

SPILL REPORT

Clay Osborn
P.O. Box 1285
Jal, NM 88252

March 25, 2001

Bill Olson
New Mexico Oil Conservation Division
P.O. Box 6429
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: EOTT Jalmat Shell North Site

1R-83

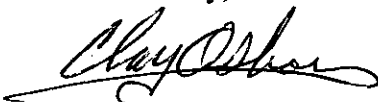
Dear Bill,

I am sending you the information on the EOTT Jalmat Shell North location that EOTT Energy cored. I am enclosing a copy of some pictures, site maps, status report on all leak sites, outline of the site with core hole locations and soil and water analyticals. This was a Shell Pipeline Co. pipeline leak.

I hope the NMOCD would require EOTT to start remediation of this site as soon as possible to stop the water pollution from spreading.

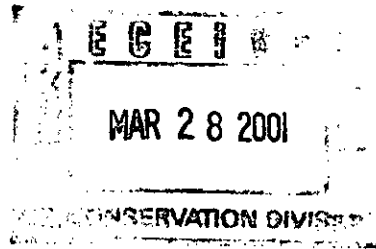
If I can help you in anyway please let me know.

Yours truly,



Clay Osborn

Enclosures (47)



ENVIRONMENTAL PLUS, INC.

SITE MAP AND LAB DATA

FOR

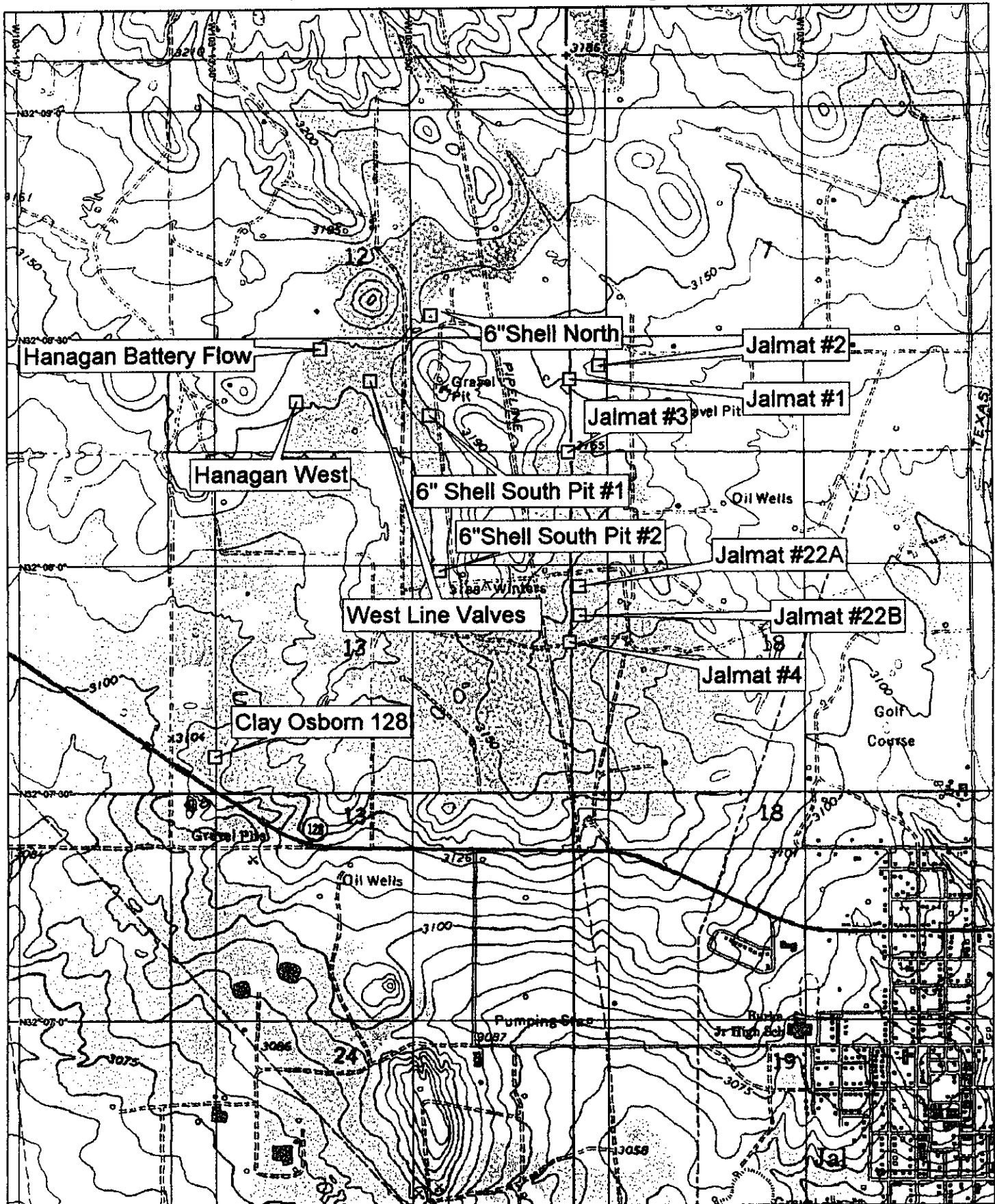
Jalmat Clay Osborn Shell North 1R-83

February 2, 2001

Prepared by

Environmental Plus, Inc.
1324 North Main Street
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601





CLAY OSBORN SITE NAME	LEAK #	VERTICAL EXTENT OF CONTAMINATION BGS	GROUND WATER IMPACTED	SURFACE AREA FT ²	STATUS
JALMAT #1	2000-10606	>45' TPH = 11810 MG/K G	POSSIBLY	5554	THE VERTICAL EXTENT OF CONTAMINATION STILL NEEDS TO BE DETERMINED. GROUND WATER MAY BE IMPACTED. DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
JALMAT #2	2000-10607	2'	NO	36710	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
JALMAT #3	2000-10610	5'	NO	4492	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
JALMAT #4	2000-10613	15'	NO	217	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
JALMAT #22A	2000-10614	15'	NO	23444	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
JALMAT #22B	2000-10616	15'	NO	10944	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
<i>JALMAT</i> 6" SHELL NORTH	2000-10615	55'	YES	95051	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT DEVELOP WORK PLAN REMEDiate SOIL AND GROUND WATER RESTORE SURFACE
6" SHELL SOUTH PIT #1	2000-10618	45'	NO	20086	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN
6" SHELL SOUTH PIT #2	2000-10619	35'	NO	17318	REMEDiate AND RESTORE SURFACE DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN

CLAY OSBORN SITE NAME	LEAK #	VERTICAL EXTENT OF CONTAMINATION BGS	GROUND WATER IMPACTED	SURFACE AREA FT ²	STATUS
HANAGAN WEST	2000-10622	5' / <i>21' water</i>	YES, BUT NOT FROM EOTT NMOCD HAS BEEN NOTIFIED	8636	DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN REMEDIATE AND RESTORE SURFACE
WEST LINE VALVES	2000-10620	15'	NO	1718	DEVELOP & SUBMIT FINAL REPORT AND WORK PLAN REMEDIATE AND RESTORE SURFACE
HANAGAN BATTERY FLOW	2000-10621	35'	?	178587	FINISH INVESTIGATION
CLAY OSBORN 128	2000-10691	?	?	55966	INVESTIGATE

E.O.T.T.
ENERGY PIPELINE
CLAY OSBORN
RANCH
JAL, NM
LEA COUNTY
S 12-13
T25S R36E



SCALE 1 IN : 1000 FT

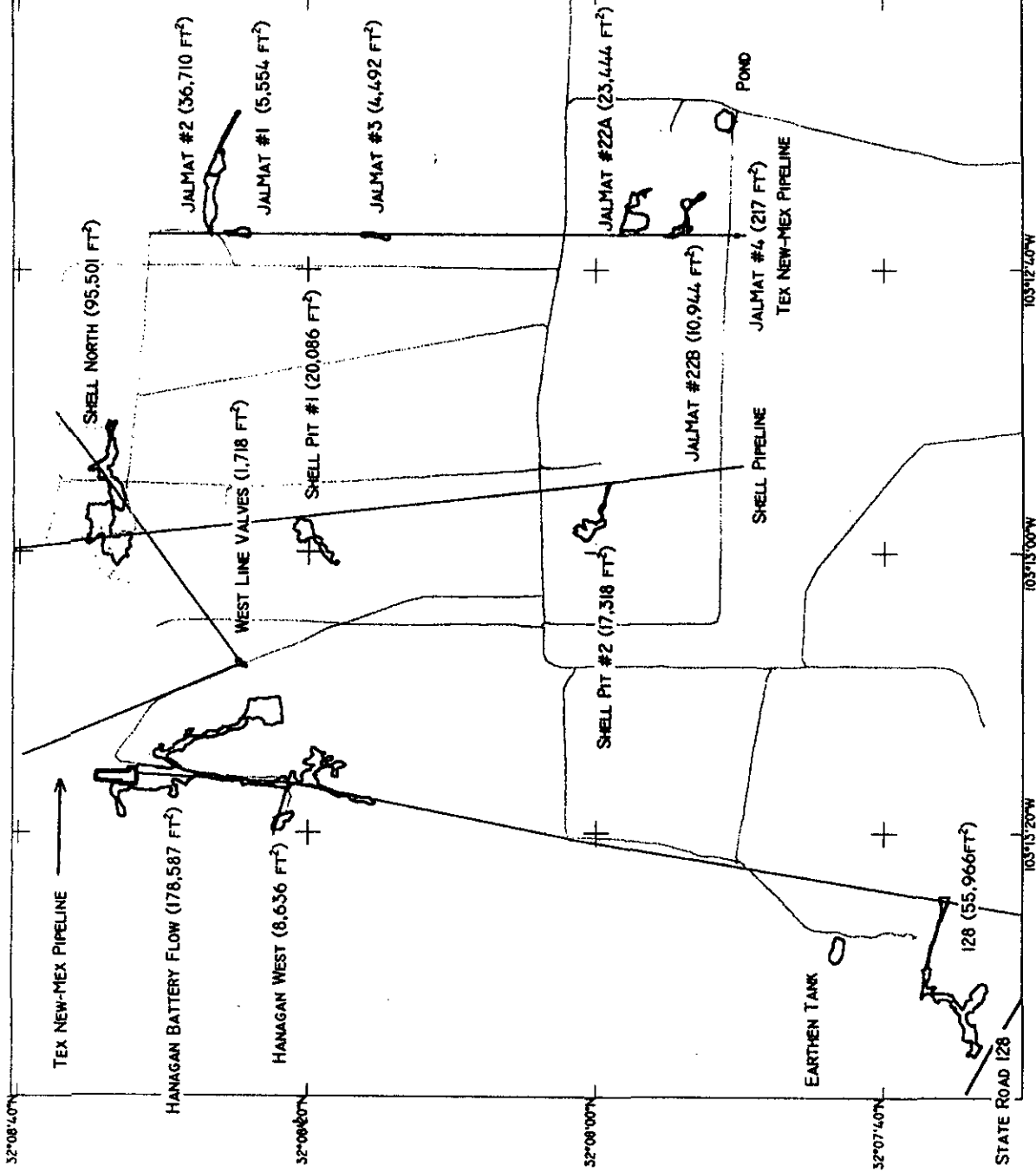


LAT/LONG
WGS 1984

CONAP91100.SSF

09/19/2000

PATHFINDER OFFICE



SUM OF AFFECTED SURFACE = 459173 FT² OR 10.54 ACRES

32°08'36"N

32°08'33"N

103°13'00"W

103°12'57"W

Clay Osborn Shell North

Lat/Long
WGS 1984



Scale 1:1100
0 0.040
Kilometers

Multiple Files
12/15/2000
Pathfinder Office
 **Trimble**

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

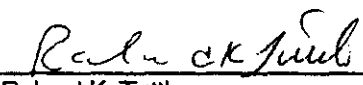
Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: See Below
Receiving Date: 08/24/00
Analysis Date: 08/30/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
29725	ECOSNGP1-02	<0.025	0.347	<0.025	0.307	0.093	08/15/00
29726	ECOSNGP1-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/15/00
29727	ECOSNGP1-10	<0.025	<0.025	<0.025	<0.025	<0.025	08/15/00
29728	ECOSNGP1-15	<0.025	<0.025	<0.025	<0.025	<0.025	08/15/00
29729	ECOSNGP2-02	<0.025	<0.025	<0.025	<0.025	<0.025	08/15/00
29730	ECOSNGP2-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/15/00
29731	ECOSNGP2-10	<0.025	0.081	<0.025	0.067	0.037	08/15/00
29732	ECOSNGP2-15	<0.025	<0.025	<0.025	0.033	<0.025	08/15/00
29733	ECOSNGP3-02	0.025	0.031	<0.025	0.052	<0.025	08/15/00
29734	ECOSNGP3-05	<0.025	0.041	<0.025	0.047	<0.025	08/15/00
29735	ECOSNGP3-10	<0.025	0.038	<0.025	<0.025	<0.025	08/15/00
29736	ECOSNGP4-02	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00
29737	ECOSNGP4-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00
29738	ECOSNGP4-10	<0.025	<0.025	0.037	0.126	0.088	08/22/00
29739	ECOSNGP4-15	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00
29740	ECOSNGP5-02	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00
29741	ECOSNGP5-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00
29742	ECOSNGP5-10	<0.025	<0.025	<0.025	<0.025	<0.025	08/22/00

% IA	102	97	98	100	95
% EA	95	102	104	112	104
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Ralnd K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , Inc.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: 08/22/00
Receiving Date: 08/24/00
Analysis Date: 08/30/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
29743	ECOSNGP5-15	0.135	0.128	0.054	0.083	0.072
29744	ECOSNGP6-02	0.243	<0.025	<0.025	<0.025	<0.025
29745	ECOSNGP6-05	<0.025	0.027	<0.025	0.111	0.061

% IA	96	95	94	94	90
% EA	93	97	97	100	93
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
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ENVIRONMENTAL LAB OF , INC.

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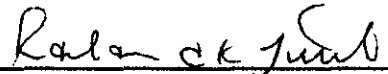
EOTT ENERGY
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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: See Below
Receiving Date: 08/24/00
Analysis Date: 08/31/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
29746	ECOSNGP6-10	<0.025	0.036	<0.025	0.177	0.118	08/22/00
29747	ECOSNGP6-15	<0.025	0.089	0.053	0.119	0.052	08/22/00
29748	ECOSNGP7-02	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29749	ECOSNGP7-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29750	ECOSNGP7-10	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29751	ECOSNGP7-15	<0.025	0.036	<0.025	0.077	0.127	08/23/00
29752	ECOSNGP8-02	<0.025	<0.025	<0.025	<0.025	0.066	08/23/00
29753	ECOSNGP8-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29754	ECOSNGP8-10	0.027	0.070	0.053	0.091	0.049	08/23/00
29755	ECOSNGP8-15	<0.025	0.030	<0.025	0.067	0.035	08/23/00
29756	ECOSNGP9-02	<0.025	<0.025	<0.025	0.026	<0.025	08/23/00
29757	ECOSNGP9-05	<0.025	0.074	<0.025	0.039	<0.025	08/23/00
29758	ECOSNGP9-10	<0.025	0.106	0.066	0.116	0.078	08/23/00
29759	ECOSNGP9-15	<0.025	<0.025	<0.025	0.034	<0.025	08/23/00
29760	ECOSNGP10-02	0.060	0.039	<0.025	<0.025	<0.025	08/23/00
29761	ECOSNGP10-05	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29762	ECOSNGP10-10	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29763	ECOSNGP10-15	<0.025	<0.025	<0.025	<0.025	<0.025	08/23/00
29764	ECOSNGP11-02	<0.025	0.032	<0.025	0.042	0.056	08/23/00
29765	ECOSNGP11-05	0.154	0.048	<0.025	<0.025	<0.025	08/23/00
% IA		100	100	100	102	97	
% EA		88	93	94	100	95	
BLANK		<0.025	<0.025	<0.025	<0.025	<0.025	

METHODS: SW 846-8021B,5030


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FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: 08/23/00
Receiving Date: 08/24/00
Analysis Date: 09/01/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
29766	ECOSNGP11-10	<0.025	<0.025	<0.025	<0.025	<0.025
29767	ECOSNGP11-15	<0.025	<0.025	<0.025	<0.025	<0.025
29768	ECOSNGP12-02	<0.025	<0.025	<0.025	<0.025	<0.025
29769	ECOSNGP12-05	<0.025	<0.025	<0.025	<0.025	<0.025
29770	ECOSNGP12-10	<0.025	0.063	<0.025	<0.025	0.025
29771	ECOSNGP12-15	<0.025	<0.025	<0.025	<0.025	<0.025
29772	ECOSNGP3-15	<0.025	<0.025	<0.025	<0.025	<0.025

% IA	88	95	100	108	102
% EA	104	106	105	110	103
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

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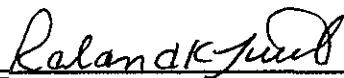
Sample Type: Soil
Sample Condition: Intact/ loed/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: See Below
Receiving Date: 08/30/00
Analysis Date: 09/01/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
30128	ECOSNGP -13-02	<0.025	<0.025	<0.025	<0.025	0.040	8/24/00
30129	ECOSNGP -13-05	0.129	<0.025	<0.025	<0.025	<0.025	8/24/00
30130	ECOSNGP -13-10	<0.025	0.067	<0.025	<0.025	<0.025	8/24/00
30131	ECOSNGP -13-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30132	ECOSNGP -14-02	<0.025	0.036	<0.025	<0.025	<0.025	8/24/00
30133	ECOSNGP -14-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30134	ECOSNGP -14-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30135	ECOSNGP -14-15	<0.025	0.050	<0.025	<0.025	<0.025	8/24/00
30136	ECOSNGP -15-02	<0.100	<0.100	<0.100	<0.100	<0.100	8/24/00
30137	ECOSNGP -15-05	<0.025	0.034	<0.025	0.034	<0.025	8/24/00
30138	ECOSNGP -15-10	0.029	0.030	<0.025	0.034	<0.025	8/24/00
30139	ECOSNGP -15-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30140	ECOSNGP -16-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00

% IA	100	100	100	102	97
% EA	88	95	100	108	102
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ loed/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: See Below
Receiving Date: 08/30/00
Analysis Date: 09/02/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
30141	ECOSNGP -16-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30142	ECOSNGP -16-10	<0.025	0.039	<0.025	<0.025	<0.025	8/24/00
30143	ECOSNGP -16-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30144	ECOSNGP -17-02	<0.025	0.039	<0.025	<0.025	<0.025	8/24/00
30145	ECOSNGP -17-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30146	ECOSNGP -17-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30147	ECOSNGP -17-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30148	ECOSNGP -18-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30149	ECOSNGP -18-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30150	ECOSNGP -18-10	<0.025	0.043	<0.025	<0.025	<0.025	8/24/00
30151	ECOSNGP -18-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/24/00
30152	ECOSNGP -19-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30153	ECOSNGP -19-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30154	ECOSNGP -19-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30155	ECOSNGP -19-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30156	ECOSNGP -20-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30157	ECOSNGP -20-05	0.036	<0.025	<0.025	<0.025	<0.025	8/25/00
30158	ECOSNGP -20-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30159	ECOSNGP -20-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30160	ECOSNGP -21-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00

% IA	104	106	105	110	103
% EA	91	98	101	107	103
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Ralanda K. Tuttle

9-12-00
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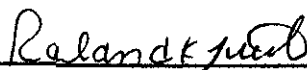
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ATTN: MR. WAYNE BRUNETTE
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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: See Below
Receiving Date: 08/30/00
Analysis Date: 09/03/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
30161	ECOSNGP -21-05	<0.025	0.034	<0.025	<0.025	<0.025	8/25/00
30162	ECOSNGP -21-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30163	ECOSNGP -21-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30164	ECOSNGP -22-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30165	ECOSNGP -22-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30166	ECOSNGP -22-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30167	ECOSNGP -22-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30168	ECOSNGP -23-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30169	ECOSNGP -23-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/25/00
30170	ECOSNGP -23-10	<0.025	<0.025	0.115	0.340	0.410	8/25/00
30171	ECOSNGP -23-15	<0.025	<0.025	0.119	0.224	0.378	8/25/00
30172	ECOSNGP -23-20	<0.025	<0.025	0.264	0.517	0.626	8/25/00
30173	ECOSNGP -23-25	<0.025	<0.025	0.252	0.288	0.477	8/25/00
30174	ECOSNGP -23-30	<0.025	<0.025	0.136	0.171	0.262	8/25/00
30175	ECOSNGP -23-35	<0.025	<0.025	0.088	0.106	0.191	8/25/00
30176	ECOSNGP -24-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30177	ECOSNGP -24-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30178	ECOSNGP -24-10	0.034	<0.025	<0.025	<0.025	<0.025	8/28/00
30179	ECOSNGP -24-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30180	ECOSNGP -25-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
% IA		97	99	98	101	95	
% EA		85	89	92	96	93	
BLANK		<0.025	<0.025	<0.025	<0.025	<0.025	

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

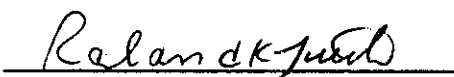
EOTT ENERGY
ATTN: MR. KEN DUTTON
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: See Below
Receiving Date: 08/30/00
Analysis Date: 09/03/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
30181	ECOSNGP -25-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30182	ECOSNGP -25-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30183	ECOSNGP -25-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30184	ECOSNGP -26-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30185	ECOSNGP -26-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30186	ECOSNGP -27-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30187	ECOSNGP -27-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30188	ECOSNGP -27-10	<0.025	<0.025	0.031	<0.025	0.039	8/28/00
30189	ECOSNGP -27-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30190	ECOSNGP -28-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30191	ECOSNGP -28-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30192	ECOSNGP -28-10	0.032	<0.025	<0.025	<0.025	<0.025	8/28/00
30193	ECOSNGP -28-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/28/00
30194	ECOSNGP -29-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
30195	ECOSNGP -29-05	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
30196	ECOSNGP -29-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
30197	ECOSNGP -29-15	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
30198	ECOSNGP -30-02	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
30199	ECOSNGP -30-05	<0.025	0.059	0.033	<0.025	<0.025	8/29/00
30200	ECOSNGP -30-10	<0.025	<0.025	<0.025	<0.025	<0.025	8/29/00
% IA		97	94	97	99	94	
% EA		94	102	103	112	104	
BLANK		<0.025	<0.025	<0.025	<0.025	<0.025	

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: 08/29/00
Receiving Date: 08/30/00
Analysis Date: 09/04/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
30201	ECOSNGP -30-15	<0.025	0.050	<0.025	<0.025	<0.025
30202	ECOSNGP -31-02	<0.025	0.076	0.043	0.048	0.028
30203	ECOSNGP -31-05	<0.025	<0.025	<0.025	<0.025	<0.025
30204	ECOSNGP -31-10	<0.025	<0.025	<0.025	<0.025	<0.025
30205	ECOSNGP -31-15	0.042	<0.025	<0.025	<0.025	<0.025

% IA	90	88	89	89	86
% EA	94	102	103	112	104
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

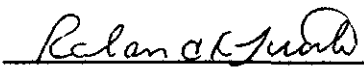
Sample Type: Soil
Sample Condition: Intact/ Iced/ 1deg. C
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: S12 T25S R36E

Sampling Date: 08/30/00
Receiving Date: 09/05/00
Analysis Date: 09/07/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
30355	ECOSNGP34-02	<0.025	<0.025	<0.025	<0.025	<0.025
30356	ECOSNGP34-05	<0.025	0.062	<0.025	<0.025	<0.025
30357	ECOSNGP34-10	<0.025	<0.025	<0.025	<0.025	<0.025
30358	ECOSNGP34-15	<0.025	0.062	<0.025	<0.025	<0.025
30359	ECOSNGP34-20	<0.025	0.027	0.086	0.135	0.130
30360	ECOSNGP34-25	<0.200	0.414	0.731	3.18	2.53
30361	ECOSNGP34-30	<0.025	0.102	0.322	1.21	0.918
30362	ECOSNGP34-35	<0.025	0.412	0.668	2.76	1.89

% IA	102	101	102	104	97
% EA	85	90	90	94	86
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ loed/ 1deg. C
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: S12 T25S R36E

Sampling Date: 08/30/00
Receiving Date: 09/05/00
Analysis Date: 09/08/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
30363	ECOSNGP34-40	<0.025	0.793	0.593	2.60	1.75
30364	ECOSNGP34-45	<0.025	0.287	0.293	1.30	0.976
30365	ECOSNGP34-50	<0.025	1.39	0.746	3.51	2.25
30366	ECOSNGP34-55	<0.025	0.543	0.352	1.64	1.07
30367	ECOSNGP33-02	<0.025	0.030	<0.025	0.045	<0.025
30368	ECOSNGP33-05	<0.025	<0.025	<0.025	<0.025	<0.025
30369	ECOSNGP33-10	<0.025	0.045	0.035	0.065	0.029
30370	ECOSNGP33-15	<0.025	0.074	<0.025	0.051	<0.025
30371	ECOSNGP32-02	<0.025	<0.025	<0.025	<0.025	<0.025
30372	ECOSNGP32-05	<0.025	0.104	0.122	0.428	0.237
30373	ECOSNGP32-10	<0.025	<0.025	0.034	0.159	0.112
30374	ECOSNGP32-15	<0.025	0.051	<0.025	<0.025	<0.025

