PLAINS SLAMLY BAKER

Analytical Report 455493

for

Environmental Plus, Incorporated

Project Manager: David Duncan

Skelly Baker Pump Station

HOBBS OCD JAN 2 3 2013

RECEIVED

22-JAN-13

Collected By: Client





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), DoD (L11-54)

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IRP-10-10-2438 PLWJ1828851314

1/23



22-JAN-13

Project Manager: David Duncan Environmental Plus, Incorporated P.O. Box 1558 Eunice, NM 88231

Reference: XENCO Report No(s): 455493 Skelly Baker Pump Station Project Address: UL-F,Sec.27,T22S,R37E

David Duncan:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 455493. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 455493 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, Nul C

Nicholas Straccione Project Manager

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Sample Cross Reference 455493



Environmental Plus, Incorporated, Eunice, NM

Skelly Baker Pump Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1(25')	S	01-09-13 10:45		455493-001
SB-1(30')	S	01-09-13 10:47		455493-002
SB-1(35')	S	01-09-13 10:50		455493-003
SB-1(40')	S	01-09-13 10:53		455493-004
SB-1(45')	S	01-09-13 10:57		455493-005
SB-1(50')	S	01-09-13 11:00		455493-006
SB-2(25')	S	01-09-13 10:10		455493-007
SB-2(30')	S	01-09-13 10:15		455493-008
SB-2(35')	S	01-09-13 10:20		455493-009
SB-2(40')	S	01-09-13 10:25		455493-010
SB-2(45')	S	01-09-13 10:30		455493-011
SB-2(50')	S	01-09-13 10:35		455493-012
SB-3(30')	S	01-09-13 11:18		455493-013
SB-3(35')	S	01-09-13 11:21		455493-014
SB-3(40')	S	01-09-13 11:24		455493-015
SB-3(45')	S	01-09-13 11:27		455493-016
SB-3(50')	S	01-09-13 11:30		455493-017



CASE NARRATIVE

Client Name: Environmental Plus, Incorporated Project Name: Skelly Baker Pump Station



Project ID: Work Order Number(s): 455493 Report Date: 22-JAN-13 Date Received: 01/10/2013

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-904882 TPH by SW8015 Mod SW8015MOD_NM

Batch 904882, C12-C28 Diesel Range Hydrocarbons, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 455493-009, -001, -008, -002, -003. The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons, C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits



Contact: David Duncan

Project Id:

Certificate of Analysis Summary 455493 Environmental Plus, Incorporated, Eunice, NM Project Name: Skelly Baker Pump Station



