GW-046

APPROVALS

DATE:
03.2011

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Monday, March 28, 2011 3:18 PM
To: 'Thompson, Glen D'
Cc: Hansen, Edward J., EMNRD; Leking, Geoffrey R, EMNRD; 'Zach Capehart'
Subject: Proposed Corrective Actions Approval - EPNG Eunice A Plant, GW-046

Site Excavation Workplan for El Paso Natural Gas Company's
Eunice A Plant, GW-046
Section 5, T21S, R36E, NMPM, Lea County, New Mexico
Proposed Corrective Actions Approval

Dear Mr. Thompson:

The New Mexico Oil Conservation Division (OCD) has received the Site Excavation Workplan for Eunice "A" Compressor Station dated November 29, 2010 (and addendum dated March 1, 2011 and e-mail of March 28, 2011) and has conducted a review of the proposed corrective actions. The corrective actions indicate El Paso Natural Gas Company has met the requirements of 20.6.2 NMAC for corrective actions. Therefore, the OCD hereby conditionally approves the corrective actions as proposed for above-referenced site.

El Paso Natural Gas Company must ensure that the backfill material does not exceed WQCC standards prior to use (using the 20:1 rule - since total analyses will be performed).

El Paso Natural Gas Company must submit to the OCD a report of the corrective actions within 120 days.

Please be advised that OCD approval of these corrective actions does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3492.

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

Lowe, Leonard, EMNRD

From: Zach Capehart [zach@eco-logical.com]
Sent: Monday, March 28, 2011 1:53 PM
To: Lowe, Leonard, EMNRD; Hansen, Edward J., EMNRD
Cc: Glen Thompson; Scott Springer
Subject: Conference Call on GW-046

On March 28, 2011, El Paso (Glen Thompson) and its representative (Eco-logical – Zach Capehart & Scott Springer) conducted a conference call with the NMOCD (Leonard Lowe & Ed Hansen) to review the remedial workplan for the Eunice A facility with a discharge plan of GW-046.

The meeting confirmed that the backfill activities will not be conducted until after the confirmation samples indicate that remediation is complete and that the sample results of the backfill material for total BTEX and total RCRA metals are received. The El Paso internal cleanup value for PCB remediation of 1ppm is acceptable since it is more stringent than the regulatory limits. Excavation activities will be followed with sampling of bottom hole and sidewalls using SPLP analysis for BTEX, RCRA metals, and PCBs. Benzo A Pyrene will also be analyzed using the SPLP if a lab can be found that can produce the NMED limits.

Based on this conference call, the remedial activities are approved as proposed in the *"Site Excavation Workplan for Eunice "A" Compressor Station"*, *"Remediation Report Addendum GW-046"*, and this conference call. Remediation activities will begin following scheduling activities anticipated to take approximately two weeks.

Please feel free to contact me with questions or concerns.

Thanks,

Zach Capehart
Eco-logical Environmental Services, Inc.
5107 Catalpa Lane
Amarillo, Texas 79110
(806) 358-7484
(806) 676-5135 (mobile)
(806) 351-1418 (fax)
zach@eco-logical.com (email)

Eunice A Plant
Remediation Report Addendum GW-046

This addendum is to address the comments From Mr. Ed Hanson, EMNRD, dated December 9th 2010 and following a conference call with Mr. Hanson on January 19, 2011.

Since the work plan was submitted, duplicate samples were collected in the areas where the Total method indicated the highest levels of impact and were analyzed using the SPLP method. These samples were analyzed for the RCRA metal that was the highest for that group. The results of the samples analyzed using the Total method indicated that besides the PCBs, there may have been an Arsenic impact. However, after analyzing these samples using the SPLP method, that is no longer the case. The following tables give the results of both the Total analysis and the SPLP analysis.