% IA	91	89	89	90	86
% EA	87	92	94	100	95
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B.5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

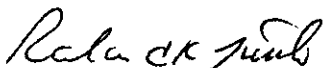
Sample Type: Soil
Sample Condition: Intact/ Iced/ 1deg. C
Project #: None Given
Project Name: Shell North
Project Location: S12 T25S R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/08/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
30375	ECOSNGP35-02	<0.025	0.034	<0.025	0.055	0.037
30376	ECOSNGP35-05	<0.025	<0.025	<0.025	0.066	0.043
30377	ECOSNGP35-10	<0.025	<0.025	<0.025	<0.025	<0.025
30378	ECOSNGP35-15	<0.025	<0.025	<0.025	<0.025	<0.025
30379	ECOSNGP36-02	<0.025	<0.025	<0.025	<0.025	<0.025
30380	ECOSNGP36-05	<0.025	<0.025	<0.025	<0.025	<0.025
30381	ECOSNGP36-10	<0.025	<0.025	<0.025	<0.025	<0.025
30382	ECOSNGP36-15	<0.025	0.041	<0.025	0.030	<0.025

% IA	91	89	89	90	86
% EA	87	92	94	100	95
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

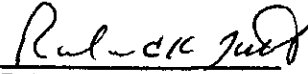
EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: See Below
Receiving Date: 08/24/00
Analysis Date: 08/29/00

ELT#	FIELD CODE	GRO	DRO	SAMPLE DATE
		C6-C10 mg/kg	>C10-C28 mg/kg	
29725	ECOSNGP1-02	<50	527	8/15/00
29726	ECOSNGP1-05	<50	60	8/15/00
29727	ECOSNGP1-10	<10	<10	8/15/00
29728	ECOSNGP1-15	<10	<10	8/15/00
29729	ECOSNGP2-02	<50	997	8/15/00
29730	ECOSNGP2-05	<10	<10	8/15/00
29731	ECOSNGP2-10	<10	<10	8/15/00
29732	ECOSNGP2-15	<10	<10	8/15/00
29733	ECOSNGP3-02	<50	1387	8/15/00
29734	ECOSNGP3-05	<10	<10	8/15/00
29735	ECOSNGP3-10	<10	<10	8/15/00
29736	ECOSNGP4-02	<10	13	8/22/00
29737	ECOSNGP4-05	<50	917	8/22/00
29738	ECOSNGP4-10	<50	880	8/22/00
29739	ECOSNGP4-15	<10	30	8/22/00
29740	ECOSNGP5-02	<10	<10	8/22/00
29741	ECOSNGP5-05	<10	<10	8/22/00
29742	ECOSNGP5-10	<10	19	8/22/00
29743	ECOSNGP5-15	<10	<10	8/22/00
29744	ECOSNGP6-02	<10	<10	8/22/00
	% IA	96	98	
	%EA	102	110	
	BLANK	<10	<10	

Methods: SW 846-8015M


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: See Below
Receiving Date: 08/24/00
Analysis Date: 08/29/00

ELT#	FIELD CODE	GRO	DRO	SAMPLE DATE
		C6-C10 mg/kg	>C10-C28 mg/kg	
29745	ECOSNGP6-05	<10	<10	8/22/00
29746	ECOSNGP6-10	<10	<10	8/22/00
29747	ECOSNGP6-15	<10	<10	8/22/00
29748	ECOSNGP7-02	<50	<50	8/23/00
29749	ECOSNGP7-05	<10	<10	8/23/00
29750	ECOSNGP7-10	<10	<10	8/23/00
29751	ECOSNGP7-15	<10	18	8/23/00
29752	ECOSNGP8-02	<10	<10	8/23/00
29753	ECOSNGP8-05	<10	<10	8/23/00
29754	ECOSNGP8-10	<10	<10	8/23/00
29755	ECOSNGP8-15	<10	<10	8/23/00
29756	ECOSNGP9-02	<50	1268	8/23/00
29757	ECOSNGP9-05	<50	6120	8/23/00
29758	ECOSNGP9-10	<50	3095	8/23/00
29759	ECOSNGP9-15	<50	3084	8/23/00
29760	ECOSNGP10-02	<10	23	8/23/00
29761	ECOSNGP10-05	<10	<10	8/23/00
29762	ECOSNGP10-10	<10	17	8/23/00
29763	ECOSNGP10-15	<10	<10	8/23/00
29764	ECOSNGP11-02	<50	209	8/23/00
	% IA	112	109	
	%EA	103	98	
	BLANK	<10	<10	

Methods: SW 846-8015M


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9-12-00
Date

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

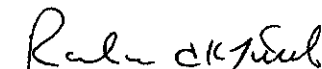
Sample Type: Soil
Sample Condition: Intact/ Iced
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: 08/23/00
Receiving Date: 08/24/00
Analysis Date: 08/30/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
29765	ECOSNGP11-05	<50	545
29766	ECOSNGP11-10	<50	669
29767	ECOSNGP11-15	<50	376
29768	ECOSNGP12-02	<50	136
29769	ECOSNGP12-05	<10	<10
29770	ECOSNGP12-10	<10	<10
29771	ECOSNGP12-15	<10	<10
29772	ECOSNGP3-15	<10	<10

% IA	96	96
%EA	108	113
BLANK	<10	<10

Methods: SW 846-8015M


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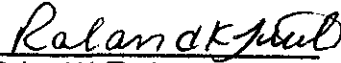
Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn / Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: 08/24/00
Receiving Date: 08/30/00
Analysis Date: 08/31/00

ELT#	FIELD CODE	GRO	DRO
		06-C10 mg/kg	>C10-C28 mg/kg
30128	ECOSNGP -13-02	<10	<10
30129	ECOSNGP -13-05	<10	433
30130	ECOSNGP -13-10	<10	167
30131	ECOSNGP -13-15	<10	211
30132	ECOSNGP -14-02	<10	<10
30133	ECOSNGP -14-05	<10	<10
30134	ECOSNGP -14-10	<10	<10
30135	ECOSNGP -14-15	<10	<10
30136	ECOSNGP -15-02	<10	214
30137	ECOSNGP -15-05	<10	148
30138	ECOSNGP -15-10	<10	<10
30139	ECOSNGP -15-15	<10	24
30140	ECOSNGP -16-02	<10	<10
30141	ECOSNGP -16-05	<10	<10

% INSTRUMENT ACCURACY	102	102
% EXTRACTION ACCURACY	95	100
BLANK	<10	<10

Methods: SW 846-8015M


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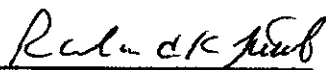
EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn / Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: SEE BELOW
Receiving Date: 08/30/00
Analysis Date: 08/31/00

ELT#	FIELD CODE	GRO	DRO	Sampling Date
		06-C10 mg/kg	>C10-C28 mg/kg	
30142	ECOSNGP -16-10	<10	<10	8/24/00
30143	ECOSNGP -16-15	<10	<10	8/24/00
30144	ECOSNGP -17-02	<10	105	8/24/00
30145	ECOSNGP -17-05	<50	280	8/24/00
30146	ECOSNGP -17-10	<50	1097	8/24/00
30147	ECOSNGP -17-15	<50	1065	8/24/00
30148	ECOSNGP -18-02	<10	<10	8/24/00
30149	ECOSNGP -18-05	<10	<10	8/24/00
30150	ECOSNGP -18-10	<10	<10	8/24/00
30151	ECOSNGP -18-15	<10	<10	8/24/00
30152	ECOSNGP -19-02	<10	<10	8/25/00
30153	ECOSNGP -19-05	<10	<10	8/25/00
30154	ECOSNGP -19-10	<10	<10	8/25/00
30155	ECOSNGP -19-15	<10	<10	8/25/00
30156	ECOSNGP -20-02	<10	<10	8/25/00
30157	ECOSNGP -20-05	<10	158	8/25/00
30158	ECOSNGP -20-10	<10	14	8/25/00
30159	ECOSNGP -20-15	<10	<10	8/25/00
30160	ECOSNGP -21-02	<50	<50	8/25/00
30161	ECOSNGP -21-05	<10	286	8/25/00
% INSTRUMENT ACCURACY		101	107	
% EXTRACTION ACCURACY		101	104	
BLANK		<10	<10	

Methods: SW 846-8015M


Raland K. Tuttle

9-12-00
Date

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ loed/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn / Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: SEE BELOW
Receiving Date: 08/30/00
Analysis Date: 09/01/00

ELT#	FIELD CODE	GRO	DRO	Sampling Date
		C6-C10 mg/kg	>C10-C28 mg/kg	
30162	ECOSNGP -21-10	<10	163	8/25/00
30163	ECOSNGP -21-15	<10	166	8/25/00
30164	ECOSNGP -22-02	<50	3013	8/25/00
30165	ECOSNGP -22-05	<10	179	8/25/00
30166	ECOSNGP -22-10	<50	586	8/25/00
30167	ECOSNGP -22-15	<50	453	8/25/00
30168	ECOSNGP -23-02	<50	70	8/25/00
30169	ECOSNGP -23-05	<10	297	8/25/00
30170	ECOSNGP -23-10	110	631	8/25/00
30171	ECOSNGP -23-15	372	3278	8/25/00
30172	ECOSNGP -23-20	774	5278	8/25/00
30173	ECOSNGP -23-25	1102	9105	8/25/00
30174	ECOSNGP -23-30	256	2022	8/25/00
30175	ECOSNGP -23-35	93	822	8/25/00
30176	ECOSNGP -24-02	<10	98	8/28/00
30177	ECOSNGP -24-05	<10	<10	8/28/00
30178	ECOSNGP -24-10	<10	<10	8/28/00
30179	ECOSNGP -24-15	<10	<10	8/28/00
30180	ECOSNGP -25-02	<10	<10	8/28/00
30181	ECOSNGP -25-05	<50	<50	8/28/00
% INSTRUMENT ACCURACY		90	97	
% EXTRACTION ACCURACY		107	98	
BLANK		<10	<10	

Methods: SW 846-8015M


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn / Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: SEE BELOW
Receiving Date: 08/30/00
Analysis Date: 09/02/00

ELT#	FIELD CODE	GRO	DRO	Sampling Date
		06-C10 mg/kg	>C10-C28 mg/kg	
30182	ECOSNGP -25-10	<10	28	8/28/00
30183	ECOSNGP -25-15	<10	<10	8/28/00
30184	ECOSNGP -26-02	<10	<10	8/28/00
30185	ECOSNGP -26-05	<10	<10	8/28/00
30186	ECOSNGP -27-02	<10	<10	8/28/00
30187	ECOSNGP -27-05	<10	<10	8/28/00
30188	ECOSNGP -27-10	<10	<10	8/28/00
30189	ECOSNGP -27-15	<10	<10	8/28/00
30190	ECOSNGP -28-02	<50	232	8/28/00
30191	ECOSNGP -28-05	<10	<10	8/28/00
30192	ECOSNGP -28-10	<10	<10	8/28/00
30193	ECOSNGP -28-15	<10	<10	8/28/00
30194	ECOSNGP -29-02	<10	<10	8/29/00
30195	ECOSNGP -29-05	<10	<10	8/29/00
30196	ECOSNGP -29-10	<10	<10	8/29/00
30197	ECOSNGP -29-15	<10	<10	8/29/00
30198	ECOSNGP -30-02	<50	83	8/29/00
30199	ECOSNGP -30-05	<50	2781	8/29/00
30200	ECOSNGP -30-10	<10	632	8/29/00
30201	ECOSNGP -30-15	<50	2160	8/29/00
% INSTRUMENT ACCURACY		114	123	
% EXTRACTION ACCURACY		103	113	
BLANK		<10	<10	

Methods: SW 846-8015M

Raland K Tuttle
Raland K. Tuttle

9-12-00
Date

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"Don't Treat Your Soil Like Dirt!"

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ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 33 deg. F
Project #: None Given
Project Name: Clay Osborn / Shell North
Project Location: Sec 12 T25S R36E

Sampling Date: 08/29/00
Receiving Date: 08/30/00
Analysis Date: 09/02/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
30202	ECOSNGP -31-02	<50	2538
30203	ECOSNGP -31-05	<50	1404
30204	ECOSNGP -31-10	<10	12
30205	ECOSNGP -31-15	<10	<10

% INSTRUMENT ACCURACY	93	92
% EXTRACTION ACCURACY	116	128
BLANK	<10	<10

Methods: SW 846-8015M


Randal K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 1deg C.
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: S12 T25S R36E

Sampling Date: 08/30/00
Receiving Date: 09/05/00
Analysis Date: 09/08/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
30355	ECOSNGP34-02	<50	1120
30356	ECOSNGP34-05	<10	88
30357	ECOSNGP34-10	<50	491
30358	ECOSNGP34-15	<50	2409
30359	ECOSNGP34-20	<50	4099
30360	ECOSNGP34-25	745	7940
30361	ECOSNGP34-30	88	883
30362	ECOSNGP34-35	687	4953
30363	ECOSNGP34-40	345	3172
30364	ECOSNGP34-45	243	4004
30365	ECOSNGP34-50	324	2500
30366	ECOSNGP34-55	210	1294
30367	ECOSNGP33-02	<50	1769
30368	ECOSNGP33-05	<10	190
30369	ECOSNGP33-10	<10	32
30370	ECOSNGP33-15	<10	<10
30371	ECOSNGP32-02	<50	2413
30372	ECOSNGP32-05	<50	1055
30373	ECOSNGP32-10	<50	1357
30374	ECOSNGP32-15	<50	4425
	% INSTRUMENT ACCURACY	102	102
	% EXTRACTION ACCURACY	112	116
	BLANK	<10	<10

Methods: SW 846-8015M


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

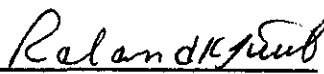
EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ Iced/ 1deg C.
Project #: None Given
Project Name: Shell North
Project Location: S12 T25S R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/10/00

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
30375	ECOSNGP35-02	<10	407
30376	ECOSNGP35-05	<10	102
30377	ECOSNGP35-10	<10	94
30378	ECOSNGP35-15	<10	39
30379	ECOSNGP36-02	<10	539
30380	ECOSNGP36-05	<10	97
30381	ECOSNGP36-10	14	3173
30382	ECOSNGP36-15	<10	2834
% INSTRUMENT ACCURACY		95	122
% EXTRACTION ACCURACY		119	107
BLANK		<10	<10

Methods: SW 846-8015M


Raland K. Tuttle

9-12-00
Date

ENVIRONMENTAL PLUS, INC.

GROUND WATER DATA

FOR

Jalmat Clay Osborn Shell North Bore Hole 34

February 2, 2001

Prepared by

Environmental Plus, Inc.
1324 North Main Street
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601



ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

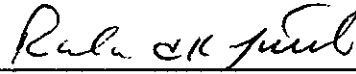
Sample Type: Water
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: None Given
Project Name: Clay Osborne Shell North
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: See Below

ELT#	FIELD CODE	Chloride mg/L	Sulfate mg/L	Carbonate mg/L	Bicarbonate mg/L
30396	ECONSGP34-GW	1968	900	<1	299

QUALITY CONTROL	5601	43.1	*	*
TRUE VALUE	5000	50.0	*	*
% PRECISION	112	86	*	*
BLANK	*	<1.0	<1	<1
ANALYSIS DATE	09/08/00	09/21/00	09/21/00	09/21/00

METHODS: EPA 325.3, 375.4, 310


Raland K. Tuttle

9-26-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: None Given
Project Name: Clay Osborne Shell North
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: See Below

ELT#	FIELD CODE	TDS mg/L	pH s.u.	Conductivity uS/cm
30396	ECONSGP34-GW	4491	7.31	6080

QUALITY CONTROL	*	7.01	1421
TRUE VALUE	*	7.00	1413
% PRECISION	*	100	101
BLANK	5	*	*
ANALYSIS DATE	09/07/00	09/15/00	09/15/00

METHODS: EPA 150.1, 160.1, 120.1


Raland K. Tuttle

9-26-00
Date

ENVIRONMENTAL LAB OF , Inc.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: S12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/11/00
Field Code: ECONSGP34-GW

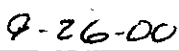
EPA SW846 8270 (mg/L)	REPORT LIMIT	ELT# 30395	RPD	%EA	%DEV
Naphthalene	0.005	ND			7.0
Acenaphthylene	0.005	ND			-2.5
Acenaphthene	0.005	ND	5	111	-12.1
Fluorene	0.005	ND			-5.6
Phenanthrene	0.005	ND			0.8
Anthracene	0.005	ND			0.5
Fluoranthene	0.005	ND			-5.1
Pyrene	0.005	ND	6	104	-8.3
Benzo[a]anthracene	0.005	ND			-2.2
Chrysene	0.005	ND			-1.3
Benzo[b]fluoranthene	0.005	ND			-1.7
Benzo[k]fluoranthene	0.005	ND			-20.5
Benzo [a]pyrene	0.005	ND			-2.5
Indeno[1,2,3-cd]pyrene	0.005	ND			29.0#
Dibenzo[a,h]anthracene	0.005	ND			23.2#
Benzo[g,h,i]perylene	0.005	ND			36.0#

% RECOVERY

Nitrobenzene-d5 SURR	75
2-Fluorobiphenyl SURR	118
p-Terphenyl-d14 SURR	124

ND= not detected at report limit.
Method: EPA SW 846 8270C , 3510


Randal K. Tuttle


Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

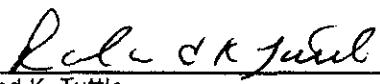
SampleType: Water
Sample Condition: Intact/ Iced/ HCl/ 1 deg. C
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: S12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/10/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/L	>C10-C28 mg/L
30397	ECONSGP34-GW	<0.50	<0.50

% IA	107	115
% EA	74	89
BLANK	<0.50	<0.50

METHODS: SW 846-8015M GRO/DRO


Raland K. Tuttle

9-26-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ 1 deg. C
Project #: None Given
Project Name: Clay Osborn Shell North
Project Location: Sec 12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/06/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
30394	ECONSGP34-GW	<0.001	0.002	<0.001	0.002	0.001

% IA	113	110	104	108	100
% EA	90	88	89	88	86
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-26-00
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

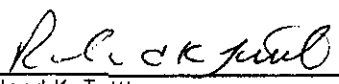
Sample Type: Water
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: None Given
Project Name: Clay Osborne Shell North
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00
Receiving Date: 09/05/00
Analysis Date: 09/19 & 09/20/00

ELT#	FIELD CODE	Na mg/L	Ca mg/L	Mg mg/L	K mg/L
30396	ECONSGP34-GW	809	224	137	6.64

% INSTRUMENT ACCURACY	104	103	96	95
% EXTRACTION ACCURACY	108	100	94	112
BLANK	<0.10	<0.10	<0.01	<0.01

METHODS: SW 846-7770, 7140, 7450, 7610


Raland K. Tuttle

9-26-00
Date

EOY Talmat Shell North 3/25/01
looking NW from Road @ NW



EOTT STALMAT Shell NORTH 3/25/01



E01T PALMAT Shell NORTH 3/25/01 Looking NORTH



EDT T PALMAT Shell NORTH 3/25/01



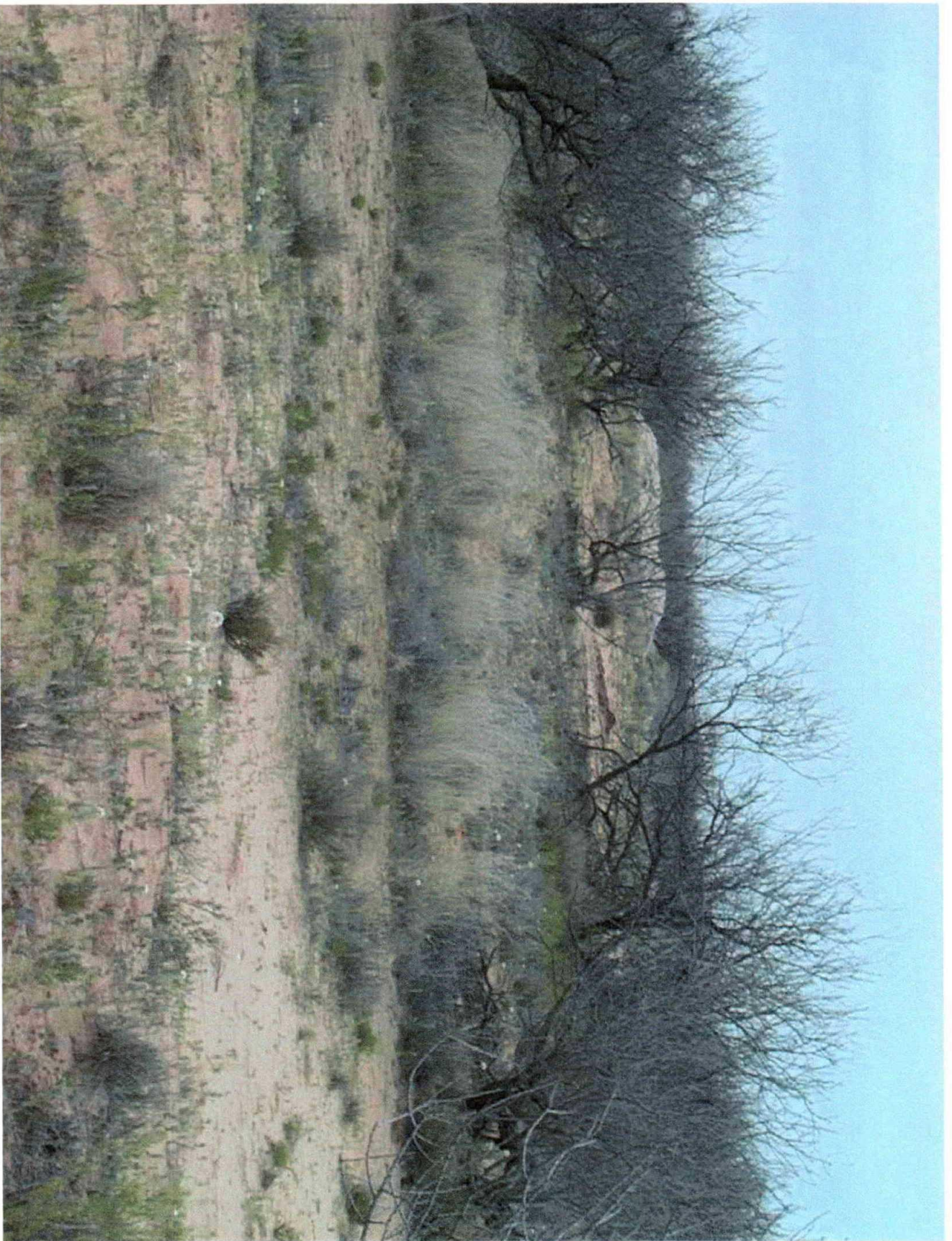
EOTT TALMAY Shell NORTH. 3/25/01



EO TT TARMAT Shell North 3125101



EOTT JALMAT Shell NORTH 3/25/01



EOT TALMAT Shell NORTH NW FROM GP24



EDT FALMUT Shell NORTH 3/25/01 Looking South



EOT FALMAT SHELL NORTH



LOTT FALMUT Shell NORTH. 3/25/01



EDT TALMAT Shell NORTH 3/25/01
LOOKING EAST.





2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

PL I.D. 111099

RECEIVED

December 15, 2001

JAN 07 2002

NMED HWB
2905 Rodeo Drive East
Bldg. 1
Santa Fe, NM 87505

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Clay Osborn
11 Rocky Top Ln.
P.O. Box 1285
Jal, NM 88252

Project Name/Number: JAL-OSBORN PROP. (NONE)

Attention: Ron Trueblood/Clay Osborn

On 11/28/01, Pinnacle Laboratories Inc., (ADHS License No. AZ0592 pending), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

All analyses were performed by EnviroTest Laboratories, LLC. Casper, WY.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
General Manager

MR:jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT : NMED HWB DATE RECEIVED : 11/28/01
PROJECT # : (NONE)
PROJECT NAME : JAL-OSBORN PROP. REPORT DATE : 12/15/01

PL ID: 111099

	PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	111099-01	CLAY OSBORN 1A C.O. 1B	NON-AQ	11/27/01
02	111099-02	C.O. 2A C.O. 2B	NON-AQ	11/27/01
03	111099-03	C.O. 3A C.O. 3B	NON-AQ	11/27/01

---TOTALS---

MATRIX
NON-AQ

#SAMPLES
3

Enviro-Test Laboratories LLC.

Chemical Analysis Report

PINNACLE LABORATORIES, INC
Attn: PROJECT MANAGER
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

Date: 13 DEC 2001

Lab Work Order #: L4169
Project P.O. #: 111099
Project Reference: NMHWB
Comments:

Date Received: 29 NOV 2001

APPROVED BY: _____

Dave Demorest

Project Manager

Sample Delivery Group Narrative

December 13, 2001

Customer: Pinnacle Laboratories, Inc.