1-10-13 03:36 pm	-13
Lab: Ihu Jar	Date: 22-JAN
Received in]	Report I
Date	

Lab Id:	455493-001	455493-002	455493-003	455493-004	455493-005	455493-006
Field Id:	SB-1(25')	SB-1(30')	SB-1(35')	SB-1(40')	SB-1(45')	SB-1(50')
Depth:						
Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled:	Jan-09-13 10:45	Jan-09-13 10:47	Jan-09-13 10:50	Jan-09-13 10:53	Jan-09-13 10:57	Jan-09-13 11:00
Extracted:	Jan-22-13 08:50					
Analyzed:	Jan-22-13 10:34					
Units/RL:	mg/kg RL					
	ND 0.00103					
	ND 0.00206					
	0.00189 0.00103					
	0.00228 0.00206					
	0.00384 0.00103					
	0.00612 0.00103					
	0.00801 0.00103					
Extracted:						
Analyzed:	Jan-11-13 14:00	Jan-11-13 14:00	Jan-11-13 14:00	Jan-10-13 16:30	Jan-10-13 16:30	Jan-10-13 16:30
Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
	3.90 1.00	3.58 1.00	2.98 1.00	7.68 1.00	16.4 1.00	3.89 1.00
Extracted:	Jan-16-13 11:00	Jan-16-13 11:00	Jan-16-13 11:00	Jan-11-13 08:00	Jan-11-13 08:00	Jan-11-13 08:00
Analyzed:	Jan-16-13 22:29	Jan-16-13 22:58	Jan-16-13 23:26	Jan-11-13 12:51	Jan-11-13 13:32	Jan-11-13 15:47
Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	211 52.0	182 51.9	88.9 51.5	ND 54.2	ND 59.7	ND 51.8
	1160 52.0	1040 51.9	1020 51.5	250 54.2	74.7 59.7	74.1 51.8
	ND 52.0	ND 51.9	ND 51.5	ND 54.2	ND 59.7	ND 51.8
	1370 52.0	1220 51.9	1110 51.5	250 54.2	74.7 59.7	74.1 51.8
	Lab Id: Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Units/RL: Units/RL: Units/RL: Units/RL:	Lab Id: 455493-001 Field Id: SB-1(25') Depth: SB-1(25') Matrix: SOIL Matrix: SOIL Sampled: Jan-09-13 10:45 Sampled: Jan-22-13 08:50 Matrix: SOIL Sampled: Jan-22-13 08:50 Amatyzed: Jan-22-13 10:34 Units/RL: mg/kg RL ND 0.00189 0.00103 Omotion 0.00189 0.00103 ND 0.00189 0.00103 Amatyzed: Jan-11-13 14:00 0.0013 Amatyzed: Jan-11-13 14:00 0.0013 Amatyzed: Jan-11-13 14:00 0.0013 Amatyzed: Jan-11-13 14:00 0.0013 Amatyzed: Jan-11-13 14:00 0.0003 Amatyzed: Jan-11-13 14:00 0.0003 Amatyzed: Jan-16-13 22:29 0.0003 Amatyzed: Jan-16-13 22:29 0.0003 Amatyzed: Jan-16-13 22:29 0.0003 0.0003 <t< td=""><td>Lab Id: 455493-001 455493-002 Field Id: SB-1(25') SB-1(30') Deptit: SOLL SB-1(30') Matrix: SOLL SOLL Sampled: Jan-09-13 10:45 Jan-09-13 10:47 Extracted: Jan-22-13 08:50 Jan-09-13 10:47 Imit/RL: SOLL SOLL ND 0.0103 Analyzed: Jan-22-13 10:34 Jan-09-13 10:47 Imit/RL: mg/kg RL ND 0.00103 Analyzed: Jan-22-13 10:34 Jan-09-13 10:47 Imit/RL: mg/kg RL ND 0.00103 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11</td><td></td><td>Lab Mi 455493-001 455493-003 455493-003 455493-003 455493-003 455493-004 58-1(40)<!--</td--><td></td></td></t<>	Lab Id: 455493-001 455493-002 Field Id: SB-1(25') SB-1(30') Deptit: SOLL SB-1(30') Matrix: SOLL SOLL Sampled: Jan-09-13 10:45 Jan-09-13 10:47 Extracted: Jan-22-13 08:50 Jan-09-13 10:47 Imit/RL: SOLL SOLL ND 0.0103 Analyzed: Jan-22-13 10:34 Jan-09-13 10:47 Imit/RL: mg/kg RL ND 0.00103 Analyzed: Jan-22-13 10:34 Jan-09-13 10:47 Imit/RL: mg/kg RL ND 0.00103 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11-13 14:00 Analyzed: Jan-11-13 14:00 Jan-11		Lab Mi 455493-001 455493-003 455493-003 455493-003 455493-003 455493-004 58-1(40) </td <td></td>	

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Nicholas Straccione Project Manager

Nul Ch



Contact: David Duncan

Project Id:

Certificate of Analysis Summary 455493 Environmental Plus, Incorporated, Eunice, NM Project Name: Skelly Baker Pump Station



Date Received in Lab: Thu Jan-10-13 03:36 pm Report Date: 22-JAN-13

Project Location: UL-F.Sec.27,T22S,R37E					Report Date:	22-JAN-13	
					Project Manager:	Nicholas Straccione	
	Lab Id:	455493-007	455493-008	455493-009	455493-010	455493-011	455493-012
Analysis Reauested	Field Id:	SB-2(25')	SB-2(30')	SB-2(35')	SB-2(40')	SB-2(45')	SB-2(50')
and the second sec	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-09-13 10:10	Jan-09-13 10:15	Jan-09-13 10:20	Jan-09-13 10:25	Jan-09-13 10:30	Jan-09-13 10:35
BTEX by EPA 8021	Extracted:	Jan-22-13 08:50					
	Analyzed:	Jan-22-13 10:51					
	Units/RL:	mg/kg RL					
Benzene		ND 0.00105					
Toluene		ND 0.00210					
Ethylbenzene		ND 0.00105					
m_p-Xylenes		ND 0.00210					
o-Xylene		ND 0.00105					
Xylenes, Total		ND 0.00105					
Total BTEX		ND 0.00105					
Percent Moisture	Extracted:						
	Analyzed:	Jan-11-13 14:00	Jan-11-13 15:40	Jan-11-13 15:40	Jan-11-13 15:40	Jan-11-13 15:40	Jan-11-13 15:40
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		4.60 1.00	ND 1.00	2.50 1.00	6.37 1.00	6.12 1.00	4.31 1.00
TPH by SW8015 Mod	Extracted:	Jan-18-13 08:15	Jan-16-13 11:00	Jan-16-13 11:00	Jan-16-13 11:00	Jan-16-13 11:00	Jan-18-13 08:15
	Analyzed:	Jan-18-13 13:47	Jan-17-13 09:26	Jan-17-13 10:40	Jan-17-13 15:41	Jan-17-13 16:20	Jan-18-13 15:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Gasoline Range Hydrocarbons		ND 52.4	ND 50.0	ND 51.1	ND 53.2	ND 53.0	ND 52.3
C12-C28 Diesel Range Hydrocarbons		68.8 52.4	ND 50.0	ND 51.1	ND 53.2	ND 53.0	ND 52.3
C28-C35 Oil Range Hydrocarbons		ND 52.4	ND 50.0	ND 51.1	ND 53.2	ND 53.0	ND 52.3
Total TPH		68.8 52.4	ND 50.0	ND 51.1	ND 53.2	ND 53.0	ND 52.3