Chromium Results (WQCC Limit 0.05 mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp 13-6"	0 to 6 inches	103	0.044
Comp 8-6"	0 to 6 inches	108	0.012
Drain 11A	0 to 6 inches	85.9	0.046
Filter Dump 4-2'	2 feet	NA	0.0095
Filter Dump 4-6"	0 to 6 inches	NA	0.013

Cadmium Results (WQCC Limit 0.01 mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp 11-6"-A	0 to 6 inches	2.2	<0.005
Comp-3-6"-A	0 to 6 inches	0.64	<0.005

Barium Results (WQCC Limit 1.0 mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp 11-6"-A	0 to 6 inches	379	0.27
Comp 16-6"-A	0 to 6 inches	275	0.12
Drain 13A	0 to 6 inches	402	0.29
Drain 1A-6"	0 to 6 inches	177	0.064

Arsenic Results (WQCC Limit 0.1 mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp 8-6"	0 to 6 inches	10.6	<0.010
Drain 14-4'	4 feet	4.6	<0.010
Drain 1A-6"	0 to 6 inches	8.5	0.011
Drain 2A	0 to 6 inches	5.4	0.02
Pump 3-6"	0 to 6 inches	17.8	<0.01

Lead Results (WQCC Limit 0.05 mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp-13-2	2 feet	937	0.0061
Comp 13-6"	0 to 6 inches	699	0.33
Comp 8-6"	0 to 6 inches	315	0.085
Comp 9-2'	2 feet	7.1	<0.005
Comp 9-4'	4 feet	44.5	<0.005
COMP-14-4	4 feet	58.2	<0.005

Mercury Results (WQCC Limit 0.05mg/l)			
Sample ID	Sample Depth	Total (mg/kg)	SPLP (mg/l)
Comp-14-6"-A	0 to 6 inches	371	<0.002
Comp-15-6"-A	0 to 6 inches	194	<0.002
Comp-1-6"-A	0 to 6 inches	8.3	0.0069
Pump-2-6"-A	0 to 6 inches	6.9	0.0483

The impacted areas will be excavated and sampled for the chemical of concern using the SPLP method. Due to underground piping still in use, the impacted areas will be hand excavated. Because of safety concerns, it is anticipated that the hand excavation will be to six feet at the most. Once confirmation that the remediation has been completed the site will be backfilled with like soil. If the SPLP analysis indicates that the soil still contains contaminates above the WQCC limits, a layer of 20 mil plastic will be placed in the excavation prior to backfill. The origin of the backfill soil is not yet known; however, it will most likely be from a nearby land owner and will be virgin soil, not remediated soil. Prior to backfilling, the backfill material will be sampled (one sample for every 300 cubic yards) and analyzed for PAH, BTEX, RCRA metals, and PCBs.

The SPLP analysis is included with this report.

Laboratory Data

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(913)599-5665

February 02, 2011

Zach Capehart
Eco-logical Environmental Services, Inc.
5107 Catapla Lane
Amarillo, TX 79110

RE: Project: SPLP RELOGS
Pace Project No.: 6092609

Dear Zach Capehart:
Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Aaron Pachlhofer, Eco-logical Environmental Serv
Scott Springer, Eco-logical Environmental Serv

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CERTIFICATIONS

Project: SPLP RELOGS
Pace Project No.: 6092609

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SPLP RELOGS
Pace Project No.: 6092609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6092609001	**COMP-13-2' 6090678-004**	Solid	12/08/10 16:50	12/10/10 09:45
6092609002	**COMP-13-4' 6090678-005**	Solid	12/08/10 17:00	12/10/10 09:45
6092609003	**FILTER DUMP 4-6" 6090674-007**	Solid	12/08/10 13:20	12/10/10 09:45
6092609004	**FILTER DUMP 4-2' 6090674-008**	Solid	12/08/10 13:40	12/10/10 09:45
6092609005	**DRAIN-14-4' 6090680-013**	Solid	12/08/10 13:06	12/10/10 09:45
6092609006	**COMP-9-2' 6090678-002**	Solid	12/08/10 17:00	12/10/10 09:45
6092609007	**COMP-9-4' 6090678-003**	Solid	12/08/10 17:04	12/10/10 09:45
6092609008	**DRAIN 1A-6" 6090680001**	Solid	12/09/10 12:59	12/10/10 09:45

