

**AP - 018**

**STAGE 2  
REPORT**

**01/07/2008**

APD 18  
RECEIVED

2008 JAN 11 PM 2 10

January 7, 2008

NMOCD Environmental  
ATTN: Wayne Price  
1220 S. Saint Francis Drive  
Santa Fe, NM 87504

RE: Smith & Marrs  
SLJU  
Osborn Ranch

Mr. Price:

Attached are the analytical for the monitor wells drilled on the Osborn Ranch in Jal, NM. This is the seventh sampling event and we have scheduled the sample again in the first quarter of 2008.

The analytical for the water looks similar to the first samplings. Find attached analytical and data sheet for your review.

If you have any questions, please call.

Sincerely,



Eddie W. Seay, Agent  
Eddie Seay Consulting  
601 W. Illinois  
Hobbs, NM 88242  
(575)392-2236  
seay04@leaco.net

## FIELD MEASUREMENT and OBSERVATION LOG

**PROJECT NAME: Smith & Marrs**

**PROJECT LOCATION:** South Langlie Jai Unit

Date Sampled: 12-17-2007

**PROJECT MANAGER:** Eddie Seay

**FIELD TECHNICIAN:** Rozanne Johnson - Arc Environmental

**Notes: Water was disposed of at an approved salt-water disposal.**

[illegible]



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SMITH & MARRS  
ATTN: EDDIE SEAY  
601 W. ILLINOIS  
HOBBS, NM 88242  
FAX TO: (575) 392-6949

Receiving Date: 12/17/07  
Reporting Date: 12/20/07  
Project Number: NOT GIVEN  
Project Name: SOUTH LANGLIE JAL UNIT  
Project Location: LEA COUNTY, NM

Sampling Date: 12/17/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: HM/KS/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		12/18/07	12/17/07	12/17/07	12/18/07	12/18/07	12/17/07
H13941-1	MONITOR WELL #2	174	87.8	54.9	4.44	1,427	176
H13941-2	MONITOR WELL #3	161	200	54.5	3.93	1,975	132
H13941-3	MONITOR WELL #4	193	149	50.0	4.08	2,015	116
H13941-4	MONITOR WELL #5	72	34.6	65.3	12.7	1,024	184
H13941-5	MONITOR WELL #6	177	49.2	35.5	3.63	1,062	220
H13941-6	MONITOR WELL #7	414	117	50.0	5.45	2,125	432
Quality Control		NR	49.2	54.0	3.19	1,411	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	108	106	99.9	NR
Relative Percent Difference		NR	< 0.1	6.1	10.2	0.7	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	12/17/07	12/17/07	12/17/07	12/17/07	12/18/07	12/18/07
H13941-1     MONITOR WELL #2	240	303	0	215	7.67	959
H13941-2     MONITOR WELL #3	480	261	0	161	7.47	1,622
H13941-3     MONITOR WELL #4	516	153	0	142	7.43	1,721
H13941-4     MONITOR WELL #5	192	71.1	0	224	7.83	653
H13941-5     MONITOR WELL #6	108	275	0	268	7.56	778
H13941-6     MONITOR WELL #7	504	253	0	527	7.41	1,602
Quality Control	500	23.4	NR	1000	7.06	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	93.5	NR	100	101	NR
Relative Percent Difference	< 0.1	18.0	NR	1.2	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Chemist

Date

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ANALYTICAL RESULTS FOR  
SMITH & MARRS  
ATTN: EDDIE SEAY  
601 W. ILLINOIS  
HOBBS, NM 88242  
FAX TO: (505) 392-6949

Receiving Date: 12/17/07  
Reporting Date: 12/17/07  
Project Number: NOT GIVEN  
Project Name: SOUTH LANGLIE JAL UNIT  
Project Location: LEA CO., NM

Sampling Date: 12/17/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/17/07	12/17/07	12/17/07	12/17/07
H13941-1	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H13941-2	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
H13941-3	MONITOR WELL #4	<0.001	<0.001	<0.001	<0.003
H13941-4	MONITOR WELL #5	<0.001	<0.001	<0.001	<0.003
H13941-5	MONITOR WELL #6	<0.001	<0.001	<0.001	<0.003
H13941-6	MONITOR WELL #7	<0.001	<0.001	<0.001	<0.003
Quality Control		0.105	0.096	0.096	0.302
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	96	96	101
Relative Percent Difference		1.4	2.8	3.1	3.8