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Project Manager

Nicholas Straccione Nul Ct

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Contact: David Duncan

Project Id:

Certificate of Analysis Summary 455493 Environmental Plus, Incorporated, Eunice, NM Project Name: Skelly Baker Pump Station



	Date Received in Lab:	Thu Jan-10-13 03:36 pm
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TININE STANDER STANDARD					Project Manager:	Nicholas Straccione	
	Lab Id:	455493-013	455493-014	455493-015	455493-016	455493-017	
Analysis Requested	Field 1d: Denth:	SB-3(30')	SB-3(35')	SB-3(40')	SB-3(45')	SB-3(50')	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Jan-09-13 11:18	Jan-09-13 11:21	Jan-09-13 11:24	Jan-09-13 11:27	Jan-09-13 11:30	
BTEX by EPA 8021	Extracted:	Jan-22-13 08:50					
	Analyzed:	Jan-22-13 11:07					
	Units/RL:	mg/kg RL					
Benzene		ND 0.00105					
Toluene		ND 0.00209					
Ethylbenzene		ND 0.00105					
m_p-Xylenes		ND 0.00209					
o-Xylene		ND 0.00105					
Xylenes, Total		ND 0.00105					
Total BTEX		ND 0.00105					
Percent Moisture	Extracted:						
	Analyzed:	Jan-11-13 15:57	Jan-11-13 15:57	Jan-11-13 15:57	Jan-11-13 15:57	Jan-11-13 15:57	
	Units/RL:	% RL	% RL	% RL	% RL	% BL	
Percent Moisture		4.89 1.00	4.28 1.00	4.71 1.00	3.63 1.00	3.35 1.00	
TPH by SW8015 Mod	Extracted:	Jan-18-13 08:15	Jan-18-13 08:15	Jan-18-13 08:15	Jan-16-13 11:00	Jan-16-13 11:00	
	Analyzed:	Jan-18-13 18:01	Jan-18-13 16:39	Jan-18-13 17:22	Jan-17-13 04:27	Jan-17-13 15:02	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C12 Gasoline Range Hydrocarbons		ND 52.5	ND 52.1	ND 52.5	ND 51.9	ND 51.7	
C12-C28 Diesel Range Hydrocarbons		852 52.5	96.7 52.1	54.3 52.5	ND 51.9	ND 51.7	
C28-C35 Oil Range Hydrocarbons		143 52.5	ND 52.1	ND 52.5	ND 51.9	ND 51.7	
Total TPH		995 52.5	96.7 52.1	54.3 52.5	ND 51.9	ND 51.7	

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Nicholas Straccione Project Manager

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- 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.
- * Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
POL Practical Quantitation Limit	MOL Method Quantitation Limit	LOO Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

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

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 (432) 563-1713

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

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



Project Name: Skelly Baker Pump Station

Vork Orders : 455493	,	Patr	Project I	D:		
Units: mg/kg	Date Analyzed: 01/11/13 12:51	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[U]		
1-Chlorooctane		86.0	100	86	70-135	
o-Terphenyl		42.0	50.1	84	70-135	
Lab Batch #: 904513	Sample: 455493-005 / SMP	Bate	ch: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/11/13 13:32	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		80.4	99.8	81	70-135	-
o-Terphenyl		38.8	49.9	78	70-135	
Lab Batab # 004513	Sample: 455493-006 / SMP	Patr	h. 1 Matrix	Soil		
Lab Batch #: 904915	Date Analyzed: 01/11/13 15:47	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Oblassatura	Analytes	05.2	00.6	1-1	70.125	
1-Chiorooctane		95.3	99.5	90	70-135	
0-Terphenyi		44.2	49.8	69	70-135	
Lab Batch #: 904882	Sample: 455493-001 / SMP	Bate	ch: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/16/13 22:29	st	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		103	99.9	103	70-135	
o-Terphenyl		44.3	50.0	89	70-135	
Lab Batch #: 904882	Sample: 455493-002 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 01/16/13 22:58	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 Chlorosotana		105	100	105	70-135	
1-Chiorooctane		100	100	100		