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SAMPLE ANALYTE COUNT

Project: SPLP RELOGS
Pace Project No.: 6092609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
6092609001	COMP-13-2' 6090678-004	EPA 6010	JDH	1	PASI-K
		EPA 6010	JDH	1	PASI-K
		ASTM D2974-87	BAG	1	PASI-K
6092609002	COMP-13-4' 6090678-005	EPA 6010	JDH	1	PASI-K
		EPA 6010	JDH	1	PASI-K
		ASTM D2974-87	BAG	1	PASI-K
6092609003	FILTER DUMP 4-6" 6090674-007	EPA 6010	JDH	1	PASI-K
6092609004	FILTER DUMP 4-2' 6090674-008	EPA 6010	JDH	1	PASI-K
6092609005	DRAIN-14-4' 6090680-013	EPA 6010	JDH	1	PASI-K
6092609006	COMP-9-2' 6090678-002	EPA 6010	JDH	1	PASI-K
6092609007	COMP-9-4' 6090678-003	EPA 6010	JDH	1	PASI-K
6092609008	DRAIN 1A-6" 6090680001	EPA 6010	JDH, TJG	2	PASI-K

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: COMP-13-2' 6090678-004 **Lab ID: 6092609001** Collected: 12/08/10 16:50 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**937**	mg/kg	1.1	2	01/24/11 09:18	01/25/11 13:34	7439-92-1	
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Lead	**0.0061**	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:24	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.7**	%	0.50	1		12/13/10 00:00		

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: COMP-13-4' 6090678-005 **Lab ID: 6092609002** Collected: 12/08/10 17:00 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**85.2**	mg/kg	1.0	2	01/24/11 09:18	01/25/11 13:44	7439-92-1	
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Lead	ND	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:28	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.0**	%	0.50	1		12/13/10 00:00		

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: FILTER DUMP 4-6" 6090674-007 **Lab ID: 6092609003** Collected: 12/08/10 13:20 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Chromium	**0.013**	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:31	7440-47-3	

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: FILTER DUMP 4-2' 6090674-008 **Lab ID: 6092609004** Collected: 12/08/10 13:40 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Chromium	**0.0095**	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:34	7440-47-3	

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: DRAIN-14-4' 6090680-013 **Lab ID: 6092609005** Collected: 12/08/10 13:06 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Arsenic	ND	mg/L	0.010	1	01/26/11 10:56	01/27/11 09:37	7440-38-2	

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: COMP-9-2' 6090678-002 **Lab ID: 6092609006** Collected: 12/08/10 17:00 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Lead	ND	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:40	7439-92-1	

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: COMP-9-4' 6090678-003 **Lab ID: 6092609007** Collected: 12/08/10 17:04 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/24/11 00:00							
Lead	ND	mg/L	0.0050	1	01/26/11 10:56	01/27/11 09:56	7439-92-1	

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ANALYTICAL RESULTS

Project: SPLP RELOGS
Pace Project No.: 6092609

Sample: DRAIN 1A-6" 6090680001 **Lab ID: 6092609008** Collected: 12/09/10 12:59 Received: 12/10/10 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Arsenic	**0.011**	mg/L	0.010	1	01/26/11 16:55	01/27/11 12:25	7440-38-2	
Barium	**0.064**	mg/L	0.010	1	01/26/11 16:55	02/02/11 11:02	7440-39-3	

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QUALITY CONTROL DATA

Project: SPLP RELOGS
Pace Project No.: 6092609

QC Batch: MPRP/13325 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 6092609001, 6092609002

METHOD BLANK: 763170 Matrix: Solid
Associated Lab Samples: 6092609001, 6092609002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.50	01/25/11 13:28	

LABORATORY CONTROL SAMPLE: 763171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763172 763173

Parameter	Units	6092609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	937	50.2	54.2	181	122	-1508	-1505	75-125	39	20	M0,R1

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QUALITY CONTROL DATA

Project: SPLP RELOGS
Pace Project No.: 6092609

QC Batch: MPRP/13337 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET SPLP
Associated Lab Samples: 6092609001, 6092609002, 6092609003, 6092609004, 6092609005, 6092609006, 6092609007