ETL LLC Job Number: L4169

The following information is pertinent to the interpretation of the data.

The samples were received and analyzed without incident.

If you have any questions regarding the analysis of these samples, please call us at (307) 235-5741 or (800) 666-0306.


Debra Phillabaum
Quality Assurance Manager



Results are only applicable to samples submitted for analysis.
Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.



Chemical Analysis Report

PINNACLE LABORATORIES, INC
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

ATTN: PROJECT MANAGER

Project: NMHWB
Purchase Order: 111099

Page: 2 of 5

Report Date: 13-DEC-01
Work Order: L4169
Lab Sample ID: L4169-1
Client Sample ID: CLAY OSBORN 1A/111099-01
Date Collected: 27-NOV-01
Sampled By: CLIENT
Date Received: 29-NOV-01
Matrix: SOIL

Parameter	Result	Qualifier	Unit	Depth	Location	Run ID	Analyst	By
RCRA 8 METALS								
Arsenic (As)	<4	4	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Barium (Ba)	41.7	0.1	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Cadmium (Cd)	25.2	0.2	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Chromium (Cr)	4.7	0.2	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Lead (Pb)	9.6	0.4	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Mercury (Hg)	664	0.02	mg/kg	5000	R14581	11-DEC-01 10:02	ML	
Selenium (Se)	<3	3	mg/kg	10	R14591	11-DEC-01 08:38	GC	
Silver (Ag)	<0.1	0.1	mg/kg	10	R14591	11-DEC-01 08:38	GC	

Chemical Analysis Report

PINNACLE LABORATORIES, INC
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

ATTN: PROJECT MANAGER

Project: NMHWB
Purchase Order: 111099

Page: 3 of 5

Report Date: 13-DEC-01
Work Order: L4169
Lab Sample ID: L4169-2
Client Sample ID: CLAY OSBORN 2A/111099-02
Date Collected: 27-NOV-01
Sampled By: CLIENT
Date Received: 29-NOV-01
Matrix: SOIL

Parameter	Result	Units	DP	Run ID	Analyst	By
RCRA 8 METALS						
Arsenic (As)	<4	4	mg/kg	10	R14591	11-DEC-01 08:40 GC
Barium (Ba)	145	0.1	mg/kg	10	R14591	11-DEC-01 08:40 GC
Cadmium (Cd)	7.7	0.2	mg/kg	10	R14591	11-DEC-01 08:40 GC
Chromium (Cr)	5.1	0.2	mg/kg	10	R14591	11-DEC-01 08:40 GC
Lead (Pb)	3.8	0.4	mg/kg	10	R14591	11-DEC-01 08:40 GC
Mercury (Hg)	2.23	0.02	mg/kg	10	R14581	11-DEC-01 10:02 ML
Selenium (Se)	<3	3	mg/kg	10	R14591	11-DEC-01 08:40 GC
Silver (Ag)	<0.1	0.1	mg/kg	10	R14591	11-DEC-01 08:40 GC

Chemical Analysis Report

PINNACLE LABORATORIES, INC
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

ATTN: PROJECT MANAGER

Project: NMHWB
Purchase Order: 111099

Page: 4 of 5

Report Date: 13-DEC-01
Work Order: L4169
Lab Sample ID: L4169-3
Client Sample ID: CLAY OSBORN 3A/111099-03
Date Collected: 27-NOV-01
Sampled By: CLIENT
Date Received: 29-NOV-01
Matrix: SOIL

RCRA 8 METALS

Arsenic (As)	<4	4	mg/kg	10	R14591	11-DEC-01 08:42	GC
Barium (Ba)	38.7	0.1	mg/kg	10	R14591	11-DEC-01 08:42	GC
Cadmium (Cd)	1.2	0.2	mg/kg	10	R14591	11-DEC-01 08:42	GC
Chromium (Cr)	7.0	0.2	mg/kg	10	R14591	11-DEC-01 08:42	GC
Lead (Pb)	5.3	0.4	mg/kg	10	R14591	11-DEC-01 08:42	GC
Mercury (Hg)	14.8	0.02	mg/kg	50	R14581	11-DEC-01 10:02	ML
Selenium (Se)	<3	3	mg/kg	10	R14591	11-DEC-01 08:42	GC
Silver (Ag)	<0.1	0.1	mg/kg	10	R14591	11-DEC-01 08:42	GC

Reference Information

Page: 5 of 5
Report Date: 13-DEC-01
Work Order: L4169

The following is the Description of sample Qualifiers where applicable:

The following Preparation/Extraction Methods were performed:

ETL Test Code and Matrix		Test Description	Methodology Reference (Based On)
AG-CA	Soil	Silver (Ag)	sw486 3050b
AS-CA	Soil	Arsenic (As)	sw486 3050b
BA-CA	Soil	Barium (Ba)	sw486 3050b
CD-CA	Soil	Cadmium (Cd)	sw486 3050b
CR-CA	Soil	Chromium (Cr)	sw486 3050b
PB-CA	Soil	Lead (Pb)	sw486 3050b
SE-CA	Soil	Selenium (Se)	sw486 3050b
AG-CA	Soil	Silver (Ag)	
AS-CA	Soil	Arsenic (As)	
BA-CA	Soil	Barium (Ba)	
CD-CA	Soil	Cadmium (Cd)	
CR-CA	Soil	Chromium (Cr)	
HG-HYD-CA	Soil	Mercury (Hg)	
PB-CA	Soil	Lead (Pb)	
SE-CA	Soil	Selenium (Se)	

The following Analytical Methods were performed:

ETL Test Code and Matrix		Test Description	Methodology Reference (Based On)
AG-CA	Soil	Silver (Ag)	SW 846 6020-ICP-MS
AS-CA	Soil	Arsenic (As)	SW 846 6020-ICP-MS
BA-CA	Soil	Barium (Ba)	SW 846 6010-ICP
CD-CA	Soil	Cadmium (Cd)	SW 846 6020-ICP-MS
CR-CA	Soil	Chromium (Cr)	SW 846 6010-ICP
HG-HYD-CA	Soil	Mercury (Hg)	SM 3112 B-AAS Cold Vapor
PB-CA	Soil	Lead (Pb)	SW 846 6020-ICP-MS
SE-CA	Soil	Selenium (Se)	SW 846 6020-ICP-MS



Results are only applicable to samples submitted for analysis.
Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.



ENVIRO-TEST QC REPORT

Client: PINNACLE LABORATORIES, INC
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

Page 1 of 3
Report Date: Dec. 13, 2001
Workorder: L4169

Contact: PROJECT MANAGER

Sample	Matrix	Reference	Result	Qualifier	Unit	Limit	Analyzed
AG-CA Soil							
Batch	R14591						
WG11712-1	BLANK						
Silver (Ag)			<0.1		mg/kg		11-DEC-01
WG11712-2	LCS						
Silver (Ag)			83		%	Amount 207 0-245	11-DEC-01
AS-CA Soil							
Batch	R14591						
WG11712-1	BLANK						
Arsenic (As)			<4		mg/kg		11-DEC-01
WG11712-2	LCS						
Arsenic (As)			97		%	Amount 184 56-132	11-DEC-01
BA-CA Soil							
Batch	R14591						
WG11712-1	BLANK						
Barium (Ba)			<0.1		mg/kg		11-DEC-01
WG11712-2	LCS						
Barium (Ba)			98		%	Amount 148 70-134	11-DEC-01
CD-CA Soil							
Batch	R14591						
WG11712-1	BLANK						
Cadmium (Cd)			<0.2		mg/kg		11-DEC-01
WG11712-2	LCS						
Cadmium (Cd)			88		%	Amount 219 58-113	11-DEC-01
CR-CA Soil							
Batch	R14591						
WG11712-1	BLANK						
Chromium (Cr)			<0.2		mg/kg		11-DEC-01
WG11712-2	LCS						
Chromium (Cr)			95		%	Amount 117 60-128	11-DEC-01
HG-HYD-CA Soil							
Batch	R14581						
WG11737-1	BLANK						
Mercury (Hg)			<0.02		mg/kg		11-DEC-01
WG11737-2	LCS						
Mercury (Hg)			107		%	Amount 3.04 80-120	11-DEC-01
WG11737-3	MS	L4094-9					
Mercury (Hg)			114		%	Amount 2 70-130	11-DEC-01
WG11737-4	MSD	WG11737-3					
Mercury (Hg)					mg/kg	RPD 1.7 20	11-DEC-01

ENVIRO-TEST QC REPORT

Client: PINNACLE LABORATORIES, INC
2709D PAN AMERICAN FREEWAY NE
ALBUQUERQUE NM 87107

Page 2 of 3
Report Date: Dec. 13, 2001
Workorder: L4169

Contact: PROJECT MANAGER

Test	Matrix	Reference	Result	Qualifier	Units	Limit	Analyzed
------	--------	-----------	--------	-----------	-------	-------	----------

PB-CA		Soil					
Batch R14591							
WG11712-1		BLANK					
Lead (Pb)		<0.4			mg/kg		11-DEC-01
WG11712-2		LCS					
Lead (Pb)		102			%	Amount 110 59-136	11-DEC-01
SE-CA		Soil					
Batch R14591							
WG11712-1		BLANK					
Selenium (Se)		<3			mg/kg		11-DEC-01
WG11712-2		LCS					
Selenium (Se)		103			%	Amount 95.9 54-129	11-DEC-01

Product - Batch and Sample Number Relations:

AG-CA	R14591	2	L4169-1	L4169-2	L4169-3
AS-CA	R14591	2	L4169-1	L4169-2	L4169-3
BA-CA	R14591	2	L4169-1	L4169-2	L4169-3
CD-CA	R14591	2	L4169-1	L4169-2	L4169-3
CR-CA	R14591	2	L4169-1	L4169-2	L4169-3
HG-HYD-CA	R14581	2	L4169-1	L4169-2	L4169-3
PB-CA	R14591	2	L4169-1	L4169-2	L4169-3
SE-CA	R14591	2	L4169-1	L4169-2	L4169-3

Reference Information

Page 3 of 3
Report Date: Dec. 13, 2001
Work Order L4169

The following is a description of Sample types that where applicable:

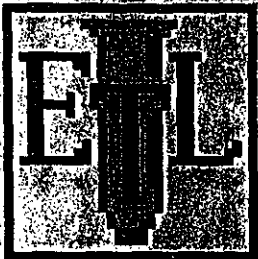
BLANK	Laboratory Blank
LCS	Laboratory Control Spike
MS	Matrix Spike
MSD	Matrix Spike Duplicate

The following is a description of sample Qualifiers that where applicable:



Results are only applicable to samples submitted for analysis.
Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.





ENVIROTEST LABORATORIES

Login Chain of Custody Report (In01)

Nov. 29, 2001

11:20 AM

Login Number: L4169

Quote Number:

Account:

10185

PINNACLE LABORATORIES, INC

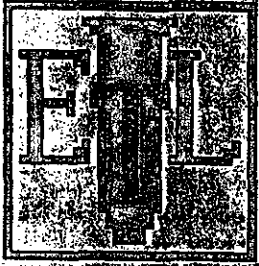
Project:

Page: 1 of 2

Lab SMP#	Client Sample Number	Collect Date	Receive Date	Dis PR Date	Comments
L4169-1	CLAY OSBORN 2A/111099-01	27-NOV-01 13:00	28-NOV-01	12-DEC-01	
Soil	P METAL RCRA-CA	Hold			250 ML Jar 2 Bottles
Soil	C AG-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C AS-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C BA-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C CD-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C CR-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C HG-HYD-CA	Hold 26-MAY-02			250 ML Jar 2 Bottles
Soil	C PB-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C SE-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	S SOIL-METAL-PREP-C	Hold 25-DEC-01			250 ML Jar 2 Bottles
L4169-2	CLAY OSBORN 2A/111099-02	27-NOV-01 13:15	28-NOV-01	12-DEC-01	
Soil	P METAL RCRA-CA	Hold			250 ML Jar 2 Bottles
Soil	C AG-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C AS-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C BA-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C CD-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C CR-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C HG-HYD-CA	Hold 26-MAY-02			250 ML Jar 2 Bottles
Soil	C PB-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C SE-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	S SOIL-METAL-PREP-C	Hold 25-DEC-01			250 ML Jar 2 Bottles

Signature :

Michelle Bunde



ENVIROTEST LABORATORIES

Login Chain of Custody Report (In01)

Nov. 29, 2001

11:20 AM

Login Number: L4169

Quote Number:

Account: 10185

PINNACLE LABORATORIES, INC

Project:

Page: 2 of 2

Contact:

Report Address:

Phone:

Email:

Report Type:

Lab SMP#	Client Sample Number	Collect Date	Receive Date	Due PR Date	Comments
L4169-3	CLAY OSBORN SA/111089-03	27-NOV-01 13:30	29-NOV-01	12-DEC-01	
Soil	P METAL-RORAB-CA	Hold			250 ML Jar 2 Bottles
Soil	C AG-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C AS-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	O BA-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	O CD-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C CR-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	O HG-HYD-CA	Hold 26-MAY-02			250 ML Jar 2 Bottles
Soil	C PB-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	C SE-CA	Hold 25-DEC-01			250 ML Jar 2 Bottles
Soil	S SOIL-METAL-PREP-C	Hold 25-DEC-01			250 ML Jar 2 Bottles

Signature :

Michelle Perle

Date:

11/29



Client	<u>Pinnacle</u>	Job Number	<u>L4169</u>
--------	-----------------	------------	--------------

Samples Shipped	<u>UPS</u>	Federal Express	Airborn:
Samples Hand Delivered	Client	ETL Lab Courier	Other:

*Air Bill #: <u>12 878 168 01 4397 2143</u>	# of Packages Received: <u>1</u>
---	----------------------------------

	Yes	No	NA	Comments
1. Chain - of - Custody present?	✓			If no, please fill one out.
2. Are the COC and sample labels legible?	✓			
3. Custody Seal on shipping container?		✓		
If yes, intact on shipping container?				
4. Custody seals on sample containers?		✓		
If yes, intact on sample container?				
5. Samples chilled?	✓			
Is temperature of cooler: $4 \pm 2^{\circ}\text{C}$?	✓			*Record temp: <u>10C</u>
6. Samples received intact (good condition)?	✓			
If volatiles required, any with headspace?				
7. Adequate sample volume provided?	✓			
8. Samples preserved correctly?	✓			Na ₂ S ₂ O ₃ , ZnAc, HNO ₃ , HCl
Circle preservative types in shipment				H ₂ SO ₄ , NaOH, <u>Plain</u> , Other
9. Correct containers used?	✓			
10. Samples received within holding time?	✓			
11. Agreement between COC and sample labels?	✓			
12. Gamma Screen $\mu\text{R}/\text{Hr}$ @ surface within Bkg?	✓			FOR INTERNAL USE ONLY <u>@ Bkg</u>
13. Samples OK to release to Lab/Screening?	✓			

Additional Comments: _____

Sample Container (size/material): 6) 250ml jars

Received and inspected by: LRS Date/Time: 11/29/01 0945

* = for multiple packages, see attached page(s) for shipping numbers and temperatures.

1495 Real Estate

(505) 344-3777 Fax (505) 344-4413

Need 2 week TAT due 12/12.

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT #:	11099	Total Number of Containers		PENSACOLA - STL-FL		Signature:		Signature:	
ROJ. NAME:	NM HUB	Chain of Custody Seals		ESL - OR		Printed Name:		Printed Name:	
IC LEVEL:	STD. IV	Received Intact?		STL - CT		Date:		Date:	
REQUIRED:	MS MSD BLANK	Received Good Cond./Cold		ATEL - AZ		Signature:		Signature:	
AT:	STANDARD RUSH!!	LAB NUMBER:		ATEL - MARION		Printed Name:		Printed Name:	
				ATEL - MELMORE		Time:		Time:	
COMMENTS:				BARRINGER		Signature:		Signature:	
UE DATE:	12/12			ENVIRO TEST LABS		Printed Name:		Printed Name:	
USH SURCHARGE:	-			WQAS		Date:		Date:	
CLIENT DISCOUNT:	-			WOHL		Signature:		Signature:	
SPECIAL CERTIFICATION						Printed Name:		Printed Name:	
REQUIRED: YES/NO						Date:		Date:	
						Company		Company	



Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 11/23/01 PAGE: 1 OF 1

PEI 1009

PROJECT INFORMATION		PROJECT AUTHORIZATION IS REQUIRED FOR PUSH PROJECTS		RELINQUISHED BY		RECEIVED BY	
PROJ. NO.:		(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK	(NORMAL) ☒	Signature:	Time:	Signature:	Time:
PROJ. NAME:	JAL - OSBORNE PROP.	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER		Printed Name:	Date:	Printed Name:	Date:
P.O. NO.:		METHANOL PRESERVATION ☐		Company:		Company:	
SHIPPED VIA:		COMMENTS: FIXED FEE ☐		See reverse side (Pence Magazine)			
SAMPLE RECEIPT		RECEIVED BY (LAB)					
NO. CONTAINERS:	0	Signature: [Signature]					
CUSTOMER'S NAME:	OSBORNE	Printed Name: [Name]					
DATE RECEIVED:	11/23/01	Date: [Date]					
LAB USE ONLY		Company: [Company]					

PROJECT MANAGER: Ron Trueblood		ANALYSIS REQUEST	
COMPANY:	NM60 - HWB		
ADDRESS:	2905 RODEO PARK DR EAST		
	BLDG 1, SANTA FE, NM, 87505		
PHONE:	(505) 428-2522		
FAX:	(505) 428-2567		
BILL TO:	SAME		
COMPANY:			
ADDRESS:			

SAMPLE ID	DATE	TIME	ANALYSIS REQUEST
CLAY OSBORNE A	11/21/01	1300	SOIL
C. O. 1 B		1300	"
C. O. 2 A		1315	"
C. O. 2 B		1315	"
C. O. 3 A		1330	"
C. O. 3 B		1330	SOIL

ANALYSIS REQUEST		RELINQUISHED BY		RECEIVED BY	
Petroleum Hydrocarbons (418.1) TPH		Signature:	Time:	Signature:	Time:
(MOD.8015) Diesel/Direct Inject		Printed Name:	Date:	Printed Name:	Date:
(M8015) Gas/Purge & Trap		Company:		Company:	
8021 (BTEX)/8015 (Gasoline) MTBE		See reverse side (Pence Magazine)			
8021 (BTEX) ☐ MTBE ☐ PCE					
8021 (TCL)					
8021 (EDX)					
8021 (HALO)					
8021 (CUST)					
50.1 EDB ☐ DBCP ☐					
8260 (TCL) Volatile Organics					
8260 (Full) Volatile Organics					
8260 (CUST) Volatile Organics					
8260 (Landfill) Volatile Organics					
Pesticides /PCB (608/8081/8082)					
Herbicides (615/8151)					
Base/Neutral/Acid Compounds GC/MS (625/8270)					
Polynuclear Aromatics (610/8310/8270-SIMS)					
General Chemistry:					
Priority Pollutant Metals (13)					
Target Analyte List Metals (23)					
RCRA Metals (8)					
RCRA Metals by TCLP (Method 1311)					
Metals:					

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.



ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

Micro-Blaze

Micro-Blaze Oil™

December 4, 2001

RECEIVED

JAN 07 2002

Mr. Wayne Brunette
Enron Transportation Services
5805 East Highway 80
Midland, Texas 79701

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Subject: Clay Osborn Ranch House Water Wells Sampling Event October 22, 2001

Dear Mr. Brunette,

The attached letter report summarizes the referenced sampling event and documents the concentrations of the constituents of concern obtained from samples collected during the event and analyzed by E.O.T.T. The report is being submitted prior to receipt of the New Mexico Environment Department Drinking Water Bureau data and will be revised if necessary at that time.

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively.

Sincerely,

Pat McCasland
EPI Technical Services Manager

cc: Cutty Cunningham, Enron
Lisa Brown, NMED Drinking Water Bureau
Clay Osborn, Rocky Top Ranch
Ben Miller, EPI Vice President and General Manager
Sherry Miller, EPI President
file

Bill
A Copy of some
of the info. you
wanted,
2-Reports
Clay Osborn

ENVIRONMENTAL PLUS, INC.

E.O.T.T. Energy Pipeline

CLAY OSBORN RANCH HOUSE WATER WELLS SAMPLING EVENT

Section 18 T25S R37E
~½ mile North of Jal, Lea County, New Mexico

OF

OCTOBER 22, 2001

NARRATIVE & ANALYTICAL RESULTS

Prepared by

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601



Clay Osborn House Wells Sampling Event

October 22, 2001 @ 0930 hours

Present:

- Lisa Brown, New Mexico Environment Department (NMED), Drinking Water Bureau
- Rozanne Johnson, NMED, Drinking Water Bureau
- Mark Fletcher, Hobbs News Sun, Reporter
- Tammy McKinley, Hobbs News Sun, Photographer
- Pat McCasland, Environmental Plus, Inc., representing E.O.T.T. Energy Pipeline
- Darrold and JoAnn Stephenson, Lea County Commissioner, Jal resident
- Clay and Jerry Osborn, residents

Background

E.O.T.T. Energy Pipeline (EOTT) is in the process of investigating and remediating several historical crude oil release sites on the Rocky Top Ranch owned by Clay and Jerry Osborn; all sites are located west of the ranch headquarters, the "EOTT Clay Osborn Jalmat #1" site is located ~.8 mile northwest and up gradient. The Osborn's reside in the headquarter dwelling located less than one half mile north of Jal, New Mexico and are currently using the three wells for agricultural and domestic purposes only. Drinking water is purchased locally.

During site investigation activities at the "EOTT Clay Osborn Jalmat #1" site (ref.# 2000-10606) in July 2001, ground water was encountered at ~45'bgs and subsequently sampled for the New Mexico Water Quality Control Commission (WQCC) ground water parameters. Analyses revealed that Iron, Manganese, Aluminum, Boron, Fluoride, Chloride, Sulfate, Total Dissolved Solids, and Total Mercury were observed to be elevated above the reference data from the "EOTT Clay Osborn Jalmat #22A" site Pond Well concentrations and the New Mexico WQCC standards. In addition, nominal concentrations of Lead, Benzene, Toluene, Xylene, and Naphthalene were detected but are an order of magnitude below the standards. The EOTT crude oil source term/waste stream is restricted to hydrocarbon and is not considered the source of the inorganic contamination. The analytical laboratory, AnalySys, Inc. of Austin, Texas confirmed that the quality control/quality assurance documentation supporting the results was legitimate and that there were no procedural upsets during the analyses. Subsequently, EPI on behalf of and with the direction from EOTT, notified the NMOCD Santa Fe and Hobbs offices of the exceedances in accordance with the requirements of 19 NMAC 15.116. The Osborns were also notified. The "EOTT Clay Osborn Jalmat #22A" site Pond Well was installed during the 1990's to monitor ground water following a Texas-New Mexico Pipeline leak and is located transverse gradient and ~1 mile southeast of the ranch house wells and is currently representative of historic background levels.

The Stephensons live approximately 1 mile south southwest of the Osborn residence and use two water wells for drinking and domestic and agricultural purposes. In October 2001, elevated levels of Mercury were detected in Joann Stephenson. In an effort to identify the source(s) of the Mercury, the Osborns and Stephensons reviewed ground water data available for their wells to but found that Mercury had not be tested for. On the recommendation of the Doctor, Mrs. Stephenson had all amalgam dental work removed and begin using verifiably clean drinking water.

Subsequently, with assistance from the New Mexico Oil Conservation Division and the NMED Hazardous and Radioactive Materials Bureau, the NMED Drinking Water Bureau agreed to collect and analyze well samples as a courtesy to the residents. EOTT's request to collect and analyze split samples was also granted. The sampling event occurred on Monday October 22, 2001 beginning at 9:30 A.M. at the Osborn's residence. An article concerning the event and local environmental issues appeared in the October 28, 2001 Hobbs News Sun.

On Friday October 19, 2001, during ranch reconnaissance, Clay Osborn observed small droplets of elemental Mercury present on the soil surface beneath an abandoned 4" natural gas pipeline metering loop located less than .5 mile west and up-gradient of his dwelling. The NMED and the Hobbs News Sun toured the location on October 22, 2001 and observed the Mercury. Mr. Osborn said the NMED Hazardous and Radioactive Materials Bureau is planning to investigate the site.

Sampling Event 10-22-01

The wells were purged for at least 5 minutes before sampling. The NMED collected a one gallon aliquot in a certifiably clean cubitainer and decanted/split the sample into two quart cubitainers. The samples were preserved with 5 ml of concentrated Nitric Acid provided by the NMED and not filtered. EPI accepted each split sample on behalf of EOTT and placed on ice. The NMED samples were analyzed by the New Mexico State Laboratory Division (SLD) in Albuquerque, New Mexico and the EOTT samples by AnalySys, Inc. of Austin, Texas.