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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



Project Name: Skelly Baker Pump Station

Vork Orders: 455493	, Sample: 455493-003 / SMP	Rate	Project I	D: Soil		
Units: mg/kg	Date Analyzed: 01/16/13 23:26	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			וען		
1-Chlorooctane		107	99.9	107	70-135	
o-Terphenyl		46.9	50.0	94	70-135	
Lab Batch #: 904882	Sample: 455493-016 / SMP	Bate	h: 1 Matrix	x: Soil		
Units: mg/kg	Date Analyzed: 01/17/13 04:27	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		95.9	100	96	70-135	
o-Terphenyl		37.8	50.0	76	70-135	
Lab Batch #: 904882	Sample: 455493-008 / SMP	Bate	h: 1 Matrix	x: Soil		
Units: mg/kg	Date Analyzed: 01/17/13 09:26	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		97.8	99.9	98	70-135	
o-Terphenyl		35.7	50.0	71	70-135	
Lab Batch #: 904882	Sample: 455493-009 / SMP	Bate	h: 1 Matrix	x:Soil		
Units: mg/kg	Date Analyzed: 01/17/13 10:40	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.9	99.7	99	70-135	
o-Terphenyl		38.1	49.9	76	70-135	
Lab Batch #: 904882	Sample: 455493-017 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/17/13 15:02	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		98.1	100	98	70-135	
o-Ternhenvl		50.6	50.0	101	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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



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Form 2 - Surrogate Recoveries

Project Name: Skelly Baker Pump Station

ork Orders: 455493	,		Project I	D:		
Lab Batch #: 904882	Sample: 455493-010 / SMP	Bato	h: Matri	COVERY	TUDY	
Units: mg/kg	Date Analyzed: 01/17/13 15:41	SU	RROGATE R	ECOVERT	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		89.7	99.7	90	70-135	
o-Terphenyl		48.6	49.9	97	70-135	
Lab Batch #: 904882	Sample: 455493-011 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 01/17/13 16:20	SU	RROGATE R	ECOVERY	STUDY	
TPH	Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	89.0	99.6	89	70-135	
o-Terphenyl		48.7	49.8	98	70-135	
Lab Batch # 905064	Sample: 455493-007 / SMP	Bate	h. 1 Matrix	r: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 13:47	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		86.1	99,9	86	70-135	
o-Terphenyl		46.3	50.0	93	70-135	
Lab Batch #: 905064	Sample: 455493-012 / SMP	Bate	h: 1 Matrix	c: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 15:57	su	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		78.3	100	78	70-135	
o-Terphenyl		41.7	50.0	83	70-135	
Lab Batch #: 905064	Sample: 455493-014 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 16:39	SU	RROGATE R	ECOVERY S	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		89.2	99.8	89	70-135	
o-Terphenyl		47.9	49.9	96	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

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



Project Name: Skelly Baker Pump Station

Vork Orders: 455493	, Sample: 455493-015 / SMP	Bate	Project I	D: • Soil		
Units: mg/kg	Date Analyzed: 01/18/13 17:22	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		80.2	100	80	70-135	
o-Terphenyl		43.1	50.0	86	70-135	
Lab Batch #: 905064	Sample: 455493-013 / SMP	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 18:01	SU	RROGATE R	ECOVERY	STUDY	
ТРН	Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	90.3	99.8	90	70-135	
o-Terphenyl		55.3	49.9	111	70-135	
Lab Batch #: 905203	Sample: 455493-001 / SMP	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/22/13 10:34	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0321	0.0300	107	80-120	
4-Bromofluorobenzene		0.0315	0.0300	105	80-120	
Lab Batch #: 905203	Sample: 455493-007 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 01/22/13 10:51	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0269	0.0300	90	80-120	
4-Bromofluorobenzene		0.0324	0.0300	108	80-120	
Lab Batch #: 905203	Sample: 455493-013 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 01/22/13 11:07	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0319	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Skelly Baker Pump Station

ork Orders : 455493	8, Sample: 632276-1-BLK / Bl	K Bate	Project I	D: Solid		
Units: mg/kg	Date Analyzed: 01/11/13 11:28	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[U]		
1-Chlorooctane		91.0	99.9	91	70-135	
o-Terphenyl		44.0	50.0	88	70-135	
Lab Batch #: 904882	Sample: 632507-1-BLK / BI	LK Bate	h: 1 Matrix	:Solid		-
Units: mg/kg	Date Analyzed: 01/16/13 22:01	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		106	99.9	106	70-135	
o-Terphenyl		45.6	50.0	91	70-135	
Lab Batch #: 905064	Sample: 632598-1-BLK / BI	K Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 01/18/13 13:05	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		82.2	99.8	82	70-135	
o-Terphenyl		44.7	49.9	90	70-135	
Lab Batch #: 905203	Sample: 632701-1-BLK / BI	K Bate	h: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 01/22/13 10:18	SU	RROGATE R	ECOVERY	STUDY	
BTE	CX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0336	0.0300	112	80-120	
4-Bromofluorobenzene		0.0300	0.0300	100	80-120	
Lab Batch #: 904513	Sample: 632276-1-BKS / BI	S Bate	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 01/11/13 10:14	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	105	100	105	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Skelly Baker Pump Station