METHOD BLANK: 763533 Matrix: Water
Associated Lab Samples: 6092609001, 6092609002, 6092609003, 6092609004, 6092609005, 6092609006, 6092609007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	01/27/11 09:18	
Chromium	mg/L	ND	0.0050	01/27/11 09:18	
Lead	mg/L	ND	0.0050	01/27/11 09:18	

LABORATORY CONTROL SAMPLE: 763534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.99	99	80-120	
Chromium	mg/L	1	0.94	94	80-120	
Lead	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 763535 763536

Parameter	Units	6092609006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.012	1	1	0.92	0.94	91	93	75-125	2	20	
Chromium	mg/L	ND	1	1	0.96	0.97	95	97	75-125	2	20	
Lead	mg/L	ND	1	1	0.95	0.97	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: SPLP RELOGS
Pace Project No.: 6092609

QC Batch: MPRP/13354
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET SPLP
Associated Lab Samples: 6092609008

METHOD BLANK: 764134 Matrix: Water
Associated Lab Samples: 6092609008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	01/27/11 12:12	
Barium	mg/L	ND	0.010	02/02/11 13:12	

LABORATORY CONTROL SAMPLE: 764135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.98	98	80-120	
Barium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 764136 764137

Parameter	Units	6092609003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.011	1	1	1.0	1.0	100	99	75-125	1	20	
Barium	mg/L	0.064	1	1	1.1	1.1	99	100	75-125	0	20	

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QUALIFIERS

Project: SPLP RELOGS
Pace Project No.: 6092609

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SPLP RELOGS
Pace Project No.: 6092609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6092609001	COMP-13-2' 6090678-004	EPA 3050	MPRP/13325	EPA 6010	ICP/11596
6092609002	COMP-13-4' 6090678-005	EPA 3050	MPRP/13325	EPA 6010	ICP/11596
6092609001	COMP-13-2' 6090678-004	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609002	COMP-13-4' 6090678-005	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609003	FILTER DUMP 4-6" 6090674-007	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609004	FILTER DUMP 4-2' 6090674-008	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609005	DRAIN-14-4' 6090680-013	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609006	COMP-9-2' 6090678-002	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609007	COMP-9-4' 6090678-003	EPA 3010	MPRP/13337	EPA 6010	ICP/11599
6092609008	DRAIN 1A-6" 6090680001	EPA 3010	MPRP/13354	EPA 6010	ICP/11610
6092609001	COMP-13-2' 6090678-004	ASTM D2974-87	PMST/5859		
6092609002	COMP-13-4' 6090678-005	ASTM D2974-87	PMST/5859		

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February 03, 2011

Zach Capehart
Eco-logical Environmental Services, Inc.
5107 Catapla Lane
Amarillo, TX 79110

RE: Project: El Paso Eunice A
Pace Project No.: 6092711

Dear Zach Capehart:
Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ANA LE Custer

Anna Custer

anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Aaron Pachlhofer, Eco-logical Environmental Serv
Scott Springer, Eco-logical Environmental Serv

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CERTIFICATIONS

Project: El Paso Eunice A
Pace Project No.: 6092711

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: El Paso Eunice A
Pace Project No.: 6092711

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6092711001	COMP-8-6"-A	Solid	01/24/11 14:12	01/25/11 09:00
6092711002	COMP-13-6"-A	Solid	01/24/11 14:18	01/25/11 09:00
6092711003	DRAIN-11A	Solid	01/24/11 13:59	01/25/11 09:00
6092711004	PUMP-3-6"-A	Solid	01/24/11 14:09	01/25/11 09:00
6092711005	DRAIN-2A	Solid	01/24/11 13:40	01/25/11 09:00
6092711006	DRAIN-13A	Solid	01/24/11 14:01	01/25/11 09:00
6092711007	COMP-11-6"-A	Solid	01/24/11 14:16	01/25/11 09:00
6092711008	COMP-16-6"-A	Solid	01/24/11 14:16	01/25/11 09:00
6092711009	COMP-3-6"-A	Solid	01/24/11 13:51	01/25/11 09:00
6092711010	COMP-1-6"-A	Solid	01/24/11 13:47	01/25/11 09:00
6092711011	COMP-14-6"-A	Solid	01/24/11 14:21	01/25/11 09:00
6092711012	COMP-15-6"-A	Solid	01/24/11 14:23	01/25/11 09:00
6092711013	PUMP-2-6"-A	Solid	01/24/11 14:07	01/25/11 09:00