Sample Identification

NMED#: Private Homeowner - Clay Osborn Well #1 (east house well) @10:00
EOTT #: ECO102201-EHWell (Clay Osborn East House Well)

NMED#: Private Homeowner - Clay Osborn Well #2 (middle house well) @ 10:21
EOTT #: ECO102201-MHWell (Clay Osborn Middle House Well)

NMED#: Private Homeowner - Clay Osborn Well #3 (west house well) @ 10:39
EOTT #: ECO102201-EHWell (Clay Osborn West House Well)

NMED#: Private Homeowner - Darrold Stephenson Well #1 (Goedcke well) @ 11:05
EOTT #: EDS102201- Well#1 (Did not Analyze)

NMED#: Private Homeowner - Darrold Stephenson Well #2 (south well) @ 11:23
EOTT #: EDS102201-Well#2 (Did not Analyze)

Analytical Suite

- New Mexico Safe Drinking Water Act Group I inorganics and Maximum Contaminant Levels (MCLs), i.e.,

Antimony (0.006 mg/L)
Arsenic (0.05 mg/L)
Barium (2 mg/L)
Beryllium (0.004 mg/L)

Cadmium (0.005 mg/L)
Chromium (0.1 mg/L)
Mercury (0.002 mg/L)
Nickel (0.1 mg/L)

Selenium (0.05 mg/L)
Thallium (0.002 mg/L)

- Lead (0.015 mg/L)

Discussion of Data

Please note that the Stephenson well samples were accepted but not analyzed. There were no exceedances of the MCLs observed in the Clay Osborn water well data. Barium was detected in each of the Osborn wells but only nominally and 3 orders of magnitude below the MCL. Chromium was detected above the detection limit in the Clay Osborn West House Well at 0.0062 mg/L, just above the instrument detection limit and 3 orders of magnitude below the MCL of 0.01 mg/L. The original analytical reports are attached and summarized below.

Clay Osborn Ranch House Wells Data Summary					
Parameter	Units	MCL	West House Well	Middle House Well	East House Well
			ECO102201-WHWell	ECO102201-MHWell	ECO102201-EHWell
Antimony	mg/L	0.006	<0.003	<0.003	<0.003
Arsenic	mg/L	0.05	<0.02	<0.05	<0.05
Barium	mg/L	2	0.0385	0.0599	0.0345
Beryllium	mg/L	0.004	<0.001	<0.004	<0.004
Cadmium	mg/L	0.005	<0.002	<0.005	<0.005
Chromium	mg/L	0.1	0.0062	<0.01	<0.01
Lead	mg/L	0.015	<0.01	<0.01	<0.01
Mercury	mg/L	0.002	<0.0002	<0.0002	<0.0002
Nickel	mg/L	0.1	<0.01	<0.02	<0.02
Selenium	mg/L	0.05	<0.02	<0.05	<0.05
Thallium	mg/L	0.002	<0.002	<0.002	<0.002

Original Analytical Reports

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 121644 **Report Date:** 11/06/01
Project ID: 2000-10606 Clay Osborn Jalmat #1
Sample Name: ECO102201-WHWell
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 11:08
Date Sampled: 10/22/2001 **Time:** 10:39

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Metals Dig.-Hg	---	---	---	---	11/01/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	10/31/01	3015	---	---	---	---	---
Antimony/GFAA	<0.003	mg/L	0.003	<0.003	11/01/01	7041 & 204.2	J	6.1	109.31	119.85	105.2
Arsenic/ICP	<0.02	mg/L	0.02	<0.02	11/01/01	6010 & 200.7	J	2.66	95.08	99.8	95.32
Barium/ICP	0.0385	mg/L	0.005	<0.005	11/01/01	6010 & 200.7	---	5.07	90	97.75	91.85
Beryllium/ICP	<0.001	mg/L	0.001	<0.001	11/01/01	6010 & 200.7	---	1.91	99.34	93.75	100
Cadmium/ICP	<0.002	mg/L	0.002	<0.002	11/01/01	6010 & 200.7	---	0.05	99.74	95	102.48
Chromium/ICP	0.0062	mg/L	0.005	<0.005	11/01/01	6010 & 200.7	---	0.32	94.52	99.88	100.96
Lead/ICP*LL	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	J	2.5	92.15	100.75	98.78
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/02/01	245.1&7470	---	5.71	103.03	100	98.67
Nickel/ICP	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	J	2.61	91.79	100	100.18
Selenium/ICP	<0.02	mg/L	0.02	<0.02	11/01/01	6010 & 200.7	J	2.73	76.22	94.68	78.38
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	11/01/01	279.2&7841	---	0.4	115.83	119.5	95.2

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Exceptions Report:

Report #/Lab ID#: 121644 Matrix: water
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2000-10606 Clay Osborn Jalmat #1
Sample Name: ECO102201-WHWell

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "fit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualifier	Comment
Antimony/GFAA	J	See J-flag discussion above.
Arsenic/ICP	J	See J-flag discussion above.
Lead/ICP*LL	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.
Attn: Pat McCasland
Address: 1324 M.St Po Box
Eunice NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 121645 **Report Date:** 11/06/01
Project ID: 2000-10606 Clay Osborn Jalmat #1
Sample Name: ECO102201-MHWWell
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 11:08
Date Sampled: 10/22/2001 **Time:** 10:21

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Metals Dig.-Hg	---	---	---	---	11/01/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3	---	---	---	---	10/31/01	3015	---	---	---	---	---
Antimony/GFAA	<0.003	mg/L	0.003	<0.003	11/01/01	7041 & 204.2	---	6.1	109.31	119.85	105.2
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/01/01	6010 & 200.7	---	2.66	95.08	99.8	95.32
Barium/ICP	0.0599	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	5.07	90	97.75	91.85
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/01/01	6010 & 200.7	---	1.91	99.34	93.75	100
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/01/01	6010 & 200.7	---	0.05	99.74	95	102.48
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	0.32	94.52	99.88	100.96
Lead/ICP*LL	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	2.5	92.15	100.75	98.78
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/02/01	245.1&7470	---	5.71	103.03	100	98.67
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/01/01	6010 & 200.7	J	2.61	91.79	100	100.18
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/01/01	6010 & 200.7	J	2.73	76.22	94.68	78.38
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	11/01/01	279.2&7841	---	0.4	115.83	119.5	95.2

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Exceptions Report:

Report #/Lab ID#:121645 Matrix: water
Client: Environmental Plus, Inc. Attn: Pat McCasland
Project ID: 2000-10606 Clay Osborn Jalmat #1
Sample Name: ECO102201-MHWWell

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Nickel/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.

Notes:

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 1324 M.St Po Box
Eunice NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 121646 **Report Date:** 11/06/01

Project ID: 2000-10606 Clay Osborn Jalmat #1

Sample Name: ECO102201-EHWell

Sample Matrix: water

Date Received: 10/26/2001 **Time:** 11:08

Date Sampled: 10/22/2001 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Metals Dig.-Hg	---	---	---	---	11/02/01	7470 & 245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	10/31/01	3015	---	---	---	---	---
Antimony/GFAA	<0.003	mg/L	0.003	<0.003	11/01/01	7041 & 204.2	---	6.1	109.31	119.85	105.2
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/01/01	6010 & 200.7	---	2.66	95.08	99.8	95.32
Barium/ICP	0.0345	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	5.07	90	97.75	91.85
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/01/01	6010 & 200.7	---	1.91	99.34	93.75	100
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/01/01	6010 & 200.7	---	0.05	99.74	95	102.48
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	0.32	94.52	99.88	100.96
Lead/ICP*LL	<0.01	mg/L	0.01	<0.01	11/01/01	6010 & 200.7	---	2.5	92.15	100.75	98.78
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/05/01	245.1 & 7470	---	0.89	114.14	87	107.33
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/01/01	6010 & 200.7	---	2.61	91.79	100	100.18
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/01/01	6010 & 200.7	J	2.73	76.22	94.68	78.38
Thallium/GFAA	<0.002	mg/L	0.002	<0.002	11/01/01	279.2 & 7841	---	0.4	115.83	119.5	95.2

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CLAY OSBORN RANCH SITES SUMMARY APRIL 2004

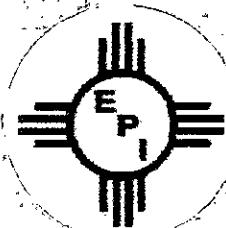
IR-83

SHELL NORTH 2000-10615
GROUND WATER MONITORING

Prepared By:

Environmental Plus, Inc.

2100 Avenue O
P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
FAX: (505)394-2601



SITE MAPS

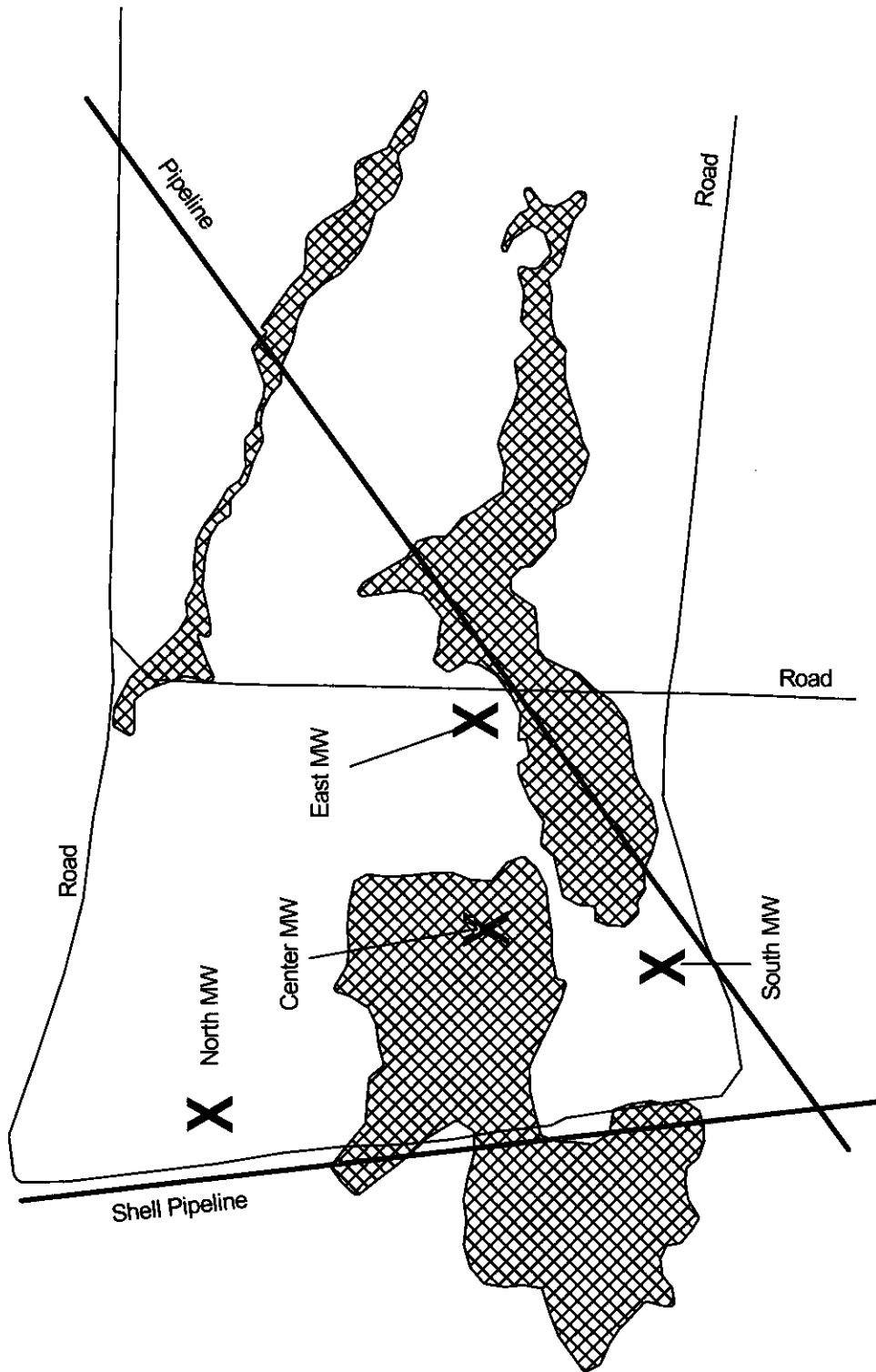
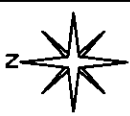
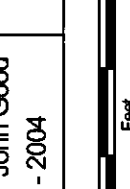


Plate 2 - Sitel GPS Demarcation LINK Energy LLC Clay Osborn Shell North 2000-10615	Lea County, New Mexico UL-J Section 12 T25S R36E N32° 08' 34" W103° 12' 58" Elevation: 3165-ft amsl	DWG BY: John Good March - 2004	REVISED:	
		SCALE: 		

Analytical Results Summary Table

Link Energy LLC - Clay Osborn Shell North 2000-10615 - Ground Water Monitoring														
Sample Date	Sampling Area	Water Depth (ft - b/c ¹)	SAMPLE ID#	VOC ² ppm	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX ⁶ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	Cl ⁻ mg/Kg	TDS mg/Kg
7/3/2001	MW1-Center		ECO71201SNMW1		<0.25	0.080	0.080	<0.001	<0.001	<0.001	<0.001	<0.002	1660	4090
7/12/2001	MW2-East		ECO71201SNMW2		<0.25	1.390	1.390	<0.001	<0.001	<0.001	<0.001	<0.002	2230	5290
7/12/2001	MW3-South		ECO71201SNMW3		<0.25	0.676	0.676	<0.001	<0.001	<0.001	<0.001	<0.002	2410	6180
7/12/2001	MW4-NWWest		ECO71201SNMW4		<0.25	22.600	22.600	<0.001	<0.001	<0.001	<0.001	<0.002	1730	4860
10/24/2001	MW1-Center		ESN102401MW1		<0.5	<0.5	<0.5	0.003	<0.001	0.003	<0.001	<0.002	1680	4320
10/24/2001	MW2-East		ESN102401MW2		<0.5	<0.5	<0.5	0.003	<0.001	0.003	<0.001	<0.002	1600	3940
10/24/2001	MW3-South		ESN102401MW3		<0.5	<0.5	<0.5	0.003	<0.001	0.003	<0.001	<0.002	2310	5930
10/24/2001	MW4-NWWest		ESN102401MW4		<0.5	<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	<0.002	2020	4810
1/23/2002	MW1-Center		WECOSN12302CMW					<0.001	<0.001	<0.001	<0.001	<0.002	1690	4790
1/23/2002	MW2-East		WECOSN12302EMW					<0.001	<0.001	<0.001	<0.001	<0.002	1930	5140
1/23/2002	MW3-South		WECOSN12302SMW					<0.001	<0.001	<0.001	<0.001	<0.002	2120	6170
1/23/2002	MW4-NWWest		WECOSN12302NMW					<0.001	<0.001	<0.001	<0.001	<0.002	1500	3920
4/16/2002	MW1-Center		WECOSN41602CMW1					<0.001	<0.001	<0.001	<0.001	<0.002		
4/16/2002	MW2-East		WECOSN41602EMW2					<0.001	<0.001	<0.001	<0.001	<0.002		
4/16/2002	MW3-South		WECOSN41602SMW3					<0.001	<0.001	<0.001	<0.001	<0.002		
4/16/2002	MW4-NWWest		WECOSN41602WMW4					<0.001	<0.001	<0.001	<0.001	<0.002		
7/8/2002	MW1-Center		WECOSN7802CMW					<0.001	<0.001	<0.001	<0.001	<0.002	1550	4220
7/8/2002	MW2-East		WECOSN7802EMW					<0.001	<0.001	<0.001	<0.001	<0.002	2350	4760
7/8/2002	MW3-South		WECOSN7802SMW					<0.001	<0.001	<0.001	<0.001	<0.002	2240	5320
7/8/2002	MW4-NWWest		WECOSN7802WMW					<0.001	<0.001	<0.001	<0.001	<0.002	1500	2890
10/14/2002	MW1-Center		WECOSN101402CMW1					<0.001	<0.001	<0.001	<0.001	<0.002		
10/14/2002	MW2-East		WECOSN101402EMW					<0.001	<0.001	<0.001	<0.001	<0.002		
10/14/2002	MW3-South		WECOSN101402SMW					<0.001	<0.001	<0.001	<0.001	<0.002		
10/14/2002	MW4-NWWest		WECOSN101402WMW					<0.001	<0.001	<0.001	<0.001	<0.002		
2/19/2003	MW1-Center	47.47	WECOSN21903CMW					<0.001	<0.001	<0.001	<0.001	<0.002		
2/19/2003	MW2-East	49.45	WECOSN21903EMW					<0.001	<0.001	<0.001	<0.001	<0.002		
2/19/2003	MW3-South	50.15	WECOSN21903SMW					<0.001	<0.001	<0.001	<0.001	<0.002		
2/19/2003	MW4-NWWest	47.35	WECOSN21903WMW					<0.001	<0.001	<0.001	<0.001	<0.002		
7/18/2003	MW1-Center	47.34												
7/18/2003	MW2-East	49.48												
7/18/2003	MW3-South	50.17												
7/18/2003	MW4-NWWest	47.50												
9/2/2003	MW1-Center	47.75												
9/2/2003	MW2-East	49.69												
9/2/2003	MW3-South	49.69												
9/2/2003	MW4-NWWest	47.91												
10/6/2003	MW1-Center	47.90	WLESN10603CMW					<0.001	<0.001	<0.001	<0.001	<0.002		
10/6/2003	MW2-East	49.79	WLESN10603EMW					<0.001	<0.001	<0.001	<0.001	<0.002		
10/6/2003	MW3-South	56.00	WLESN10603SMW					<0.001	<0.001	<0.001	<0.001	<0.002		
10/6/2003	MW4-NWWest	56.90	WLESN10603WMW					<0.001	<0.001	<0.001	<0.001	<0.002		
1/28/2004	MW1-Center	47.83	WLECOSN12804CMW					<0.001	<0.001	<0.001	<0.001	<0.002		
1/28/2004	MW2-East	49.75	WLECOSN12804EMW					<0.001	<0.001	<0.001	<0.001	<0.002		
1/28/2004	MW3-South	50.42	WLECOSN12804SMW					<0.001	<0.001	<0.001	<0.001	<0.002		
1/28/2004	MW4-NWWest	47.63	WLECOSN12804WMW					<0.001	<0.001	<0.001	<0.001	<0.002		

¹ b/c = below top of casing (~4-ft)

² VOC = Volatile Organic Constituents; (note: 100 ppm Isobutylene calibration gas = 101 ppm)

³ GRO - Gasoline Range Organics (Detection Limit = 5 mg/Kg)

⁴ DRO - Diesel Range Organics (Detection Limit = 2.5 mg/Kg)

⁵ TPH - Total Petroleum Hydrocarbon (GRO+DRO)

⁶ BTEX = Sum of CoCs (Detection Limits = 0.001 mu/Kg; 0.002 mu/Kg for total Xylenes)

¹ b/c = below top of casing (1-4 ft) ² VOC = Volatile Organic Constituents; (note: 100 ppm isobutylene calibration gas = 101 ppm)³ GRO - Gasoline Range Organics (Detection Limit = 5 mg/Kg)⁴ DRO - Diesel Range Organics (Detection Limit = 2.5 mg/Kg)⁵ TPH - Total Petroleum Hydrocarbon (GRO+DRO) ⁶ BTEX = Sum of CoCs (Detection Limits = 0.001 mg/Kg; 0.002 mg/Kg for total Xylenes)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

July 2, 2004

Mr. Jimmy Bryant
Link Energy
P.O. Box 1660
Midland, TX 79703

Dear Mr. Bryant:

The New Mexico Oil Conservation Division has received the "Annual Monitoring Report Link Energy Clay Osborn 6" Shell North #2000-10615" (OCD ref. 1R-0083). Upon review, we find that we need additional information. Please send, as soon as possible, the following:

1. Information on the soil borings that took place between August 15, 2000 and September 5, 2000. This information should include a map showing the locations of the borings and the sample results obtained, at 5-foot intervals, during the drilling process.
2. A statement that the situation at the site has been explained to the landowner, and that it has been demonstrated to the landowner that the remaining water contaminants, i.e. high chlorides and high TDS, were not the result of a pipeline leak.

If you have any questions, do not hesitate to contact me at (505) 476-3492 or emartin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin, Environmental Bureau

cc: Larry W. Johnson, NMOCD, Hobbs
Jeff Dann, Link Energy, Houston
Iain Olness, EPI



ENVIRONMENTAL PLUS, INC. ~~Audio-Blaze~~ ~~Micro-Blaze Out™~~
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

28 April 2004

Mr. Ed Martin
NM Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division – Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Annual Monitoring Report Link Energy Clay Osborn 6" Shell North #2000-10615
UL-J Section 12 T25S R36E, Lea County, New Mexico
Landowner: Clay and Gerry Osborn

1R-83

Dear Mr. Martin,

Environmental Plus, Inc. (EPI), on behalf of Mr. Frank Hernandez, Link Energy, submits for your consideration this *Annual Monitoring Report* for the above-referenced site. Based on data collected during the past year, Link Energy recommends that the groundwater monitoring well network be sealed and the groundwater investigation at this site be terminated. In addition, Link Energy is recommending that a remediation plan be developed to address the impacted soils identified during site delineation activities.

Should you have any questions or comments please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-2088 or 505-390-7306 respectively. Mr. Hernandez may be contacted through Link's Midland office at 915-638-3799 or 505-631-3095.

All official correspondence should be addressed to:

Mr. Frank Hernandez
Link Energy
P.O. Box 1660
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Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.
Hydrogeologist

cc: Larry W. Johnson, NMOCD – Hobbs District Office
Frank Hernandez, Link Energy – Midland
Jeff Dann, Link Energy – Houston
Sherry Miller, EPI President
Ben Miller, EPI Vice President and General Manager

ENVIRONMENTAL PLUS, INC.



ANNUAL MONITORING REPORT

CLAY OSBORN 6" SHELL NORTH

LINK REF: 2000-10615

**NW¼ OF THE SE¼ OF SECTION 12, TOWNSHIP 25 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO**

**~2.25 MILES NORTHWEST (306°) OF
JAL, LEA COUNTY, NEW MEXICO**

LATITUDE: N32° 08' 34"

LONGITUDE: W103° 12' 58"

APRIL 21, 2004

PREPARED BY:

Environmental Plus, Inc.

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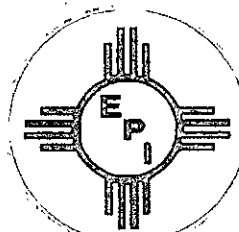


TABLE OF CONTENTS

I.	Background	1
II.	Field Activities	1
III.	Groundwater Elevation and PSH Thickness	2
IV.	PSH Recovery	2
V.	Groundwater Sampling	2
VI.	Groundwater Analytical Results	2
VII.	Recommendations	2

FIGURES

Figure 1	Area Map
Figure 2	Site Location Map
Figure 3	Site Map
Figure 4	TPH and BTEX Concentrations in Groundwater Monitoring Well SMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.
Figure 5	TPH and BTEX Concentrations in Groundwater Monitoring Well EMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.
Figure 6	TPH and BTEX Concentrations in Groundwater Monitoring Well NWMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.
Figure 7	TPH and BTEX Concentrations in Groundwater Monitoring Well CMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.
Figure 8	Hydrograph for the Groundwater Monitoring Well Network, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico, from 07/03/01 through 10/06/03.
Figure 9	Groundwater Contour Map – 02/19/03
Figure 10	Contaminant Concentration Map – 02/19/03
Figure 11	Groundwater Contour Map – 07/18/03
Figure 12	Contaminant Concentration Map – 07/18/03
Figure 13	Groundwater Contour Map – 09/02/03
Figure 14	Contaminant Concentration Map – 09/02/03
Figure 15	Groundwater Contour Map – 10/06/03
Figure 16	Contaminant Concentration Map – 10/06/03

TABLES

Table 1	Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses
Table 2	Summary of Groundwater Analytical Results

APPENDIX

Appendix A	Groundwater Laboratory Analytical Results and Chain-of-Custody Forms
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I. Background

The "Clay Osborn 6-inch Shell North" (2000-10615) release site is located approximately 2.25 miles northwest of Jal in Lea County, New Mexico, at an elevation of approximately 3,165 feet above mean sea level (reference Figures 1 and 2). The site is located in the northwest quarter of the southeast quarter of section 12, range 36 east, township 25 south. There are no residences or surface water bodies within a 1,000-foot radius of the leak site. The releases are historical with no information available regarding the volumes released or recovered. The releases covered approximately 95,100 square feet of pipeline right-of-way and pasture land owned by Clay and Gerry Osborn (reference Figure 3).

Initial investigative activities, completed between August 15 and September 5, 2000, consisted of advancing 47 soil borings to depths ranging from 5 to 55 feet below ground surface (BGS). During the advancement of the soil borings, samples were collected at five foot intervals. The samples were split with a portion being immediately placed in laboratory provided containers and placed on ice in a cooler for later transport to an independent laboratory. The remainder of the sample was placed in zip lock bag for field analysis of organic vapors utilizing an Ultra Rae photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The investigation delineated subsurface contamination present at depths greater than two feet BGS above the New Mexico Oil Conservation Division (NMOCD) remedial thresholds (*Site Investigation and Remediation Proposal* dated December 8, 2001).

