.8	108	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

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



BS / BSD Recoveries



Project Name: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Analyst: BRB

Date Prepared: 06/27/2008

Project ID:

Date Analyzed: 06/29/2008

Lab Batch ID: 726690

Sample: 511311-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B											
	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
Analytes											
Benzene	ND	0.1000	0.0953	95	0.1	0.1024	102	7	70-130	35	
Toluene	ND	0.1000	0.0913	91	0.1	0.0978	98	7	70-130	35	
Ethylbenzene	ND	0.1000	0.0977	98	0.1	0.1057	106	8	71-129	35	
m,p-Xylenes	ND	0.2000	0.1962	98	0.2	0.2122	106	8	70-135	35	
o-Xylene	ND	0.1000	0.0982	98	0.1	0.1063	106	8	71-133	35	

Analyst: ASA

Date Prepared: 07/01/2008

Date Analyzed: 07/03/2008

Lab Batch ID: 727132

Sample: 511576-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod											
	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	822	82	1000	846	85	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	803	80	1000	830	83	3	70-135	35	

Relative Percent Difference RPD = $200 \times (D-F) / (D+F)$

Blank Spike Recovery [D] = $100 \times (C) / [B]$

Blank Spike Duplicate Recovery [G] = $100 \times (F) / [E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Fairway- South Red Lake II Unit # 59



Work Order #: 306754

Lab Batch #: 726918

Date Analyzed: 07/01/2008

QC- Sample ID: 306754-001 S

Reporting Units: mg/kg

Project ID:

Analyst: LATCOR

Date Prepared: 07/01/2008

Batch #: 1

Matrix: Soil

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	413	1160	1840	123	75-125	

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

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Fairway- South Red Lake II Unit # 59



Work Order #: 306754

Project ID:

Lab Batch ID: 726690

QC- Sample ID: 306745-009 S

Batch #: 1 Matrix: Soil

Date Analyzed: 06/29/2008

Date Prepared: 06/27/2008

Analyst: BRB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B	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
Analytes											
Benzene	ND	0.1014	0.0645	64	0.1014	0.0286	28	78	70-130	78	X
Toluene	ND	0.1014	0.0572	56	0.1014	0.0275	27	70	70-130	70	X
Ethylbenzene	ND	0.1014	0.0537	53	0.1014	0.0254	25	72	71-129	72	X
m,p-Xylenes	ND	0.2028	0.1066	53	0.2028	0.0489	24	75	70-135	75	X
o-Xylene	ND	0.1014	0.0532	52	0.1014	0.0301	30	54	71-133	54	X

Lab Batch ID: 727132

QC- Sample ID: 306754-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 07/03/2008

Date Prepared: 07/01/2008

Analyst: ASA

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH by SW8015 Mod	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
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1160	949	82	1160	861	74	10	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1160	911	79	1160	831	72	9	70-135	35	

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

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



Sample Duplicate Recovery



Project Name: Fairway- South Red Lake II Unit # 59

Work Order #: 306754

Lab Batch #: 726918

Date Analyzed: 07/01/2008

QC- Sample ID: 306754-001 D

Reporting Units: mg/kg

Project ID:

Date Prepared: 07/01/2008

Analyst: LATCOR

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	413	407	1	20	

Lab Batch #: 726607

Date Analyzed: 06/27/2008

QC- Sample ID: 306745-015 D

Reporting Units: %

Date Prepared: 06/27/2008

Analyst: JLG

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.07	ND	NC	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79766

Phone 432-563-1600
Fax 432-563-1713

Project Manager Curt Stanley PAGE 01 OF 01

Project Name Fairway - South Red Lake II Unit #59

Company Name Basin Environmental Service Technologies, LLC

Project #:

Company Address: 2800 Plains Hwy

Project Loc: Eddy County, NM

City/State/Zip Lovington, NM 88260

PO #:

Telephone No: (505) 441-2244

Fax No: (505) 398-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature Curt Stanley

e-mail cstanley@basinenv.com

(lab use only)

ORDER #:

300754

ORDER #:		3006154																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client Basin Env.
Date/ Time 6-17-08 9:03
Lab ID # 306754
Initials al

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.5	*C
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#6	Sample instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Variance Documentation

Contact _____ Contacted by: _____ Date/ Time: _____

Regarding _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event