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SAMPLE ANALYTE COUNT

Project: El Paso Eunice A
Pace Project No.: 6092711

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
6092711001	COMP-8-6"-A	EPA 6010	JDH, TJG	3	PASI-K
6092711002	COMP-13-6"-A	EPA 6010	JDH, TJG	2	PASI-K
6092711003	DRAIN-11A	EPA 6010	TJG	1	PASI-K
6092711004	PUMP-3-6"-A	EPA 6010	TJG	1	PASI-K
6092711005	DRAIN-2A	EPA 6010	TJG	1	PASI-K
6092711006	DRAIN-13A	EPA 6010	TJG	1	PASI-K
6092711007	COMP-11-6"-A	EPA 6010	TJG	2	PASI-K
6092711008	COMP-16-6"-A	EPA 6010	TJG	1	PASI-K
6092711009	COMP-3-6"-A	EPA 6010	TJG	1	PASI-K
6092711010	COMP-1-6"-A	EPA 7470	SMW	1	PASI-K
6092711011	COMP-14-6"-A	EPA 7470	SMW	1	PASI-K
6092711012	COMP-15-6"-A	EPA 7470	SMW	1	PASI-K
6092711013	PUMP-2-6"-A	EPA 7470	SMW	1	PASI-K

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-8-6"-A **Lab ID: 6092711001** Collected: 01/24/11 14:12 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Arsenic	ND	mg/L	0.010	1	01/27/11 16:55	02/02/11 12:33	7440-38-2	
Chromium	**0.012**	mg/L	0.0050	1	01/27/11 16:55	02/02/11 12:33	7440-47-3	
Lead	**0.085**	mg/L	0.0050	1	01/27/11 16:55	02/03/11 12:30	7439-92-1	1e

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-13-6"-A **Lab ID: 6092711002** Collected: 01/24/11 14:18 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Chromium	**0.044**	mg/L	0.0050	1	01/27/11 16:55	02/02/11 12:43	7440-47-3	
Lead	**0.33**	mg/L	0.0050	1	01/27/11 16:55	02/03/11 12:33	7439-92-1	1e

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: DRAIN-11A **Lab ID: 6092711003** Collected: 01/24/11 13:59 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Chromium	**0.046**	mg/L	0.0050	1	01/27/11 16:55	02/02/11 12:46	7440-47-3	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: PUMP-3-6"-A **Lab ID: 6092711004** Collected: 01/24/11 14:09 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Arsenic	ND	mg/L	0.010	1	01/27/11 16:55	02/02/11 12:49	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: DRAIN-2A **Lab ID: 6092711005** Collected: 01/24/11 13:40 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Arsenic	**0.020**	mg/L	0.010	1	01/27/11 16:55	02/02/11 12:53	7440-38-2	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: DRAIN-13A **Lab ID: 6092711006** Collected: 01/24/11 14:01 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Barium	**0.29**	mg/L	0.010	1	01/27/11 16:55	02/02/11 12:56	7440-39-3	B+

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-11-6"-A **Lab ID: 6092711007** Collected: 01/24/11 14:16 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	*Analytical Method: EPA 6010 Preparation Method: EPA 3010*							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Barium	**0.27**	mg/L	0.010	1	01/27/11 16:55	02/02/11 13:05	7440-39-3	B+
Cadmium	ND	mg/L	0.0050	1	01/27/11 16:55	02/02/11 13:05	7440-43-9	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-16-6"-A **Lab ID: 6092711008** Collected: 01/24/11 14:16 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Barium	**0.12**	mg/L	0.010	1	01/27/11 16:55	02/02/11 13:08	7440-39-3	B+