Soil boring SB-35 was advanced until groundwater was encountered and completed as a temporary groundwater monitoring well. During the development and sampling of the well, a petroleum sheen was noticed. Analytical results indicated the presence of low levels of hydrocarbons and elevated levels of chloride and total dissolved solids (TDS) present in the groundwater.

Based on this information, a network of permanent groundwater monitoring wells was installed and monitored on a quarterly basis. Analytical results for the samples collected from the groundwater monitoring well network indicated the presence of toluene in three of the monitoring wells (EMW, CMW and SMW) during the October 24, 2001 sampling event. No other hydrocarbon impacts were detected in the samples collected from the groundwater monitoring well network. The groundwater samples were also analyzed for chlorides and TDS. Analytical results for these analytes were consistently above the New Mexico Water Quality Commission (NMWQC) groundwater standards of 250 milligrams per liter (mg/L) and 1,000 mg/L, respectively. However, these cannot be attributed to the historical Link release.

II. Field Activities

The groundwater monitoring well network was sampled on February 19, July 18, September 2 and October 6, 2003. The samples were submitted to an independent laboratory for the quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX). In addition, the groundwater samples collected on September 2, 2003 were submitted for quantification of total petroleum hydrocarbons as gasoline (TPH as gasoline), total petroleum hydrocarbons as diesel (TPH as diesel), chlorides and TDS.

III. Groundwater Elevation and PSH Thickness

The groundwater monitoring well was gauged prior to bailing to determine the depth to groundwater and the thickness of any PSH. Measurements of groundwater levels during this phase of the investigation indicate that water levels have decreased slightly. PSH have not been detected in the groundwater monitoring well network since it was installed. A summary of groundwater elevations is included in Table 1.

IV. PSH Recovery

PSH have not been detected in the groundwater monitoring wells since they were installed.

V. Groundwater Sampling

The groundwater monitoring well network was sampled on February 19, July 18, September 2 and October 6, 2003. The samples were submitted to an independent laboratory for the quantification BTEX via EPA Method 8260b. In addition, the groundwater samples collected on September 2, 2003 were submitted for quantification of TPH as gasoline and TPH as diesel via EPA Method 8015 modified, chlorides via EPA Method 325.2 & 9251 and TDS via EPA Method 160.1. The wells were purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analyses.

VI. Groundwater Analytical Results

Analytical results for the samples collected on February 19, July 18, September 2 and October 6, 2003, were below the laboratory method detection limits (MDL) for BTEX and TPH.

A summary of groundwater analytical results is included as Table 2 and copies of the analytical results for samples collected on February 19, July 18, September 2 and October 6, 2003, are included as Appendix A.

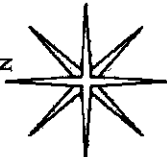
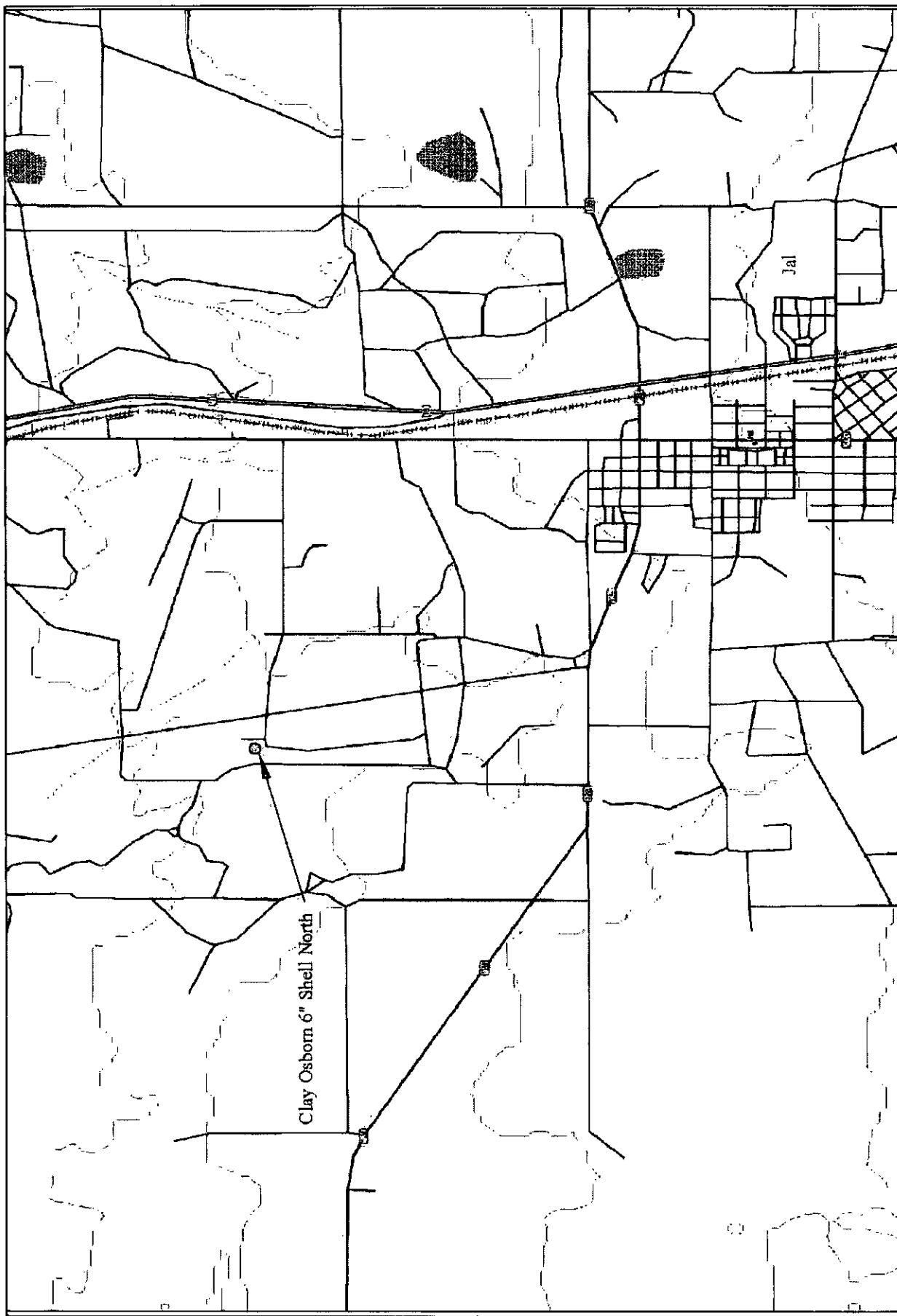
VII. Recommendations

Based on field monitoring and analytical results collected during the past year and analyzed in conjunction with data collected during the initial investigation, the following recommendations are made:

- 1) Due to the fact that no hydrocarbon contaminants have been detected in the on-site groundwater monitoring well network since October 2001, it is recommended that the groundwater monitoring well network be sealed and the groundwater investigation at this site be terminated. Link Energy requests that the NMOCD issue a "*No Further Action*" letter regarding the groundwater conditions at the site based on the groundwater monitoring results.

- 2) It is recommended that a remedial action plan be developed to address the impacted soils identified during site delineation activities.

FIGURES



REVISED:

DWG By: Iain Olness

April 2004

4,570

2,285

0



Feet

SHEET

1 of 1

Lea County, New Mexico
 NW 1/4 of the SE 1/4, Sec. 12, T25S, R36E
 N 32° 08' 34.0" W 103° 12' 58.0"
 Elevation: 3,165 feet amsl

Figure 1
 Area Map
 Link Energy, LLC
 Clay Osborn 6" Shell North

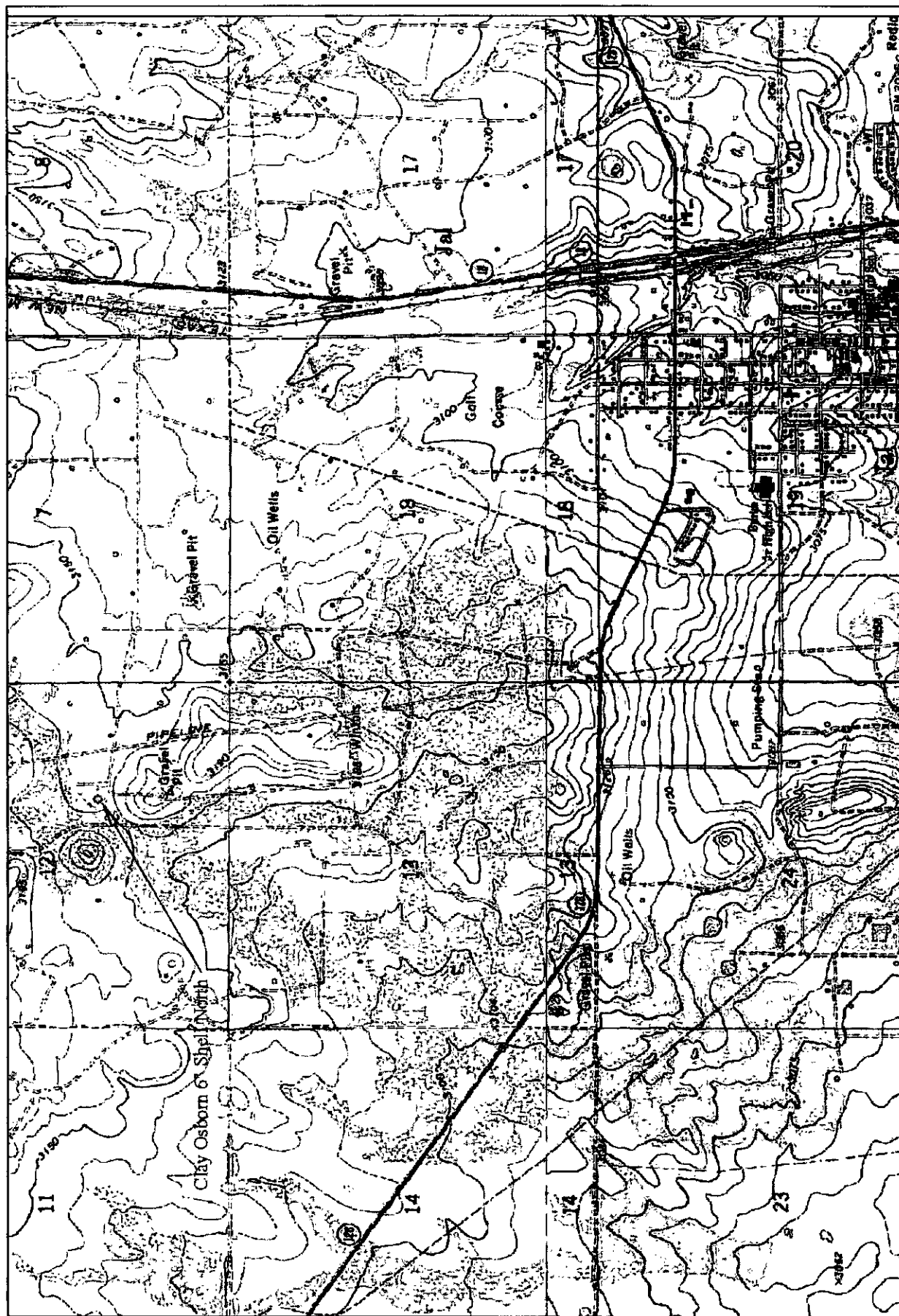
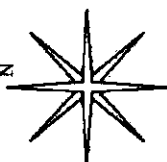
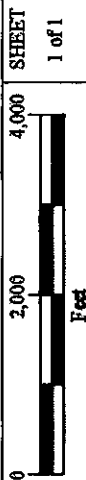


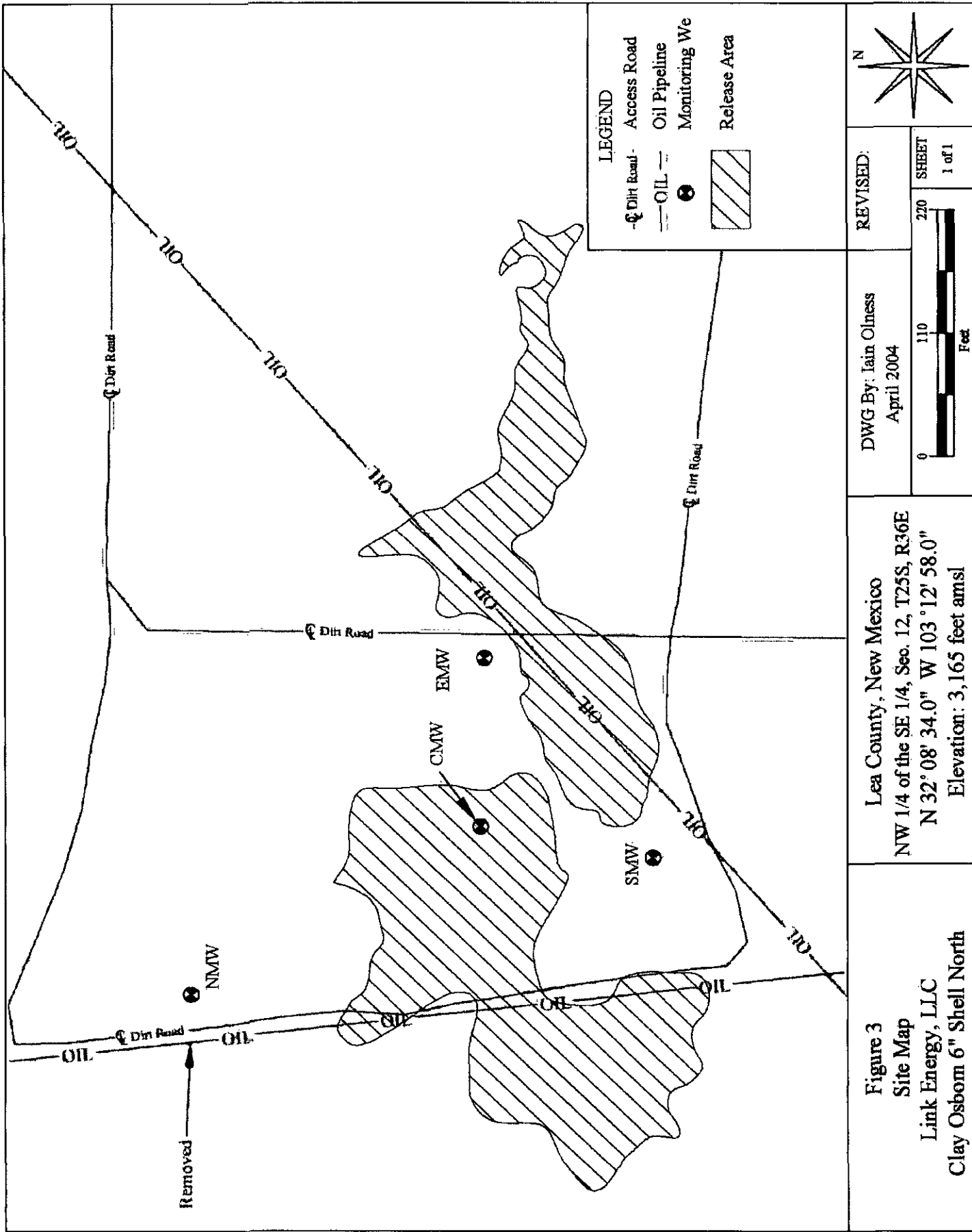
Figure 2
 Site Location Map
 Link Energy, LLC
 Clay Osborn 6" Shell North

Lea County, New Mexico
 NW 1/4 of the SE 1/4, Sec. 12, T25S, R36E
 N 32° 08' 34.0" W 103° 12' 58.0"
 Elevation: 3,165 feet amsl

DWG By: Iain Olness
 April 2004

REVISED:





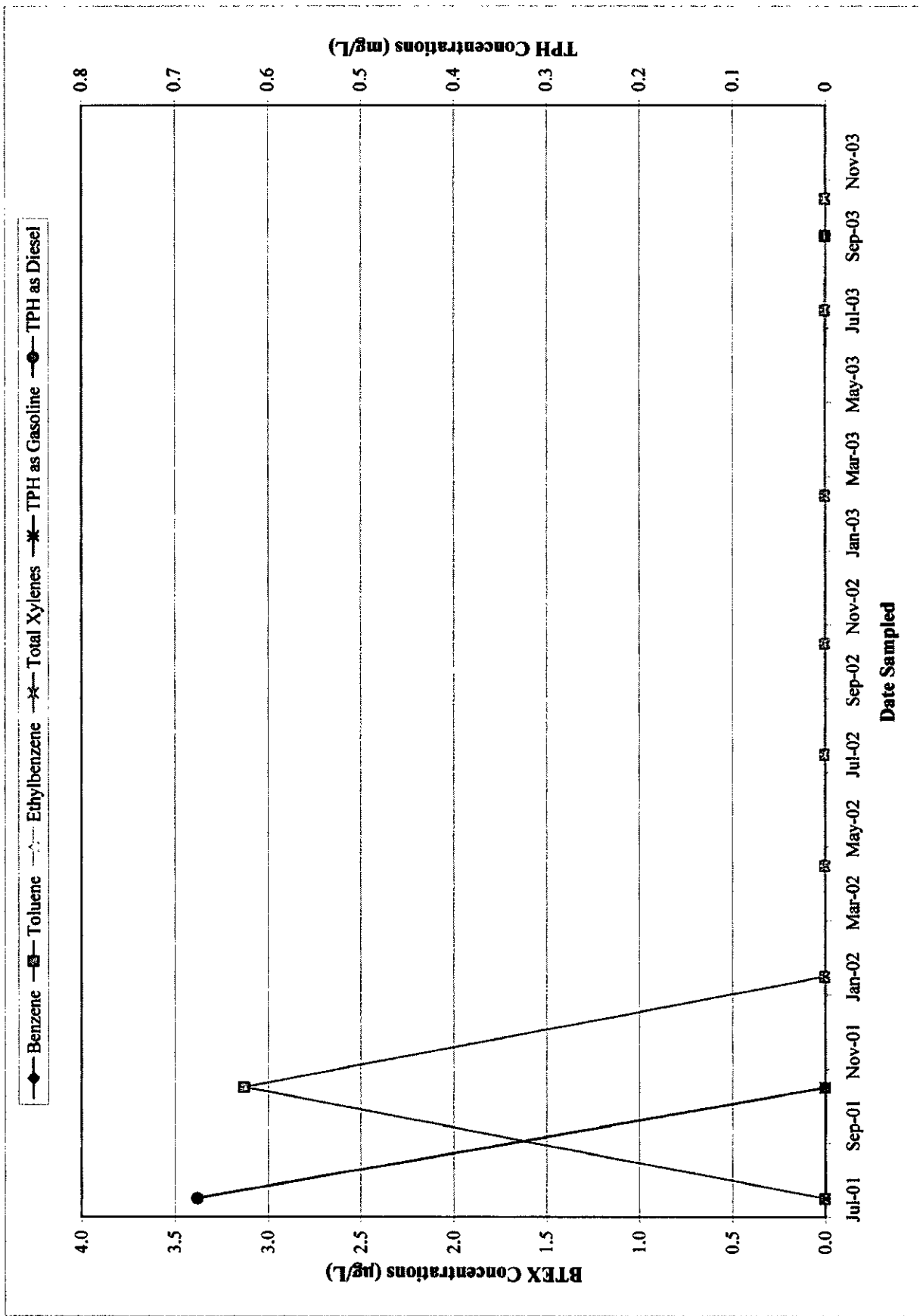


Figure 4: TPH and BTEX Concentrations in Groundwater Monitoring Well SMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.

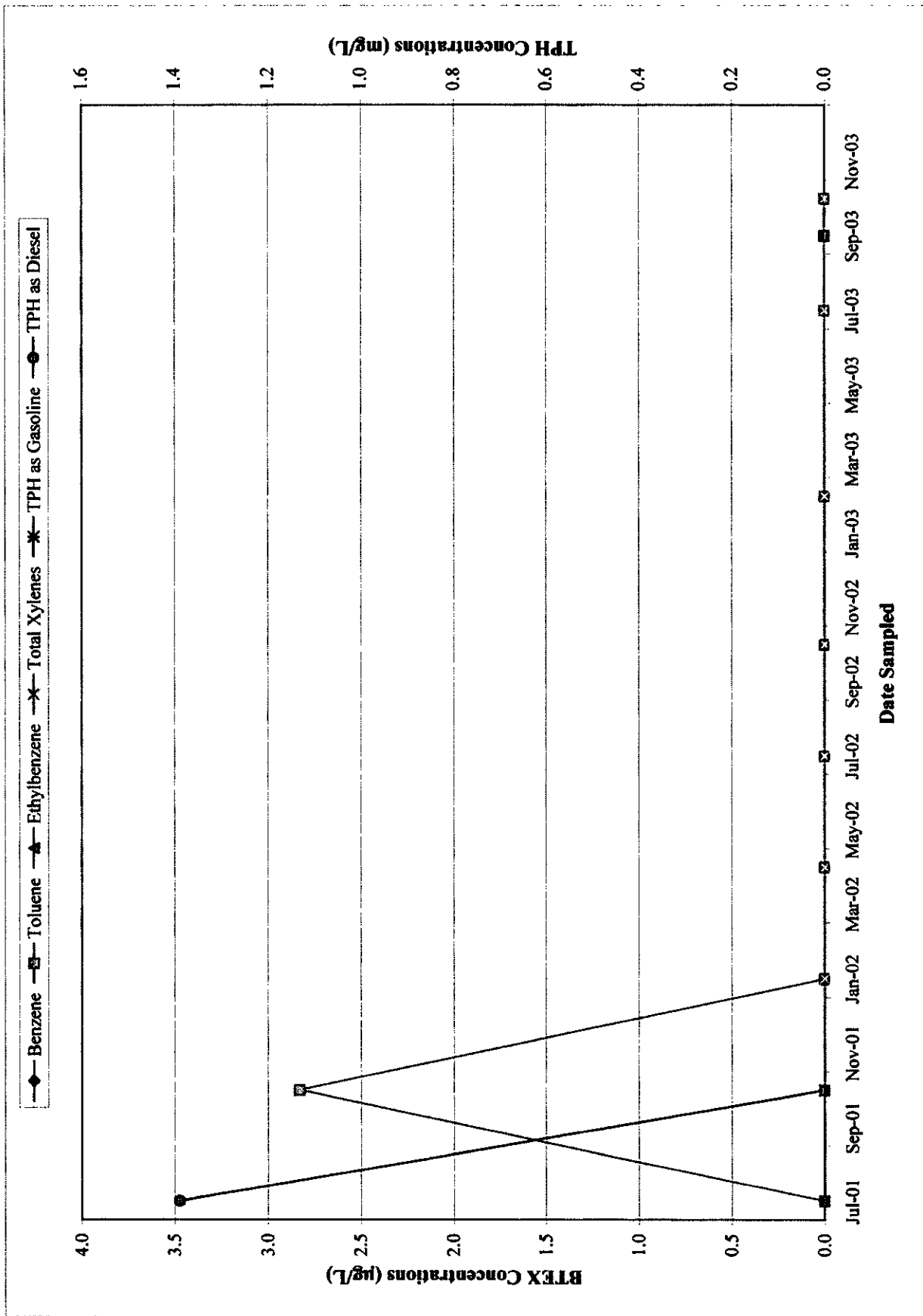


Figure 5: TPH and BTEX Concentrations in Groundwater Monitoring Well EMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.