ork Orders: 455493	Sample: 632507-1-BKS / BI	S Batab	Project I	D:		
Units: mg/kg	Date Analyzed: 01/16/13 21:03	SUI	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes					
1-Chlorooctane		100	100	100	70-135	
o-Terphenyl		50.3	50.1	100	70-135	
Lab Batch #: 905064	Sample: 632598-1-BKS / BI	CS Batch	: 1 Matrix	c:Solid		
Units: mg/kg	Date Analyzed: 01/18/13 11:29	SUI	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		84.0	100	84	70-135	-
o-Terphenyl		48.4	50.1	97	70-135	
Lab Batch #: 905203	Sample: 632701-1-BKS / BI	S Batch	: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 01/22/13 09:45	SUF	RROGATE R	ECOVERY	STUDY	
BTE	CX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorobenzene		0.0346	0.0300	115	80-120	
4-Bromofluorobenzene		0.0350	0.0300	117	80-120	
Lab Batch # 904513	Sample: 632276-1-BSD / BS	D Batch	· Matrix	c Solid		
Units: mg/kg	Date Analyzed: 01/11/13 10:50	SUF	ROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		108	100	108	70-135	
o-Terphenyl		55.2	50.1	110	70-135	
Lab Batch #: 904882	Sample: 632507-1-BSD / BS	D Batch	: 1 Matrix	:Solid		
Units: mg/kg	Date Analyzed: 01/16/13 21:32	SUF	RROGATE R	ECOVERY S	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	-	103	100	103	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Skelly Baker Pump Station

ork Orders : 455493	Sample: 632508-1-BSD / BSI) Bata	Project I	D:		
Units: mg/kg	Date Analyzed: 01/18/13 12:18	SU	RROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1-Chlorooctane		79.8	99.7	80	70-135	
o-Terphenyl		50.1	49.9	100	70-135	
Lab Batch #: 905203	Sample: 632701-1-BSD / BSI) Batc	h: 1 Matrix	: Solid		
Units: mg/kg	Date Analyzed: 01/22/13 10:02	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0337	0.0300	112	80-120	
Lab Batch #: 904513	Sample: 455493-006 S / MS	Bate	h. 1 Matrix	. Soil		
Units: mg/kg	Date Analyzed: 01/11/13 16:27	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		97.3	99.7	98	70-135	
o-Terphenyl		53.3	49.9	107	70-135	
Lab Batch #: 904882	Sample: 455493-017 S / MS	Bate	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/17/13 07:07	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		109	99.8	109	70-135	
o-Terphenyl		50.0	49.9	100	70-135	
Lab Batch #: 905064	Sample: 455493-012 S / MS	Batc	h: 1 Matrix	: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 19:12	SU	RROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		105	100	105	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Skelly Baker Pump Station

Vork Orders: 455493	Semple: 456070-001 S / MS	Batah	Project I	D:		
Units: mg/kg	Date Analyzed: 01/22/13 13:20	SURI	ROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0353	0.0300	118	80-120	
4-Bromofluorobenzene		0.0323	0.0300	108	80-120	
Lab Batch #: 904513	Sample: 455493-006 SD / M	ISD Batch:	1 Matri	x:Soil		
Units: mg/kg	Date Analyzed: 01/11/13 17:09	SURI	ROGATE R	ECOVERY	STUDY	
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		102	99.9	102	70-135	
o-Terphenyl		49.0	50.0	98	70-135	
Lab Batch # 904882	Sample: 455493-017 SD / N	ISD Batch:	1 Matri	x: Soil		
Units: mg/kg	Date Analyzed: 01/17/13 07:33	SURI	ROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		107	99.9	107	70-135	
o-Terphenyl		47.5	50.0	95	70-135	
Lab Batch #: 905064	Sample: 455493-012 SD / N	ISD Batch:	1 Matri	x: Soil		
Units: mg/kg	Date Analyzed: 01/18/13 19:45	SURI	ROGATE R	ECOVERY	STUDY	
ТРН	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		104	100	104	70-135	
o-Terphenyl		62.5	50.0	125	70-135	
Lab Batch #: 905203	Sample: 456070-001 SD / N	ISD Batch:	1 Matri	c: Soil		
Units: mg/kg	Date Analyzed: 01/22/13 13:37	SURI	ROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0314	0.0300	105	80-120	
4-Bromofluorobenzene		0.0264	0.0300	88	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