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-3-6"-A **Lab ID: 6092711009** Collected: 01/24/11 13:51 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, SPLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Cadmium	ND	mg/L	0.0050	1	01/27/11 16:55	02/02/11 13:22	7440-43-9	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-1-6"-A **Lab ID: 6092711010** Collected: 01/24/11 13:47 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Mercury	**6.9**	ug/L	2.0	1	01/31/11 11:30	01/31/11 15:32	7439-97-6	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-14-6"-A **Lab ID: 6092711011** Collected: 01/24/11 14:21 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Mercury	ND	ug/L	2.0	1	01/31/11 11:30	01/31/11 15:38	7439-97-6	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: COMP-15-6"-A **Lab ID: 6092711012** Collected: 01/24/11 14:23 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Mercury	ND	ug/L	2.0	1	01/31/11 11:30	01/31/11 15:40	7439-97-6	

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ANALYTICAL RESULTS

Project: El Paso Eunice A
Pace Project No.: 6092711

Sample: PUMP-2-6"-A **Lab ID: 6092711013** Collected: 01/24/11 14:07 Received: 01/25/11 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1312; 01/25/11 00:00							
Mercury	**48.3**	ug/L	4.0	2	01/31/11 11:30	01/31/11 16:28	7439-97-6	

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QUALITY CONTROL DATA

Project: El Paso Eunice A
Pace Project No.: 6092711

QC Batch: MPRP/13373 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET SPLP
Associated Lab Samples: 6092711001, 6092711002, 6092711003, 6092711004, 6092711005, 6092711006, 6092711007, 6092711008, 6092711009

METHOD BLANK: 764857 Matrix: Water
Associated Lab Samples: 6092711001, 6092711002, 6092711003, 6092711004, 6092711005, 6092711006, 6092711007, 6092711008, 6092711009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	02/02/11 12:27	
Barium	mg/L	0.010	0.010	02/02/11 12:27	
Cadmium	mg/L	ND	0.0050	02/02/11 12:27	
Chromium	mg/L	ND	0.0050	02/02/11 12:27	
Lead	mg/L	0.18	0.0050	02/02/11 12:27	
Lead	mg/L	ND	0.0050	02/03/11 12:24	

LABORATORY CONTROL SAMPLE: 764858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	1.0	103	80-120	
Barium	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	1	1.0	103	80-120	
Lead	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 764859 764860

Parameter	Units	6092711006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	1	1	1.0	1.0	103	101	75-125	2	20	
Barium	mg/L	0.29	1	1	1.1	1.1	79	77	75-125	2	20	
Cadmium	mg/L	ND	1	1	1.0	1.0	104	102	75-125	2	20	
Chromium	mg/L	0.0058	1	1	1.0	1.0	101	99	75-125	2	20	
Lead	mg/L	ND	1	1	1.1	1.0	105	104	75-125	2	20	

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QUALITY CONTROL DATA

Project: El Paso Eunice A
Pace Project No.: 6092711

QC Batch: MERP/4919 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury SPLP
Associated Lab Samples: 6092711010, 6092711011, 6092711012, 6092711013

METHOD BLANK: 765974 Matrix: Water
Associated Lab Samples: 6092711010, 6092711011, 6092711012, 6092711013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	01/31/11 15:28	

LABORATORY CONTROL SAMPLE: 765975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 765976 765977

Parameter	Units	6092711010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	6.9	15	15	14.1	13.7	48	45	75-125	3	19	M0

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: El Paso Eunice A
Pace Project No.: 6092711

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

1e	Sample was re-filtered and digested.
B+	Analyte was detected in the associated method blank as well as in the sample.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: El Paso Eunice A
Pace Project No.: 6092711

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6092711001	COMP-8-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711002	COMP-13-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711003	DRAIN-11A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711004	PUMP-3-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711005	DRAIN-2A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711006	DRAIN-13A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711007	COMP-11-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711008	COMP-16-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711009	COMP-3-6"-A	EPA 3010	MPRP/13373	EPA 6010	ICP/11620
6092711010	COMP-1-6"-A	EPA 7470	MERP/4919	EPA 7470	MERC/4887
6092711011	COMP-14-6"-A	EPA 7470	MERP/4919	EPA 7470	MERC/4887
6092711012	COMP-15-6"-A	EPA 7470	MERP/4919	EPA 7470	MERC/4887
6092711013	PUMP-2-6"-A	EPA 7470	MERP/4919	EPA 7470	MERC/4887