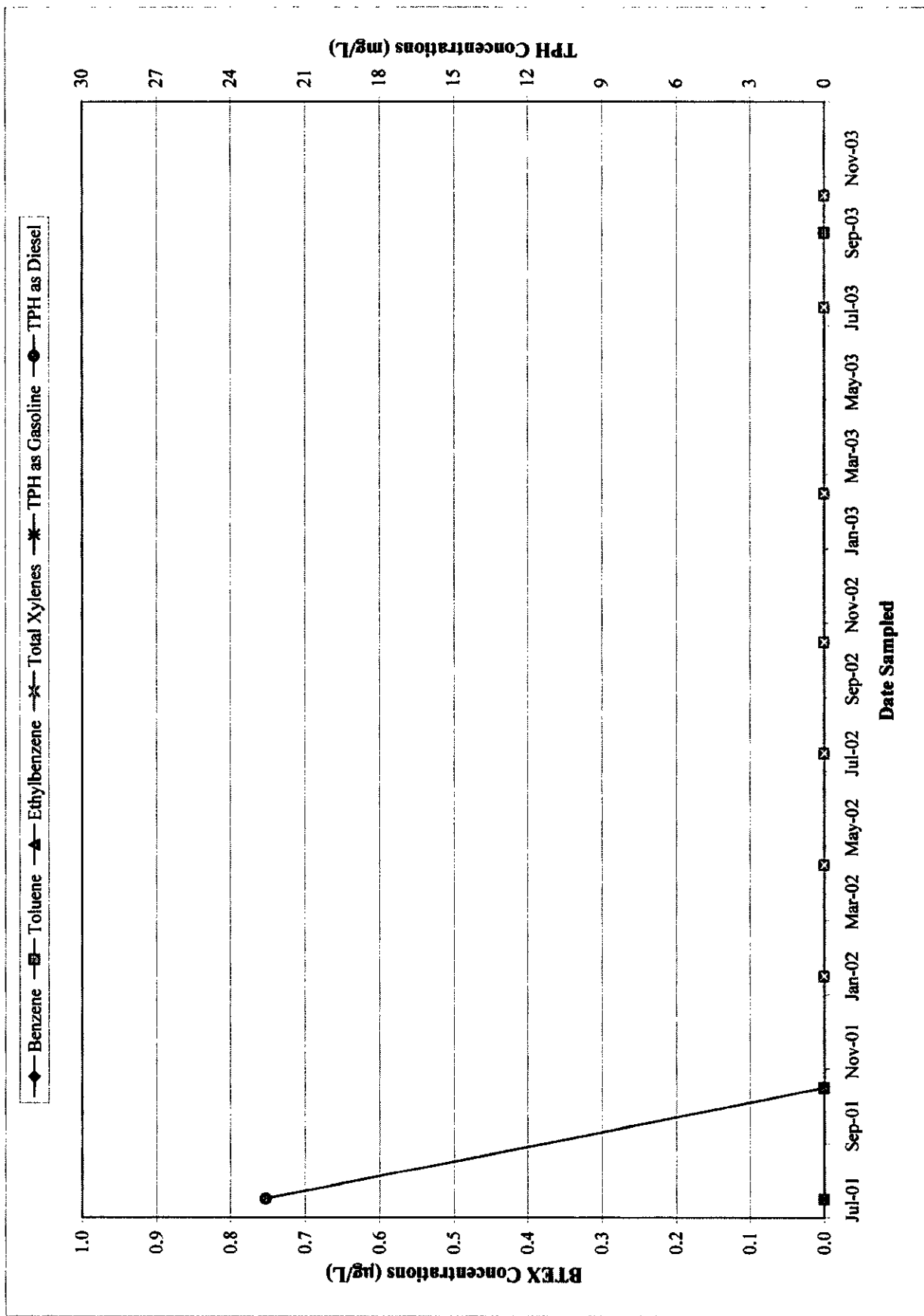


Figure 6: TPH and BTEX Concentrations in Groundwater Monitoring Well NWMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.

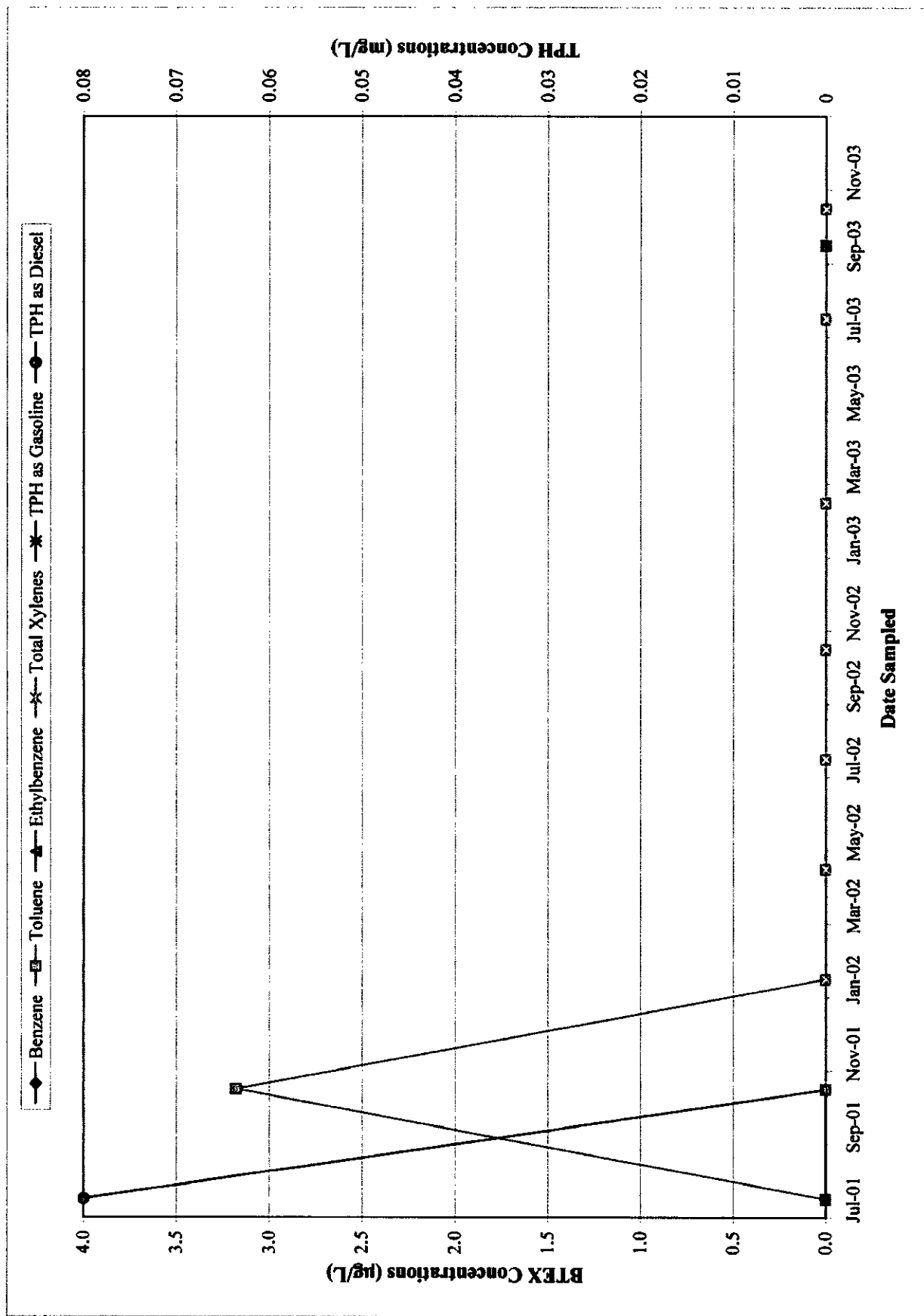


Figure 7: TPH and BTEX Concentrations in Groundwater Monitoring Well CMW from 07/03/01 through 10/06/03, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico.

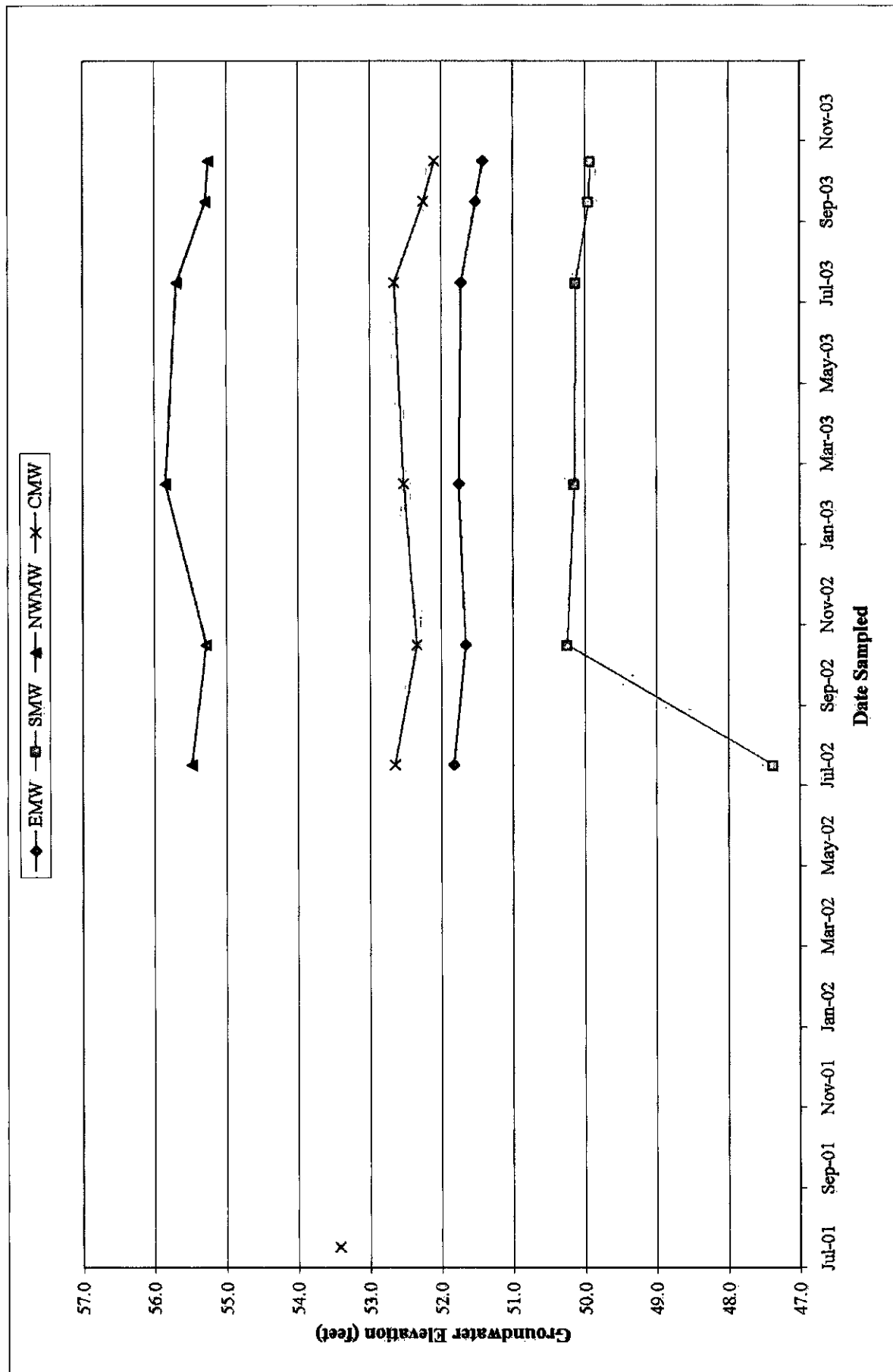


Figure 8: Hydrograph for the Groundwater Monitoring Well Network, Link Energy Clay Osborn 6" Shell North, Lea County, New Mexico from 07/03/01 through 10/06/03.

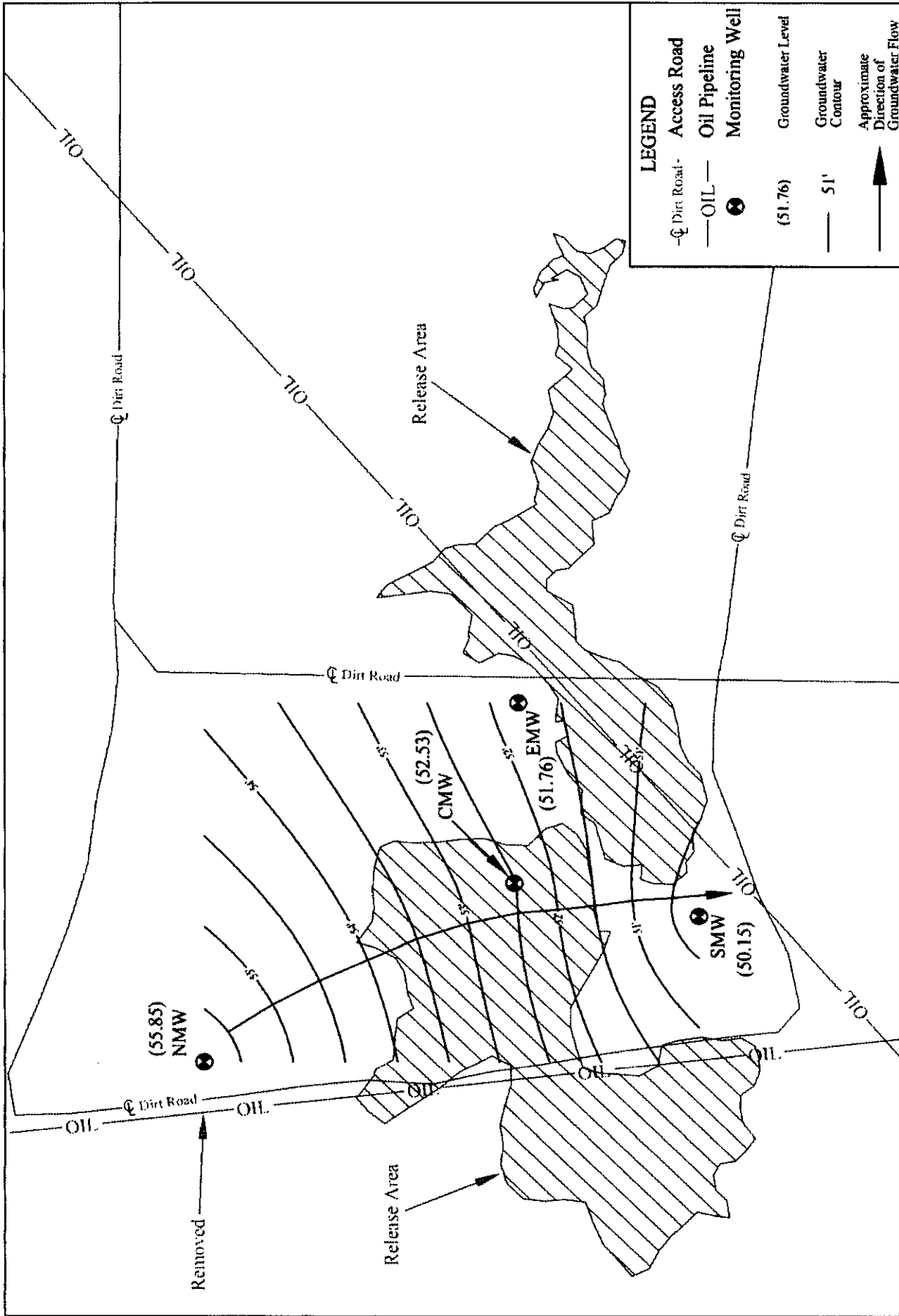
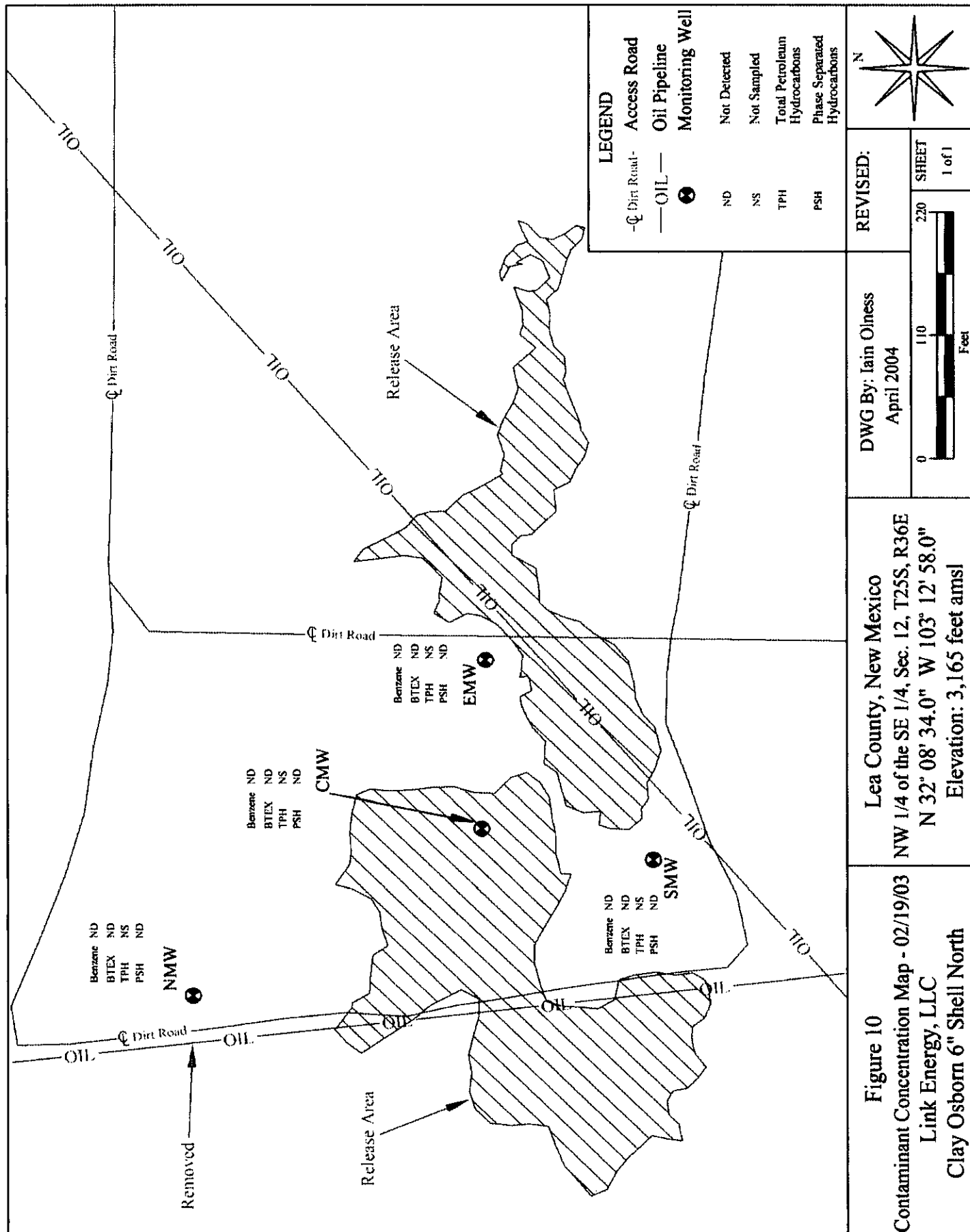
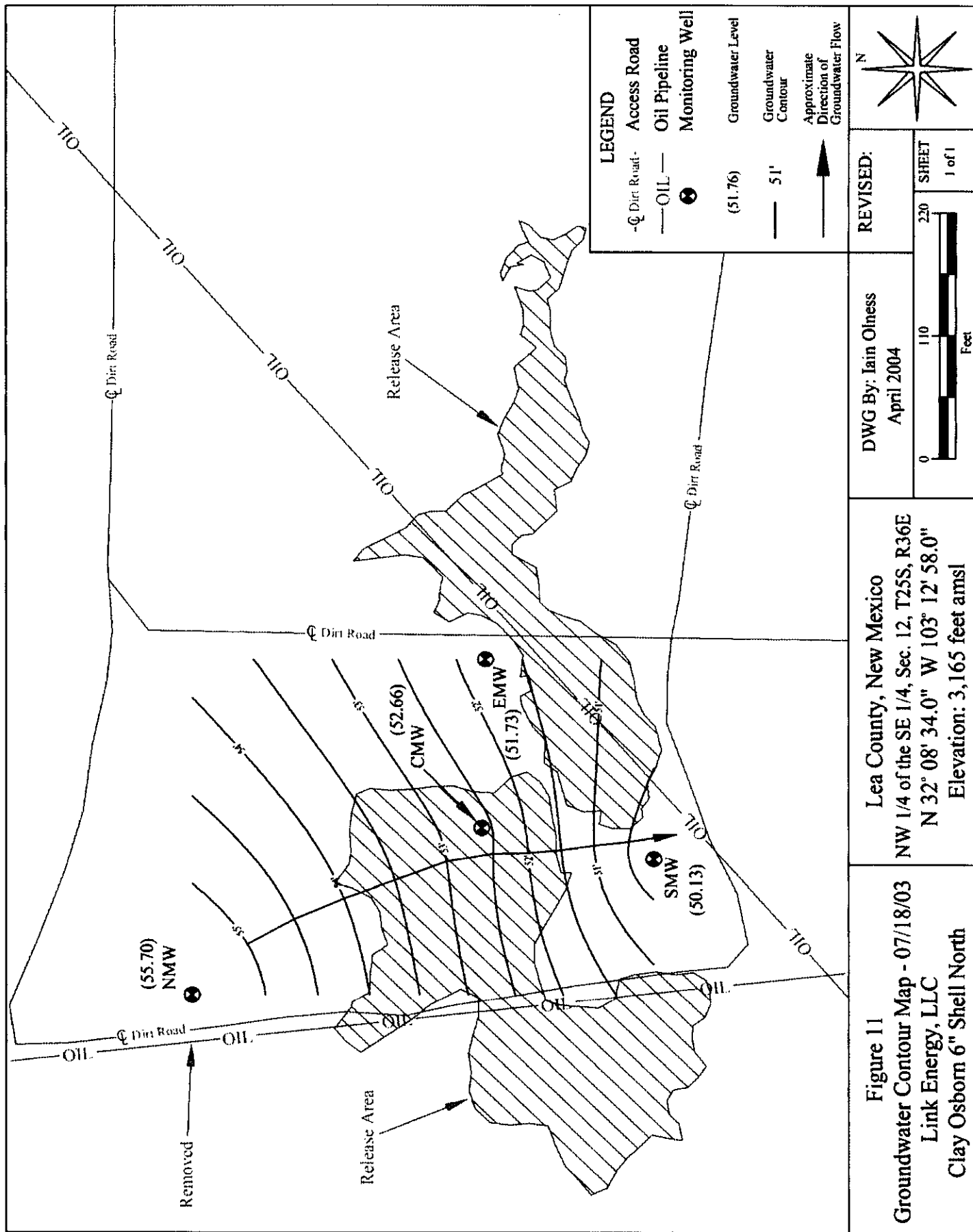
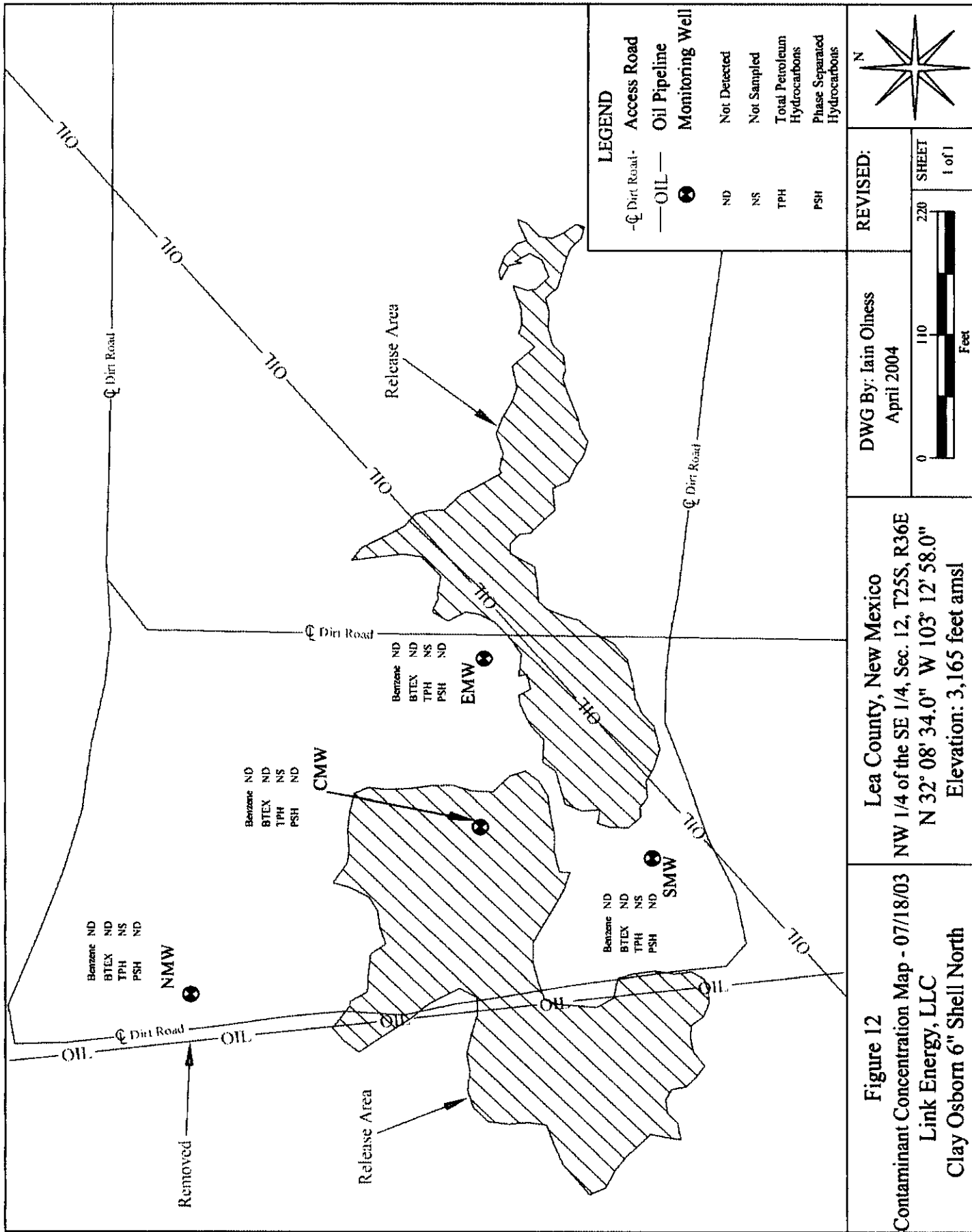
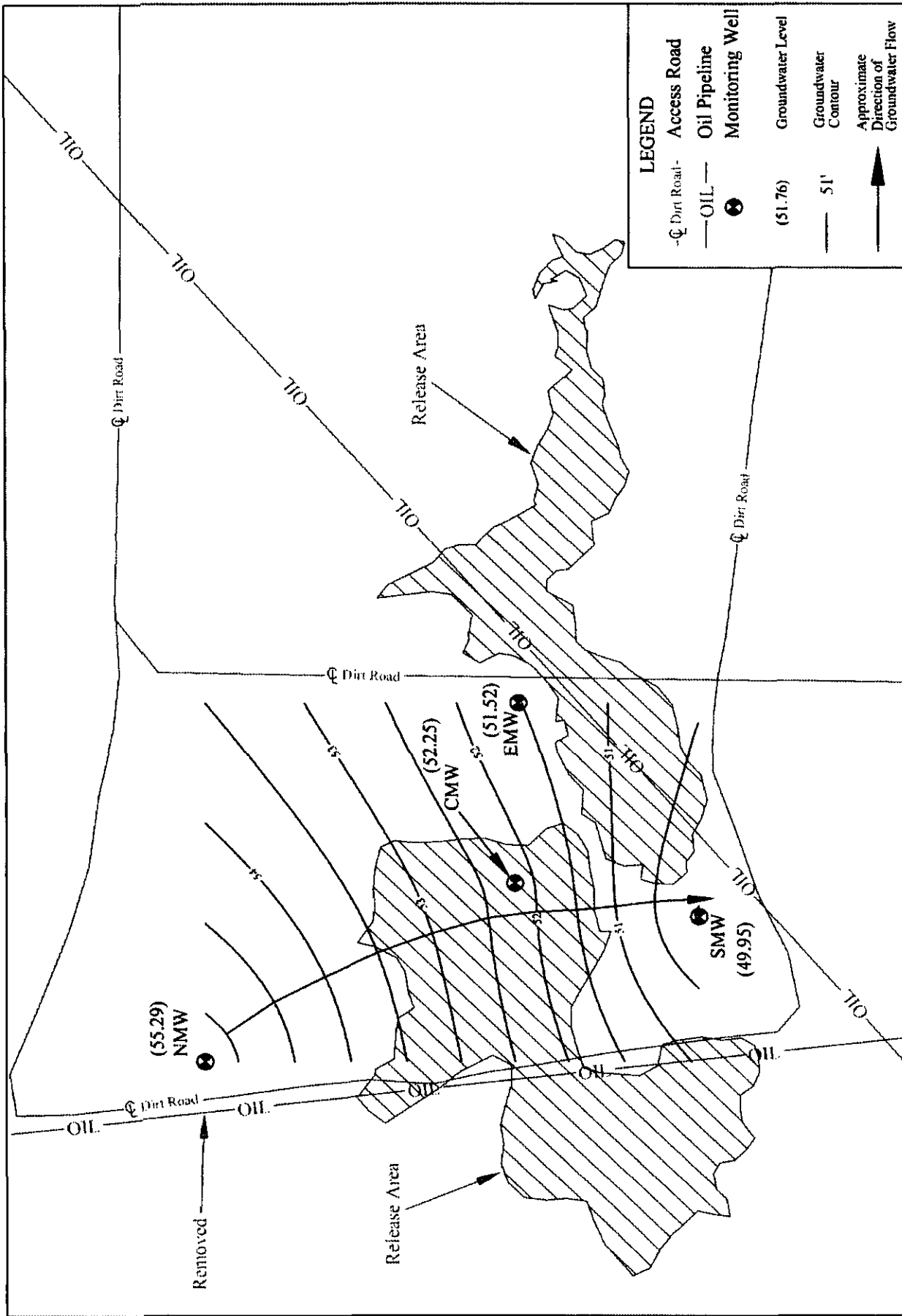