BS / BSD Recoveries



Project Name: Skelly Baker Pump Station

Work Order #: 455493 Analyst: KEB Lab Batch ID: 905203

Date Prepared: 01/22/2013

Batch #: 1

Sample: 632701-1-BKS

Project ID: Date Analyzed: 01/22/2013 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	RY STUD	Y	\square
BTEX by EPA 8021 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	<0.000998	0.0998	0.0973	26	0.0992	0.0862	87	12	70-130	35	
Toluene	<0.00200	0.0998	0.0917	92	0.0992	0.0811	82	12	70-130	35	
Ethylbenzene	≤0.000998	0.0998	0.0947	95	0.0992	0.0851	86	11	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.186	93	0.198	0.169	85	10	70-135	35	
o-Xylene	866000.0>	0.0998	0.0979	98	0.0992	0.0875	88	11	71-133	35	
Analiset VED		Duran D	100/11/10				Data A.	alved. 0	2100/11/1		

Analyst: KEB	Da	te Prepar	ed: 01/11/201	3			Date AI	alyzed: 0	1/11/2013		
Lab Batch ID: 904513 Sample: 632276-1-F	BKS	Batch	1 :#1					Matrix: S	olid		
Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	>	\square
TPH by SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[V]	[B]	[C]	[D]	[E]	Result [F]	[G]	0/.	70K	7eMLD	
C6-C12 Gasoline Range Hydrocarbons	<50.1	1000	934	93	1000	951	95	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<50.1	1000	931	93	1000	960	96	3	70-135	35	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 17 of 24

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BS / BSD Recoveries



Project Name: Skelly Baker Pump Station

 Work Order #:
 455493

 Analyst:
 KEB

 Lab Batch ID:
 904882
 Sample:
 632507-1-BKS

Date Prepared: 01/16/2013

Batch #: 1

Project ID: Date Analyzed: 01/16/2013 Matrix: Solid

Units: mg/kg		BLAN	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE F	RECOVE	RY STUD	A	
TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[q]	[E]	Result [F]	[<u>G</u>]				
C6-C12 Gasoline Range Hydrocarbons	<50.1	1000	1030	103	1000	1050	105	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<50.1	1000	956	96	1000	973	26	2	70-135	35	
Analyst: KEB Lab Batch ID: 905064 Sample: 632598-1-E	Da BKS	te Prepar Batch	ed: 01/18/201	3			Date Ar	alyzed: 0 Matrix: S	1/18/2013 olid		
											ľ

Units: mg/kg		BLANI	K /BLANK S	PIKE / B	LANK S	PIKE DUPL	ICATE 1	RECOVE	RY STUD	Y	
TPH by SW8015 Mod	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup.	RPD %	Control Limits	Control Limits	Flag
Analytes	2	[B]	[c]	[0]	[E]	Result [F]	[6]	ł			
C6-C12 Gasoline Range Hydrocarbons	<50.1	1000	913	16	7997	866	87	5	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<50.1	1000	985	66	667	892	89	10	70-135	35	

Relative Percent Difference RPD = 200*(C-F)/(C+F) Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes Page 18 of 24

ENCO aboratories

Form 3 - MS / MSD Recoveries

Project Name: Skelly Baker Pump Station



Date Analyzed: 01/22/2013 Lab Batch ID: 905203

Reporting Units: mg/kg

Project ID: Batch #:

Matrix: Soil -

> QC-Sample ID: 456070-001 S Date Prepared: 01/22/2013

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY KEB Analyst:

BTEX by EPA 8021 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	<0.00100	0.100	0.0916	92	0.101	0.0757	75	19	70-130	35	
Toluene	<0.00200	0.100	0.0869	87	0.101	0.0783	78	10	70-130	35	
Ethylbenzene	<0.00100	0.100	0.0892	89	0.101	0.0766	76	15	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.170	85	0.201	0.147	73	15	70-135	35	
o-Xylene	<0.00100	0.100	0.0850	85	0.101	0.0718	71	17	71-133	35	
Lab Batch ID: 904513 0	C-Sample ID:	455493	006 S	Bat	tch #:	1 Matrix:	Soil				

Date Analyzed: 01/11/2013

Reporting Units: mg/kg

Date Prepared: 01/11/2013

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Analyst: KEB

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	<51.9	1040	1070	103	1040	935	90	13	70-135	35	
C12-C28 Diesel Range Hydrocarbons	74.1	1040	1120	101	1040	1010	90	10	70-135	35	
Lab Batch ID: 904882 Date Analyzed: 01/17/2013	C- Sample ID: Date Prepared:	455493-01/16/20	017 S 013	Bai Ani	ich #: ilyst:]	l Matrix KEB	: Soil				