METHOD: EPA SW-846 8021B

Chemist

Date

H13941b Rice

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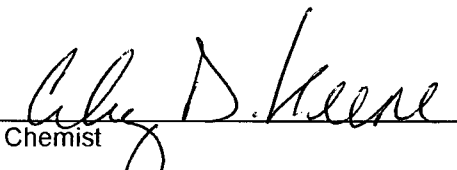
ANALYTICAL RESULTS FOR  
SMITH & MARRS  
ATTN: EDDIE SEAY  
601 W. ILLINOIS  
HOBBS, NM 88242  
FAX TO: (575) 392-6949

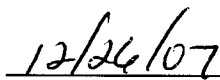
Receiving Date: 12/17/07  
Reporting Date: 12/26/07  
Project Owner: NOT GIVEN  
Project Name: SOUTH LANGLEIE JAL UNIT  
Project Location: LEA COUNTY, NM

Sampling Date: 12/17/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: ML  
Analyzed By: CK

LAB NUMBER	SAMPLE ID	GRO	DRO	TOTAL
		(C <sub>6</sub> -C <sub>12</sub> )	(>C <sub>12</sub> -C <sub>28</sub> )	(C <sub>6</sub> -C <sub>28</sub> )
		(mg/L)	(mg/L)	(mg/L)
ANALYSIS DATE		12/21/07	12/21/07	12/21/07
H13941-1	MONITOR WELL #2	<5.0	<5.0	<5.0
H13941-2	MONITOR WELL #3	<5.0	<5.0	<5.0
H13941-3	MONITOR WELL #4	<5.0	<5.0	<5.0
H13941-4	MONITOR WELL #5	<5.0	<5.0	<5.0
H13941-5	MONITOR WELL #6	<5.0	<5.0	<5.0
H13941-6	MONITOR WELL #7	<5.0	<5.0	<5.0
Blank		<5.0	<5.0	<5.0
Matrix Spike		25.7	24.1	49.8
Matrix Spike Duplicate		24.5	22.3	46.8
True Value		25.0	25.0	50.0
% Recovery (Average)		100	92.8	96.6
Relative Percent Difference		5.0	8.0	6.2

METHODS: TPH TEXAS 1005

  
Chemist

  
Date

H13941T SEAY

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101 East Marland - Hobbs, New Mexico 88240  
Tel (505) 393-2326  
Fax (505) 393-2476

# Cardinal Laboratories, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: **Smith & Marrs** BILL TO Company: **Eddie Seay** PO# \_\_\_\_\_

Project Manager: **Eddie Seay** Address: **601 W. Illinois ~ Hobbs, New Mexico 88242** (Street, City, Zip)

Address: **(Street, City, Zip)** Phone#: **(505) 392-2236** Fax#: **(505) 392-6949**

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project #: \_\_\_\_\_ Project Name: **South Langlie Jail Unit**

Project Location: **Lea County - New Mexico** Sampler Signature: *[Signature]* Rozanne Johnson (505) 631-9310  
rozanne@valornet.com

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX				PRESERVATIVE METHOD					DATE (2007)	TIME	
				WATER	SOIL	AIR	SLUDGE	HCL (2 40ml VOA)	HNO <sub>3</sub>	NaHSO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE (1-1Liter HDPE)			NONE
H13941-1	Monitor Well #2	G	3	X				2				1		12-17	11:00
-2	Monitor Well #3	G	3	X				2				1		12-17	11:50
-3	Monitor Well #4	G	3	X				2				1		12-17	15:00
-4	Monitor Well #5	G	3	X				2				1		12-17	14:20
-5	Monitor Well #6	G	3	X				2				1		12-17	13:30
-6	Monitor Well #7	G	3	X				2				1		12-17	12:40
														</	

Relinquished by: *[Signature]* Date: **12-17-2007** Time: **17:05**

Received by: *[Signature]* Date: **12-17-2007** Time: **5:10PM**

Delivered By: (Circle One) ☒ UPS - Bus - Other: \_\_\_\_\_

Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No

ANALYSIS REQUEST (Circle or Specify Method No.)		Phone Results	Yes	No	Additional Fax Number:
MTBE 8021B/602					
BTEX 8021B/602					
TPH 418.1/TX1005 / TX1005 Extended (C35)					
PAH 8270C					
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7					
TCLP Metals Ag As Ba Cd Cr Pb Se Hg					
TCLP Volatiles					
TCLP Semi Volatiles					
TCLP Pesticides					
RCI					
GC/MS Vol. 8260B/624					
GC/MS Semi. Vol. 8270C/625					
PCB's 8082/608					
Pesticides 8081A/608					
BOD, TSS, pH					
Moisture Content					
Cations (Ca, Mg, Na, K)					
Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )					
Total Dissolved Solids					
Chlorides					
Turn Around Time ~ 24 Hours					