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	Eco-logical
Address:	2200 Market Street
	Midland, TX 76703
Email To:	scott@eco-local.com
Phone: 432-520-7535	Fax: 432-520-7737
Requested Due Date/TAT:	24 hour

Section B Required Project Information:

Report To:	Scott Springer
Copy To:	zach@eco-logical.com
	aaron@eco-logical.com
Purchase Order No.:	
Project Name:	El Paso Eunice A
Project Number:	982-4170

Section C Invoice Information:

Attention:	Scott Springer
Company Name:	Eco-loigcal Environmental
Address:	2200 Market Street
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	SPLP CHROMIUM	SPLP ARSENIC	SPLP LEAD	SPLP BARIUM	SPLP CADMIUM	SPLP MERCURY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 6092711
1	COMP-8-6"-A	SL	G			01/24/11	14:12		1	X									X	X	X					001
2	COMP-13-6"-A	SL	G			01/24/11	14:18		1	X									X		X					002
3	DRAIN-11A	SL	G			01/24/11	13:59		1	X									X							003
4	PUMP-3-6"-A	SL	G			01/24/11	14:09		1	X										X						004
5	DRAIN-2A	SL	G			01/24/11	13:40		1	X										X						005
6	DRAIN-13A	SL	G			01/24/11	14:01		1	X												X				006
7	COMP-11-6"-A	SL	G			01/24/11	14:16		1	X												X	X			007
8	COMP-16-6"-A	SL	G			01/24/11	14:16		1	X												X				008
9	COMP-3-6"-A	SL	G			01/24/11	13:51		1	X													X			009
10	COMP-1-6"-A	SL	G			01/24/11	13:47		1	X														X		010
11	COMP-14-6"-A	SL	G			01/24/11	14:21		1	X														X		011
12	COMP-15-6"-A	SL	G			01/24/11	14:23		1	X														X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
					11/25/11	900	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pachlhofer

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): ~~12/15/10~~ 11/24/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	Eco-logical
Address:	2200 Market Street
	Midland, TX 76703
Email To:	scott@eco-locial.com
Phone: 432-520-7535	Fax: 432-520-7737
Requested Due Date/TAT:	24 hour

Section B Required Project Information:

Report To:	Scott Springer
Copy To:	zach@eco-logical.com
	aaron@eco-logical.com
Purchase Order No.:	
Project Name:	El Paso Eunice A
Project Number:	982-4170

Section C Invoice Information:

Attention:	Scott Springer
Company Name:	Eco-loigcal Environmental
Address:	2200 Market Street
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	SPLP CHROMIUM	SPLP ARSENIC	SPLP LEAD	SPLP BARIUM	SPLP CADMIUM	SPLP MERCURY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PUMP-2-6"-A	SL	G			01/24/11	14:07		1	X														X		60927/1 (WEPH) 013
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				Pace	1/25/11	900	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pachlhofer

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 12/15/10 1/24/11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: Eco-logical Project # 6092711

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8740 5790 6072 Pace Shipping Label Used? ☒ Yes ☐ No

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No

Optional
Proj. Due Date: 1/28
Proj. Name: El Paso Smelter

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ Foam ☐ None ☐ Other _____

Thermometer Used: (T-191) T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.2

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: CMD 1/25/11 KJS

				Comments:
Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	9.
-Pace containers used:	☒Yes	☐No	☐N/A	
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	13.
-Includes date/time/ID/analyses Matrix: Soil				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed N/A Lot # of added preservative
Trip Blank present:	☐Yes	☐No	☒N/A	15.
Pace Trip Blank lot # (if purchased): N/A				
Headspace in VOA vials (>6mm):	☐Yes	☐No	☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: ACC Date: 1/25/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.05, 19February2010