Flag Limits %RPD Control 35 35 Control 70-135 Limits %R 70-135 MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY RPD % -Spiked Dup. %R 116 106 Duplicate Spiked Sample Result [F] 1190 1090 Spike 1030 1030 Э Sample %R [D] Spiked 117 107 Spiked Sample Result 1200 1100 C Spike Added [B] 1030 1030 Sample Result Parent <51.6 <51.6 N TPH by SW8015 Mod C6-C12 Gasoline Range Hydrocarbons C12-C28 Diesel Range Hydrocarbons Analytes Reporting Units: mg/kg

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

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Form 3 - MS / MSD Recoveries



Project Name: Skelly Baker Pump Station

455493	905064
Work Order # :	Lab Batch ID:

Date Analyzed: 01/18/2013

Matrix: Soil KEB -Batch #:

QC- Sample ID: 455493-012 S

Date Prepared: 01/18/2013

Analyst:

Project ID:

Reporting Units: mg/kg		M	ATRIX SPIKI	E / MAT	RIX SPI	KE DUPLICA'	TE RECO	VERY S	TUDY			
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	<52.3	1050	1140	109	1050	1230	117	80	70-135	35		
C12-C28 Diesel Range Hydrocarbons	<52.3	1050	1260	120	1050	1340	128	9	70-135	35		-

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 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

Page 20 of 24



Sample Duplicate Recovery



Project Name: Skelly Baker Pump Station

Work Order #: 455493						
Lab Batch #: 904456				Project I	D:	
Date Analyzed: 01/10/2013 16/30	Date Prepare	d: 01/10/2013	Ana	lyst: 🗆 R 🗆		
QC- Sample ID: 455493-004 D	Batch	#: 1	Ma	trix: Soil		
Reporting Units:	Γ	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	P	arent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		7.68	6.72	13	20	
Lab Batch #: 904559 Date Analyzed: 01/11/2013 14:00 QC- Sample ID: 455562-001 D	Date Prepare Batch	1:01/11/2013 #: 1	Ana Ma	lyst: 🗆 R 🗆 trix: Soil		
Reporting Units:	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Р	arent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		7.33	7.31	0	20	
Lab Batch #: 904564 Date Analyzed: 01/11/2013 15:57 QC- Sample ID: 455493-013 D	Date Prepared Batch	1:01/11/2013 #: 1	Ana Ma	llyst: 🗆 R 🗆 trix: Soil		
Reporting Units:	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Ρ	arent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		4.89	4.78	2	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 Page 1 of 2

Environmental Plus, Inc.

P.O. Box 1588, 2100 Avenue "O", Eunice, New Mexico 88231 H55493 Office; (575) 394-3481; FAX; (575) 394-2601

Chain of Custody Form LAB - XENCO

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Page 2 of 2

Environmental Plus, Inc.

P.O. Box 1588, 2100 Avenue "O", Eunice, New Mexico 88231

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Chain of Custody Form LAB - XENCO

SAMPLE I.D. SAMPLE I.D. SO ¹ G G 1 1 K K G (G)R BB OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)R B OR (C)ONL SO ¹ G 1 1 K K G (G)G (G)R B OR (C) SO ¹ G 1 1 K K G (G)G (G)R B OR (C) SO ¹ G 1 1 K K G (G)G (G)R B OR (C) SO ¹ G 1 1 K K G (G)G (G)R B OR (C) SO ¹ G 1 1 K K G (G)G (G)R B OR (C) SO ¹ G 1 1 K K G (G)G (G)R G (G)C, SO ¹ G 1 1 (1) K G (G)G (G)R G (G)C, SO ¹ G 1 1 (1) K G (G)G (G)R G (G)C, <th>SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. G 1 + CONTAINERER S0) G 1 + CONTAINERER S0)<th>SAMPLE LD. SAMPLE RD. SAMPLE RD. SAMPLE</th><th>any Plains All American e Skelly Baker Pump Sta tion UL-F, Sec. 27, T22S, R3 Name David Robinson</th><th>2601 7E</th><th></th><th></th><th>At At</th><th>ш 9 ;; 9</th><th></th><th></th><th></th><th>0 (() () () () () () () () () () () () ()</th><th></th><th></th><th></th><th>ANNA</th><th></th><th>5</th><th></th><th>SEI</th><th></th><th></th></th>	SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. SAMPLE LD. G 1 + CONTAINERER S0) G 1 + CONTAINERER S0) <th>SAMPLE LD. SAMPLE RD. SAMPLE RD. SAMPLE</th> <th>any Plains All American e Skelly Baker Pump Sta tion UL-F, Sec. 27, T22S, R3 Name David Robinson</th> <th>2601 7E</th> <th></th> <th></th> <th>At At</th> <th>ш 9 ;; 9</th> <th></th> <th></th> <th></th> <th>0 (() () () () () () () () () () () () ()</th> <th></th> <th></th> <th></th> <th>ANNA</th> <th></th> <th>5</th> <th></th> <th>SEI</th> <th></th> <th></th>	SAMPLE LD. SAMPLE RD. SAMPLE	any Plains All American e Skelly Baker Pump Sta tion UL-F, Sec. 27, T22S, R3 Name David Robinson	2601 7E			At At	ш 9 ;; 9				0 (() () () () () () () () () () () () ()				ANNA		5		SEI		
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Cves No concentrations in SB-1, SB-2 and SB-3 Q.5	Test BTEX for Which RUER ONE Ha	Test BTEX for Which EVER one ha	Samala Coo	& Intact		T	Theoke	1à	1	redu	est(c	ad for one (1)	Soil Sarr	ier o	Der	set of	ilani	es; d		hest	H TPH	0
	Test BTEX for which ever one has	Test BTEX for which ever one has	(sea)	No					-	con	cent	rations in SB-	1, SB-2 a	pu	83		de	10				