Figure 9 Groundwater Contour Map - 02/19/03 Link Energy, LLC Clay Osborn 6" Shell North	Lea County, New Mexico NW 1/4 of the SE 1/4, Sec. 12, T25S, R36E N 32° 08' 34.0" W 103° 12' 58.0" Elevation: 3,165 feet amsl	DWG By: Iain Olness April 2004	REVISIONS: 220 SHEET 1 of 1
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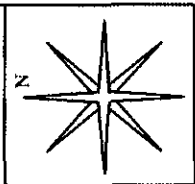






LEGEND

- Dirt Road -
- OIL- Oil Pipeline
- ⊗ Monitoring Well
- (51.76) Groundwater Level
- 51' Groundwater Contour
- Approximate Direction of Groundwater Flow



REVISED:

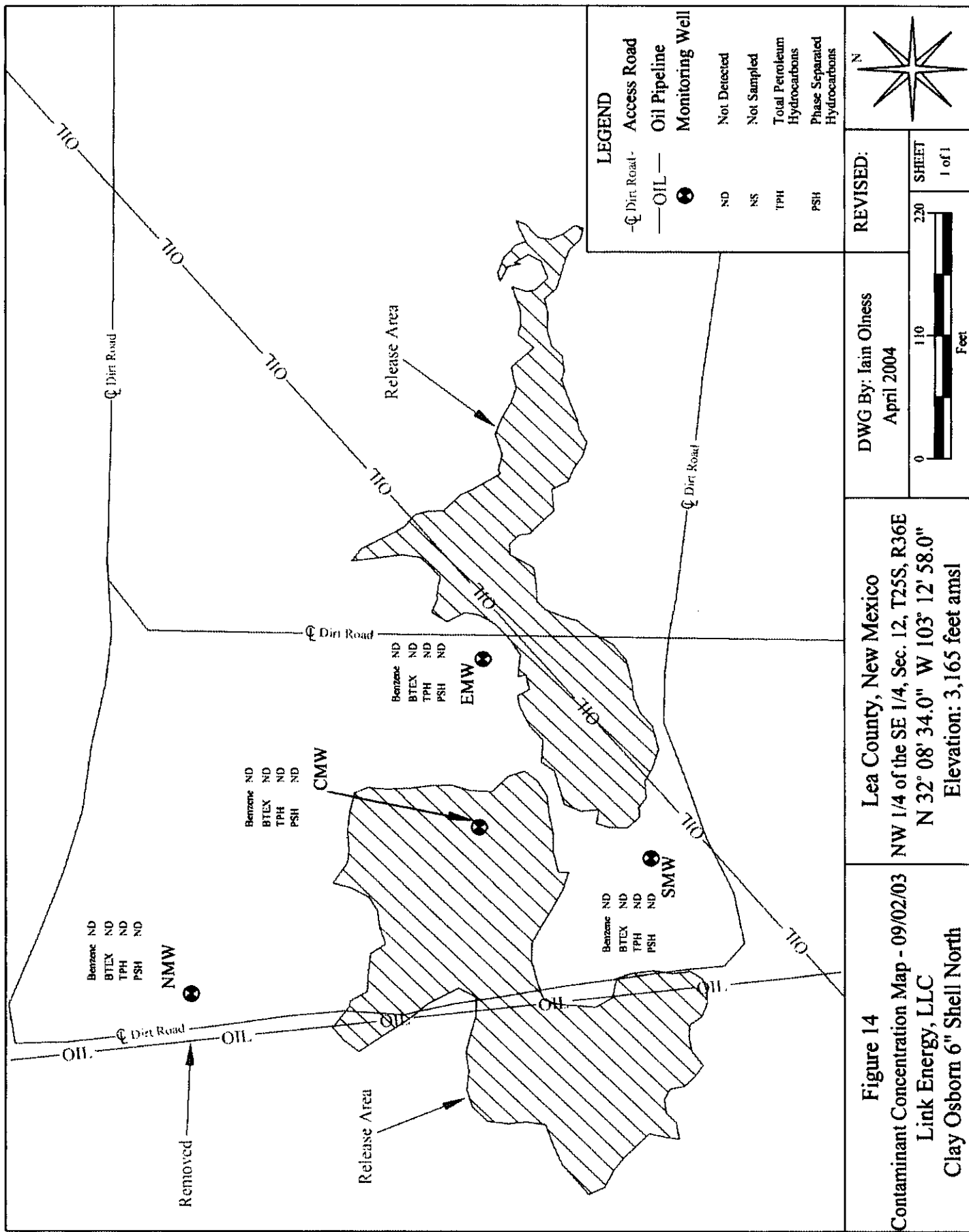
DWG By: Iain Olness
April 2004

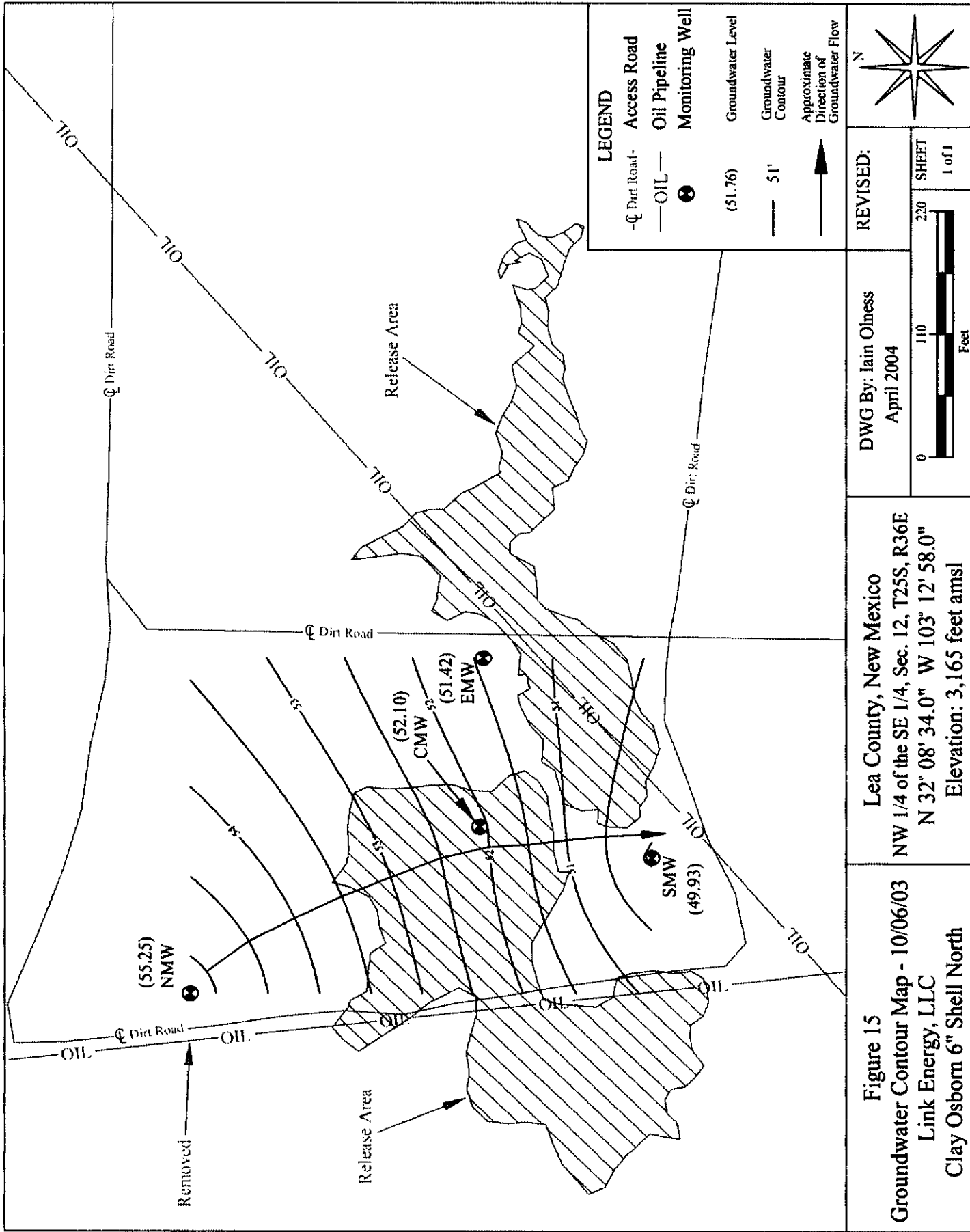
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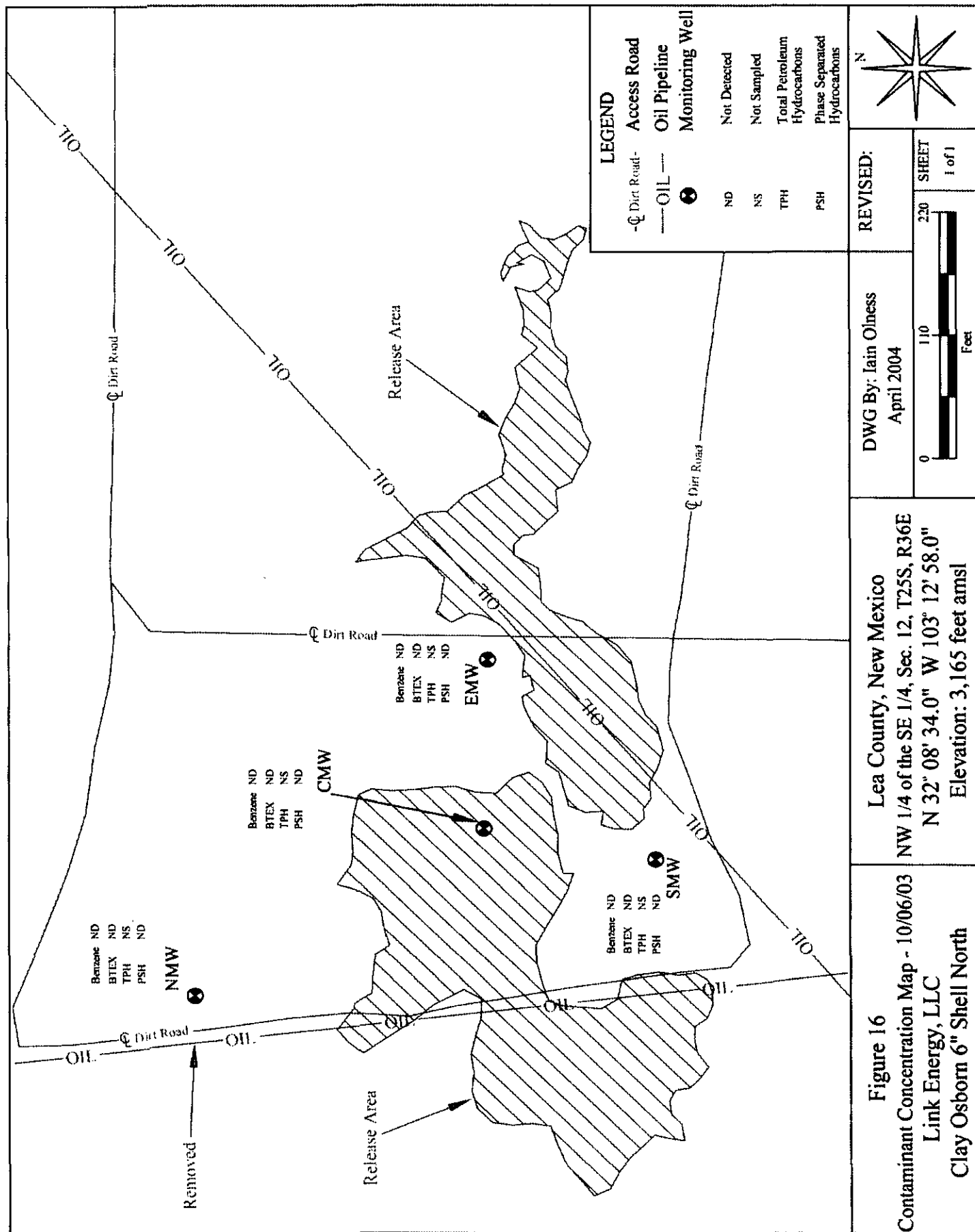
SHEET 1 of 1

Lea County, New Mexico
NW 1/4 of the SE 1/4, Sec. 12, T25S, R36E
N 32° 08' 34.0" W 103° 12' 58.0"
Elevation: 3,165 feet amsl

Figure 13
Groundwater Contour Map - 09/02/03
Link Energy, LLC
Clay Osborn 6" Shell North







TABLES

TABLE 1

**RELATIVE GROUNDWATER ELEVATIONS AND
PHASE SEPARATED HYDROCARBON THICKNESSES**

Clay Osborn 6" Shell North - Ref #2000-10757

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)*	Phase Separated Hydrocarbon Thickness (feet)
CMW	3-Jul-01	100.00	--	46.58	53.42	--
	24-Oct-01					
	23-Jan-02					
	16-Apr-02					
	8-Jul-02		--	47.35	52.65	--
	14-Oct-02		--	47.65	52.35	--
	19-Feb-03		--	47.47	52.53	--
	18-Jul-03		--	47.34	52.66	--
	2-Sep-03		--	47.75	52.25	--
	6-Oct-03		--	47.90	52.10	--
EMW	3-Jul-01	101.21				
	24-Oct-01					
	23-Jan-02					
	16-Apr-02					
	8-Jul-02		--	49.38	51.83	--
	14-Oct-02		--	49.55	51.66	--
	19-Feb-03		--	49.45	51.76	--
	18-Jul-03		--	49.48	51.73	--
	2-Sep-03		--	49.69	51.52	--
	6-Oct-03		--	49.79	51.42	--
SMW	3-Jul-01	100.30				
	24-Oct-01					
	23-Jan-02					
	16-Apr-02					
	8-Jul-02		--	52.92	47.38	--
	14-Oct-02		--	50.05	50.25	--
	19-Feb-03		--	50.15	50.15	--
	18-Jul-03		--	50.17	50.13	--
	2-Sep-03		--	50.35	49.95	--
	6-Oct-03		--	50.37	49.93	--
NWMW	3-Jul-01	103.20				
	24-Oct-01					
	23-Jan-02					
	16-Apr-02					
	8-Jul-02		--	47.71	55.49	--
	14-Oct-02		--	47.92	55.28	--
	19-Feb-03		--	47.35	55.85	--
	18-Jul-03		--	47.50	55.70	--
	2-Sep-03		--	47.91	55.29	--
	6-Oct-03		--	47.95	55.25	--

* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)).

-- = Not Detected

If the cell is blank, the well was not gauged.

TABLE 2

Summary of Groundwater Analytical Results

Clay Osborn 6" Shell North - Ref #2000-10615

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Gasoline (mg/L)	TPH as Diesel (mg/L)	Total TPH (mg/L)
Temporary Monitoring Well	1-Sep-00	<1	2	<1	2	1	3	1,968	4,491	<0.5	<0.5	<1.0
SMW	12-Jul-01	<1	<1	<1	<1	<1	<2	2,410	6,180	<0.25	0.676	0.676
	24-Oct-01	<1	3.13	<1	<1	<1	<2	2,310	5,930	<0.5	<0.5	<1.0
	23-Jan-02	<1	<1	<1	<1	<1	<2	2,120	6,170			
	16-Apr-02	<1	<1	<1	<1	<1	<2					
	8-Jul-02	<1	<1	<1	<1	<1	<2	2,240	5,320			
	14-Oct-02	<1	<1	<1	<1	<1	<2					
	19-Feb-03	<1	<1	<1	<1	<1	<2					
	18-Jul-03	<1	<1	<1	<1	<1	<2					
	2-Sep-03	<1	<1	<1	<1	<1	<2	2,160	4,870	<0.5	<0.5	<1.0
	6-Oct-03	<1	<1	<1	<1	<1	<2					
EMW	12-Jul-01	<1	<1	<1	<1	<1	<2	2,230	5,290	<0.25	1.390	1.390
	24-Oct-01	<1	2.83	<1	<1	<1	<2	1,600	3,940	<0.5	<0.5	<1.0
	23-Jan-02	<1	<1	<1	<1	<1	<2	1,930	5,140			
	16-Apr-02	<1	<1	<1	<1	<1	<2					
	8-Jul-02	<1	<1	<1	<1	<1	<2	2,350	4,760			
	14-Oct-02	<1	<1	<1	<1	<1	<2					
	19-Feb-03	<1	<1	<1	<1	<1	<2					
	18-Jul-03	<1	<1	<1	<1	<1	<2					
	2-Sep-03	<1	<1	<1	<1	<1	<2	2,490	5,570	<0.5	<0.5	<1.0
	6-Oct-03	<1	<1	<1	<1	<1	<2					
NWMW	12-Jul-01	<1	<1	<1	<1	<1	<2	1,730	4,860	<0.25	22.6	22.6
	24-Oct-01	<1	<1	<1	<1	<1	<2	2,020	4,810	<0.5	<0.5	<1.0
	23-Jan-02	<1	<1	<1	<1	<1	<2	1,500	3,920			
	16-Apr-02	<1	<1	<1	<1	<1	<2					
	8-Jul-02	<1	<1	<1	<1	<1	<2	1,500	2,890			
	14-Oct-02	<1	<1	<1	<1	<1	<2					
	19-Feb-03	<1	<1	<1	<1	<1	<2					
	18-Jul-03	<1	<1	<1	<1	<1	<2					
	2-Sep-03	<1	<1	<1	<1	<1	<2	726	1,900	<0.5	<0.5	<1.0
	6-Oct-03	<1	<1	<1	<1	<1	<2					
CMW	3-Jul-01	<1	<1	<1	<1	<1	<2	1,660	4,090	<0.25	0.08	0.08
	24-Oct-01	<1	3.18	<1	<1	<1	<2	1,680	4,320	<0.5	<0.5	<1.0
	23-Jan-02	<1	<1	<1	<1	<1	<2	1,690	4,790			

TABLE 2

Summary of Groundwater Analytical Results

Clay Osborn 6" Shell North - Ref #2000-10615

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	m,p- Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Gasoline (mg/L)	TPH as Diesel (mg/L)	Total TPH (mg/L)
CMW (cont.)	16-Apr-02	<1	<1	<1	<1	<1	<2					
	8-Jul-02	<1	<1	<1	<1	<1	<2	1,550	4,220			
	14-Oct-02	<1	<1	<1	<1	<1	<2					
	19-Feb-03	<1	<1	<1	<1	<1	<2					
	18-Jul-03	<1	<1	<1	<1	<1	<2					
	2-Sep-03	<1	<1	<1	<1	<1	<2	1,610	3,920	<0.5	<05	<1.0
	6-Oct-03	<1	<1	<1	<1	<1	<2					
NMOC Remedial Thresholds		10	750	750			620	250	1,000			

*Bolded values are in excess of the NMOC Remediation Thresholds or Other Standards for Domestic Water Supply.**If cell is blank, that parameter was not analyzed*

APPENDICES

APPENDIX A

GROUNDWATER ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 139818 Report Date: 03/03/03

Project ID: 2000-10615

Sample Name: WECOSN21903SMW

Sample Matrix: water

Date Received: 02/26/2003 Time: 14:15

Date Sampled: 02/19/2003 Time: 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	--		--		02/28/03	8260b	--	--	--	--	--
Benzene	<1	µg/L	1	<1	02/28/03	8260b	--	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	--	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	J	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	--	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	--	1	93.6	84.3	85.5

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN21903SMW

Report#/Lab ID#: 139818

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	105	80-120	---
Toluene-d8	8260b	92.6	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 139818 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2000-10615
Sample Name: WECOSN21903SMW

Attn: Pat McCasland

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

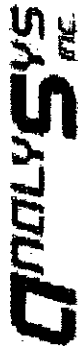
J flag Discussion

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

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NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 139819 Report Date: 03/03/03

Project ID: 2000-10615

Sample Name: WECOSN21903EMW

Sample Matrix: water

Date Received: 02/26/2003 Time: 14:15

Date Sampled: 02/19/2003 Time: 10:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN21903EMW

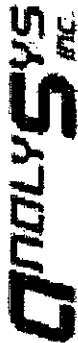
Report#/Lab ID#: 139819

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	112	80-120	---
Toluene-d8	8260b	108	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

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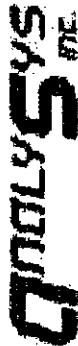
Respectfully Submitted,

Richard Laster

Richard Laster

QUALITY ASSURANCE DATA¹

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN21903WMW

Report#/Lab ID#: 139820

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.5	80-120	---
Toluene-d8	8260b	109	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

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NM 88231

Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 139821 **Report Date:** 03/03/03

Project ID: 2000-10615

Sample Name: WECOSN21903CMW

Sample Matrix: water

Date Received: 02/26/2003 **Time:** 14:15

Date Sampled: 02/19/2003 **Time:** 13:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/28/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/28/03	8260b	---	2	71.1	87.5	70
Ethylbenzene	<1	µg/L	1	<1	02/28/03	8260b	---	2.8	98.6	101.9	107.5
m,p-Xylenes	<1	µg/L	1	<1	02/28/03	8260b	---	2.1	101.1	102.6	111.1
o-Xylene	<1	µg/L	1	<1	02/28/03	8260b	---	1.2	108.5	101.7	109
Toluene	<1	µg/L	1	<1	02/28/03	8260b	---	1	93.6	84.3	85.5

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN21903OMW

Report#/Lab ID#: 139821

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	110	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

CHAIN-OF-CUSTODY

Reports To:

Company Name Environmental Plus

ress 2100 Ave O

State N.M. Zip 88231

N: Fe^{2+} constant

ne 505-394-3481 Fax 505-394-2601

h Status (must be confirmed with lab mgr.):

Project Name/PO#: 2020-10615 Sampler: Ends 32

Bill to (if different):

Company Name East Express

Address 5805 Hwy 90

City Urbana State TX Zip 79201

ATTN: Frank Hernandez

Phone _____ Fax _____



1000

5365
S. S. H. 7040

4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Analyses Requested (1)

Please attach explanatory information as required.