Comments

Prelogin/Nonconformance Report- Sample Log-In

Client: Environmental Plus, Incorporated	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 01/10/2013 03:36:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 455493	Temperature Measuring device used :

Sample Re	ceipt Checklist	
#1 *Temperature of cooler(s)?	2.5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ receive	d? Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custo	dy? Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	Yes	
#20 VOC samples have zero headspace (less than 1/4 in	nch bubble)? Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SC	4? Yes	
#22 >10 for all samples preserved with NaAsO2+NaOH,	ZnAc+NaOH? Yes	

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Data:			
Date.			

Checklist reviewed by:

Date:



TABLE 2

Summary of Soil Boring Field Analyses and Laboratory Analytical Results Skelly Baker Historical Pump Release Area (EPI Ref. #2010-0001)

UL-F (SE1/4 of the SW1/4) of Section 27, T22S, R37E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	TOTAL Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Gas Range Organics (GRO) (C6-C10) (mg/Kg)	Diesel Range Organics (DRO) (>C10-C28) (mg/Kg)	Oil Range Organics (C28-C35 mg.Kg)	Total Hydrocarbons (C6-C38) (mg/Kg)	Chloride (mg/Kg)
							SO	L BORINGS							
SB-1	25	In Situ	09-Jan-13	218		ND	ND	0.00189	0.00612	0.00801	211	1,160	ND	1,371	
SB-1	30	In Situ	09-Jan-13	160							182	1,040	ND	1,222	**
SB-1	35	In Situ	09-Jan-13	52.4							88.9	1,020	ND	1,109	
SB-1	40	In Situ	09-Jan-13	20.1							ND	250	ND	250	
SB-1	45	In Situ	09-Jan-13	8.1							ND	74.7	ND	74.7	
SB-1	50	In Situ	09-Jan-13	29.2							ND	74.1	ND	74.1	
SB-2	25	In Situ	09-Jan-13	35.7		ND	ND	ND	ND	ND	ND	68.8	ND	68.8	
SB-2	30	In Situ	09-Jan-13	5.8							ND	ND	ND	ND	
SB-2	35	In Situ	09-Jan-13	6.1	••						ND	ND	ND	ND	
SB-2	40	In Situ	09-Jan-13	73							ND	ND	ND	ND	
SB-2	45	In Situ	09-Jan-13	8.8							ND	ND	ND	ND	
SB-2	50	In Situ	09-Jan-13	4.8							ND	ND	ND	ND	
SB-3	30	In Situ	09-Jan-13	22.1		ND	ND	ND	ND	ND	ND	852	143	995	
SB-3	35	In Situ	09-Jan-13	9.4	••						ND	96.7	ND	96.7	
SB-3	40	In Situ	09-Jan-13	6.8							ND	54.3	ND	54.3	
SB-3	45	In Situ	09-Jan-13	5.6							ND	ND	ND	ND	
SB-3	50	In Situ	09-Jan-13	4.9							ND	ND	ND	ND	
N	MOCD Ren	nedial Thresh	olds	100		10				50				100	250

Bold values are in excess of NMOCD Remediation Threshold Goal - Not Analyzed J = Detected, but below the Reporting Limit. Therefore, result is an estimated concentration (CPL J-Flag



Skelly Baker Historical Site

Plains Pipeline, L.P.