[illegible]

ess specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

$$T = 4.80^\circ\text{C}$$

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
<i>Frank [Signature]</i>	<i>Exxonmobil, LLC</i>			<i>Melanie Hengeman</i>	<i>ASI</i>	<i>2/26/03</i>	<i>14:15</i>

dering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

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NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 145460 Report Date: 08/01/03

Project ID: 2000-10615

Sample Name: WECOSN71803SMW

Sample Matrix: water

Date Received: 07/25/2003 Time: 10:45

Date Sampled: 07/18/2003 Time: 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		07/31/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/03	8260b	---	1	87.9	96.7	93.6
Ethylbenzene	<1	µg/L	1	<1	07/31/03	8260b	---	5.5	107.1	107.6	109
m,p-Xylenes	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	107.4	106.3	109.8
o-Xylene	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	109.4	106.8	110.1
Toluene	<1	µg/L	1	<1	07/31/03	8260b	---	0.9	90.3	100.3	97.3

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615
Sample Name: WECOSN71803SMW

Report#/Lab ID#: 145460
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	80-120	---
Toluene-d8	8260b	104	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

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Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 145461 **Report Date:** 08/01/03

Project ID: 2000-10615

Sample Name: WECOSN71803WMW

Sample Matrix: water

Date Received: 07/25/2003 **Time:** 10:45

Date Sampled: 07/18/2003 **Time:** 11:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		07/31/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/03	8260b	---	1	87.9	96.7	93.6
Ethylbenzene	<1	µg/L	1	<1	07/31/03	8260b	---	5.5	107.1	107.6	109
m,p-Xylenes	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	107.4	106.3	109.8
o-Xylene	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	109.4	106.8	110.1
Toluene	<1	µg/L	1	<1	07/31/03	8260b	---	0.9	90.3	100.3	97.3

QUALITY ASSURANCE DATA¹

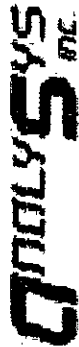
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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN71803WMW

Report#/Lab ID#: 145461

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.6	80-120	--
Toluene-d8	8260b	103	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

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NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 145462 Report Date: 08/01/03

Project ID: 2000-10615

Sample Name: WECOSN71803CMW

Sample Matrix: water

Date Received: 07/25/2003 Time: 10:45

Date Sampled: 07/18/2003 Time: 12:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		07/31/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/03	8260b	---	1	87.9	96.7	93.6
Ethylbenzene	<1	µg/L	1	<1	07/31/03	8260b	---	5.5	107.1	107.6	109
m,p-Xylenes	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	107.4	106.3	109.8
o-Xylene	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	109.4	106.8	110.1
Toluene	<1	µg/L	1	<1	07/31/03	8260b	---	0.9	90.3	100.3	97.3

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Richard Laster

Richard Laster

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(512) 385-5886 - FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN71803CMW

Report#/Lab ID#: 145462
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.2	80-120	--
Toluene-d8	8260b	110	88-110	--

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 145463 Report Date: 08/01/03

Project ID: 2000-10615

Sample Name: WECOSN71803EMW

Sample Matrix: water

Date Received: 07/25/2003 Time: 10:45

Date Sampled: 07/18/2003 Time: 14:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---				07/31/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/31/03	8260b	---	1	87.9	96.7	93.6
Ethylbenzene	<1	µg/L	1	<1	07/31/03	8260b	---	5.5	107.1	107.6	109
m,p-Xylenes	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	107.4	106.3	109.8
o-Xylene	<1	µg/L	1	<1	07/31/03	8260b	---	3.5	109.4	106.8	110.1
Toluene	<1	µg/L	1	<1	07/31/03	8260b	---	0.9	90.3	100.3	97.3

QUALITY ASSURANCE DATA¹

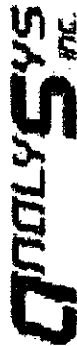
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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN71803EMW

Report#/Lab ID#: 145463

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	80.9	80-120	---
Toluene-d8	8260b	101	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits

Send Report To: Company Name Environmental Plus
Address 2400 Ave O
City Emeryville State CA Zip 94608
ATTN: Pat McFarland
Phone 510-394-3438 Fax 510-394-2601

711.

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2000-10615 Sampler: Food and Biotech

Analyses Requested (f)

Please attach explanatory information as required.

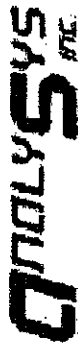
[illegible]

AST's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

11-3-80

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Emily J. [Signature]	Environmental Health	7-18-03		E. J. [Signature]	ASZ	7-25-03	10:45

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/supplier to AnalySys, Inc.'s standard terms.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Euirice NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 146885 Report Date: 09/10/03

Project ID: 2000-10615

Sample Name: WECOSN9203SMW

Sample Matrix: water

Date Received: 09/04/2003 Time: 10:30

Date Sampled: 09/02/2003 Time: 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Total dissolved solids	4870	mg/L	1	<1	09/08/03	160.1	--	1.17	--	--	--
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	--	4.1	98.7	122.9	98.7
TPH by GC (as diesel-ext)	--	--	--	--	09/09/03	3510	--	--	--	--	--
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	--	5.2	97.5	121.1	100.1
Chloride	2160	mg/L	25	<25	09/08/03	325.2&9251	--	2.44	81.96	107.27	97.39
Volatile organics-8260b/BTEX	--	--	--	--	09/09/03	8260b	--	--	--	--	--
Benzene	<1	µg/L	1	<1	09/09/03	8260b	--	3.8	89.6	100.3	91.2
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	--	3.4	113.4	115.5	118.4
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	--	4.8	111.7	111.9	115.5
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	--	5.8	113	113.8	117.1
Toluene	<1	µg/L	1	<1	09/09/03	8260b	--	6.1	92.1	105.4	98.4

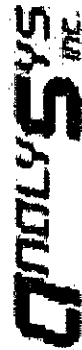
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Richard Laster

Richard Laster

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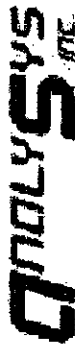
Project ID: 2000-10615
Sample Name: WECOSN9203SMW

Report#/Lab ID#: 146885
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	79.5	50-150	---
	8015 mod.	91.7	50-150	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	97.1	80-120	---
	8260b	110	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

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Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 146886

Report Date: 09/10/03

Project ID: 2000-10615

Sample Name: WECOSN9203WMW

Sample Matrix: water

Date Received: 09/04/2003

Time: 10:30

Date Sampled: 09/02/2003

Time: 13:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Total dissolved solids	1900	mg/L	1	<1	09/08/03	160.1	---	1.17	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	4.1	98.7	122.9	98.7
TPH by GC (as diesel-ext)	---	---	---	---	09/09/03	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	5.2	97.5	121.1	100.1
Chloride	726	mg/L	5	<5	09/08/03	325.2&9251	---	2.44	81.96	107.27	97.39
Volatile organics-8260b/BTEX	---	---	---	---	09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3.8	89.6	100.3	91.2
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	3.4	113.4	115.5	118.4
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	4.8	111.7	111.9	115.5
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	5.8	113	113.8	117.1
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	6.1	92.1	105.4	98.4

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN9203WMW

Report#/Lab ID#: 146886

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	70.9	50-150	--
p-Terphenyl	8015 mod.	77.6	50-150	--
1,2-Dichloroethane-d4	8260b	95.1	80-120	--
Toluene-d8	8260b	107	88-110	--

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 146887 Report Date: 09/10/03

Project ID: 2000-10615

Sample Name: WECOSN9203CMW

Sample Matrix: water

Date Received: 09/04/2003 Time: 10:30

Date Sampled: 09/02/2003 Time: 14:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Total dissolved solids	3920	mg/L	1	<1	09/08/03	160.1	--	1.17	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	--	4.1	98.7	122.9	98.7
TPH by GC (as diesel-ext)	--	--	--	--	09/09/03	3510	--	--	--	--	--
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	--	5.2	97.5	121.1	100.1
Chloride	1610	mg/L	25	<25	09/08/03	325.2&9251	--	2.44	81.96	107.27	97.39
Volatile organics-8260b/BTEX	--	--	--	--	09/09/03	8260b	--	--	--	--	--
Benzene	<1	µg/L	1	<1	09/09/03	8260b	--	3.8	89.6	100.3	91.2
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	--	3.4	113.4	115.5	118.4
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	--	4.8	111.7	111.9	115.5
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	--	5.8	113	113.8	117.1
Toluene	<1	µg/L	1	<1	09/09/03	8260b	--	6.1	92.1	105.4	98.4

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Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN9203CMW

Report#/Lab ID#: 146887

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	75	50-150	--
	8015 mod.	85.3	50-150	--
1,2-Dichloroethane-d4 Toluene-d8	8260b	91.9	80-120	--
	8260b	107	88-110	--

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Euine NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 146888 Report Date: 09/10/03

Project ID: 2000-10615

Sample Name: WECOSN9203EMW

Sample Matrix: water

Date Received: 09/04/2003 Time: 10:30

Date Sampled: 09/02/2003 Time: 15:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Total dissolved solids	5570	mg/L	1	<1	09/08/03	160.1	---	1.17	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	4.1	98.7	122.9	98.7
TPH by GC (as diesel-ext)	---	---	---	---	09/09/03	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	5.2	97.5	121.1	100.1
Chloride	2490	mg/L	25	<25	09/08/03	325.2&9251	---	2.44	81.96	107.27	97.39
Volatile organics-8260b/BTEX	---	---	---	---	09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3.8	89.6	100.3	91.2
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	3.4	113.4	115.5	118.4
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	4.8	111.7	111.9	115.5
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	5.8	113	113.8	117.1
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	6.1	92.1	105.4	98.4

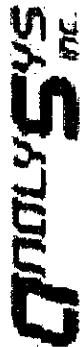
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Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WECOSN9203EMW

Report#/Lab ID#: 146888

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	81.6	50-150	---
p-Terphenyl	8015 mod.	93.2	50-150	---
1,2-Dichloroethane-d4	8260b	102	80-120	---
Toluene-d8	8260b	109	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 147950 **Report Date:** 10/15/03

Project ID: 2000-10615

Sample Name: WLESN10603SMW

Sample Matrix: water

Date Received: 10/09/2003 **Time:** 10:30

Date Sampled: 10/06/2003 **Time:** 10:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/09/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/09/03	8260b	---	3.5	87.8	90.3	86.9
Ethylbenzene	<1	µg/L	1	<1	10/09/03	8260b	---	0.2	108	111	110.9
m,p-Xylenes	<1	µg/L	1	<1	10/09/03	8260b	---	0.1	109.7	114.3	111.8
o-Xylene	<1	µg/L	1	<1	10/09/03	8260b	---	0	116	119.5	117.8
Toluene	<1	µg/L	1	<1	10/09/03	8260b	---	4.2	93.6	98.7	92.2

QUALITY ASSURANCE DATA¹

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Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (<) values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	Project ID: 2000-10615	Report#/Lab ID#: 147950
Attn: Pat McCasland	Sample Name: WLESNI0603SMW	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	116	80-120	---
Toluene-d8	8260b	100	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 147951 Report Date: 10/15/03

Project ID: 2000-10615

Sample Name: WLESN10603WMW

Sample Matrix: water

Date Received: 10/09/2003 Time: 10:30

Date Sampled: 10/06/2003 Time: 11:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/10/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/10/03	8260b	---	3.5	87.8	90.3	86.9
Ethylbenzene	<1	µg/L	1	<1	10/10/03	8260b	---	0.2	108	111	110.9
m,p-Xylenes	<1	µg/L	1	<1	10/10/03	8260b	---	0.1	109.7	114.3	111.8
o-Xylene	<1	µg/L	1	<1	10/10/03	8260b	---	0	116	119.5	117.8
Toluene	<1	µg/L	1	<1	10/10/03	8260b	---	4.2	93.6	98.7	92.2

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
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Client: Environmental Plus, Inc. Attn: Pat McCasland	Project ID: 2000-10615 Sample Name: WLESN10603WMW	Report#/Lab ID#: 147951 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	92.4	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 147952 Report Date: 10/15/03

Project ID: 2000-10615

Sample Name: WLESN10603CMW

Sample Matrix: water

Date Received: 10/09/2003 Time: 10:30

Date Sampled: 10/06/2003 Time: 13:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/10/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/10/03	8260b	---	3.5	87.8	90.3	86.9
Ethylbenzene	<1	µg/L	1	<1	10/10/03	8260b	---	0.2	108	111	110.9
m,p-Xylenes	<1	µg/L	1	<1	10/10/03	8260b	---	0.1	109.7	114.3	111.8
o-Xylene	<1	µg/L	1	<1	10/10/03	8260b	---	0	116	119.5	117.8
Toluene	<1	µg/L	1	<1	10/10/03	8260b	---	4.2	93.6	98.7	92.2

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WLESN10603CMW

Report#/Lab ID#: 147952

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.8	80-120	---
Toluene-d8	8260b	91.8	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Environmental Plus, Inc.

Attn: Pat McCasland

Address: 2100 Ave. O

Eunice

NM 88231

Phone: (505) 394-3481

FAX: (505) 394-2601

Report#/Lab ID#: 147953

Report Date: 10/15/03

Project ID: 2000-10615

Sample Name: WLESN10603EMW

Sample Matrix: water

Date Received: 10/09/2003

Time: 10:30

Date Sampled: 10/06/2003

Time: 14:45

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/10/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/10/03	8260b	---	3.5	87.8	90.3	86.9
Ethylbenzene	<1	µg/L	1	<1	10/10/03	8260b	---	0.2	108	111	110.9
m,p-Xylenes	<1	µg/L	1	<1	10/10/03	8260b	---	0.1	109.7	114.3	111.8
o-Xylene	<1	µg/L	1	<1	10/10/03	8260b	---	0	116	119.5	117.8
Toluene	<1	µg/L	1	<1	10/10/03	8260b	---	4.2	93.6	98.7	92.2

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Respectfully Submitted,

Richard Laster

Richard Laster

QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Pat McCasland

Project ID: 2000-10615

Sample Name: WLESN10603EMW

Report#/Lab ID#: 147953
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	91.2	88-110	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Bill to (if diff. at):

4221 Freidrich Lane, Suite 190, Austin, TX 7874.
(512) 444-5896

Analyses Requested (1)

(1) Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants (ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

(Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

July 5, 2001

CERTIFIED MAIL
RETURN RECEIPT NO. 3771-7415

Mr. Wayne Brunette
EOTT Energy Pipeline Limited Partnership
P.O. Box 272
Odessa, Texas 79760-0272

RE: CASE # 1R0038
SHELL NORTH SITE
LEA COUNTY, NEW MEXICO

Dear Mr. Brunette:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Pipeline Limited Partnership's (EOTT) July 5, 2001 untitled e-mail which was submitted on behalf of EOTT by their consultant Environmental Plus, Inc. This document contains EOTT's proposal for installation of monitor wells to determine the extent of ground water contamination related to a crude oil pipeline spill at EOTT's Shell North site located in the SE/4 of Section 12, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

The above referenced proposal is approved with the following conditions:

1. EOTT shall complete the new monitor wells as follows:
 - a. At least 15 feet of well screen shall be placed across the water table interface with 5 feet of the well screen above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.

Mr. Wayne Brunette

July 5, 2001

Page 2

- c. A 2-3 foot bentonite plug shall be placed above the gravel pack.
 - d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.
 - e. A concrete pad and locking well cover shall be placed at the surface.
 - f. The well shall be developed after construction using EPA approved procedures.
2. No less than 24 hours after the wells are developed, ground water from all site monitor wells shall be purged, sampled and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene, polycyclic aromatic hydrocarbons (PAH), total dissolved solids (TDS) and New Mexico Water Quality Control Commission (WQCC) metals and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC).
3. All wastes generated during the investigation shall be disposed of at an OCD approved facility.
4. EOTT shall submit the results of the investigation to the OCD by September 5, 2001. The report shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and shall include the following investigative information:
- a. A description of the investigation activities which occurred including conclusions and recommendations.
 - b. A geologic/lithologic log and well completion diagram for each monitor well.
 - c. A water table map showing the location of the spills, excavated areas, monitor wells, recovery wells and any other pertinent site features as well as the direction and magnitude of the hydraulic gradient created using the water table elevation from each monitor well.
 - d. Isopleth maps for contaminants observed during the investigations.
 - e. Summary tables of all ground water quality sampling results and copies of all recent laboratory analytical data sheets and associated QA/QC data.
 - f. The disposition of all wastes generated.

Mr. Wayne Brunette

July 5, 2001

Page 3

Please be advised that OCD approval does not relieve EOTT of responsibility should the investigation actions fail to adequately define the extent of contamination related to EOTT's pipeline, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve EOTT of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

A handwritten signature in cursive script, appearing to read "Will Olson".

William C. Olson

Hydrologist

Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office
Pat McCasland, Environmental Plus, Inc.
Clay Osborn

Olson, William

From: ENVIPLUS1@aol.com [SMTP:ENVIPLUS1@aol.com]
Sent: Thursday, July 05, 2001 7:42 AM
To: wolson@state.nm.us
Cc: wprice@state.nm.us
Subject: (no subject)

Mr. Olson,

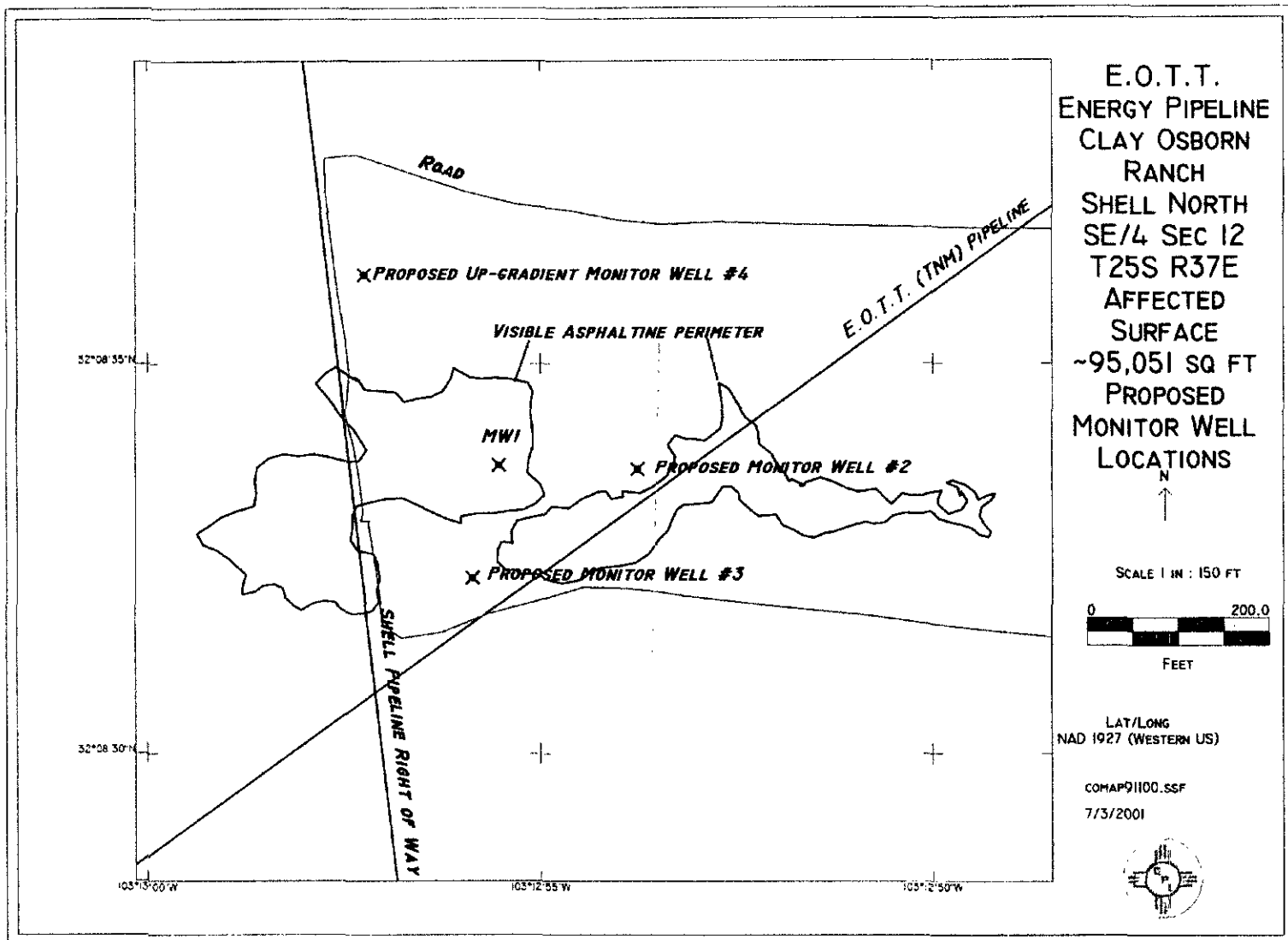
Attached is the map of the E.O.T.T. Shell North Site, on the Clay Osborn Ranch northwest of Jal, New Mexico. The map shows the proposed monitor well locations. The information collected from these wells will be used to develop a ground water remediation plan strategy. Please review and provide your consensus.

Sincerely,
Pat McCasland



ShellNorthMap.jpg

EPI



Olson, William

From: ENVIPLUS1@aol.com [SMTP:ENVIPLUS1@aol.com]
Sent: Wednesday, September 06, 2000 11:16 AM
To: Olson, William; Williams, Donna
Cc: glenn.waldrop@eott.com; ashook@entrix.com
Subject: Impacted ground water at the Clay Osborn Shell North Site

Mr. Bill Olson
2040 South Pacheco
Santa Fe, New Mexico 87505

Ms. Donna Williams
1625 French Drive
Hobbs, New Mexico 88240

Subject: Notification of impacted ground water at the E.O.T.T. Clay Osborn Shell North Site.

Environmental Plus, Inc., as the representative for E.O.T. T. Energy Pipeline, submits this written notification to verify the prior verbal notification made on September 1, 2000 by Mr. Wayne Brunette.

On September 1, 2000, Mr. Wayne Brunette of E.O.T.T. Energy Pipeline verbally notified the Santa Fe and Hobbs offices of the NMOCD regarding impacted ground water at the E.O.T.T. Clay Osborn Shell North site located approximately 2 miles northwest of Jai, New Mexico. This is an old site associated with a crude oil transportation line currently being investigated and environmentally characterized by E.O.T.T. and is likely to be more than 10 years old. In lieu of the form C-141, the following information is submitted.

Company: E.O.T.T. Energy Pipeline
Attn: Mr. Glenn Waldrop or Mr. Wayne Brunette
P.O. Box 1660
Midland, Tx 79703

Telephone: 915.684.3453
FAX: 915.684.3456

Facility Type: Inactive Crude Oil Pipeline

Facility Name: E.O.T.T.: Clay Osborn "Shell" North

Location: Lea County Sec12, T25S, R36E
Lat/Long: 32 08 33N / 103 13 03W
Type of Release: Crude Oil
Volume: unknown
Volume Recovered: unknown
Source of Release: Crude Oil Pipeline
Date of Occurrence: Unknown
Verbal Notification: September 1, 2000 (Bill Olson, Santa Fe and Donna Williams, Hobbs)

On August 31, 2000, during the site investigation, soil contamination was observed down to 45' bgs. The borehole was advanced into the saturated zone and a temporary sampling well installed and developed. On September 1, 2000 the purged water was placed in a clean bucket, at which time a sheen was observed and documented. The NMOCD was notified immediately. The water was sampled and transmitted to the laboratory for analyses.

Currently the site poses no risk to the public or wildlife and there are no domestic or agricultural water wells located within .25 miles of the site.

Sincerely,

Pat McCasland
Environmental Plus, Inc.
P.O. Box 1558
Eunice, New Mexico 88231
505.394.3481

MEMORANDUM OF MEETING OR CONVERSATION



Telephone



Personal

Time

0930

Date

9/1/00

Originating Party

Other Parties

Wayne Brunette - EOTT

Bill Olson - Envir. Bureau

Subject

North Shell Site - sec 12, T25S, R36E

Discussion

Performed site assessment on spill site on Osborn Ranch

Discovered ground water at approx. 46 feet
Shown on ground water

Conclusions or Agreements

EOTT will follow up with written report in 15 days

Distribution

Chris Williams - OCD Hobbs

Signed

Bill Olson