

**EPFS GROUNDWATER PITS
1999 CLOSURE REPORT**

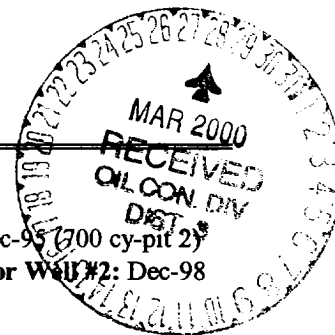
**TURNER A #1 PM (PIT #1 & #2)
Meter/Line ID - 71676**

SITE DETAILS

Legals - Twn: 31N Rng: 11W Sec: 34 Unit: K
NMOCD Hazard Ranking: 40 Land Type: STATE
Operator: BURLINGTON RESOURCES

PREVIOUS ACTIVITIES

Site Assessment: Apr-94 Excavation: Apr-94 (40 cy-pit 1) Excavation: Dec-95 (700 cy-pit 2)
Soil Boring: Mar-97 Monitor Well #1: Mar-97 Monitor Well #2: Dec-98
(pit 2)
Quarterly Sampling Initiated (Pit #1): August-97
Quarterly Sampling Initiated (Pit #2): December-98



All supporting documentation for activities prior to 1999 can be found in the Annual Report for the year the activity occurred.

1999 ACTIVITIES

Quarterly Groundwater Monitoring- Quarterly groundwater monitoring of MW-1 and MW-2 continued through 1999.
Provided Operator with Site Data - EPFS has provided operator with all pertinent site data generated to date.

SUMMARY TABLES

Historical groundwater analytical data and groundwater analytical data from 1999 are presented in Table 1. Copies of the 1999 laboratory data sheets and associated quality assurance/quality control data are presented in Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 1999.

DISPOSITION OF GENERATED WASTES

There were no generated wastes at this site in 1999.

ISOCONCENTRATION MAPS

BTEX parameters were below regulatory standards and isoconcentration maps were not generated.

CONCLUSIONS

Analytical results of groundwater samples collected from MW-1 (Pit #1) show that BTEX constituents were below New Mexico Water Quality Standards for groundwater for 5 consecutive quarters. Analytical results of groundwater samples collected from MW-2 (Pit #2) show that BTEX

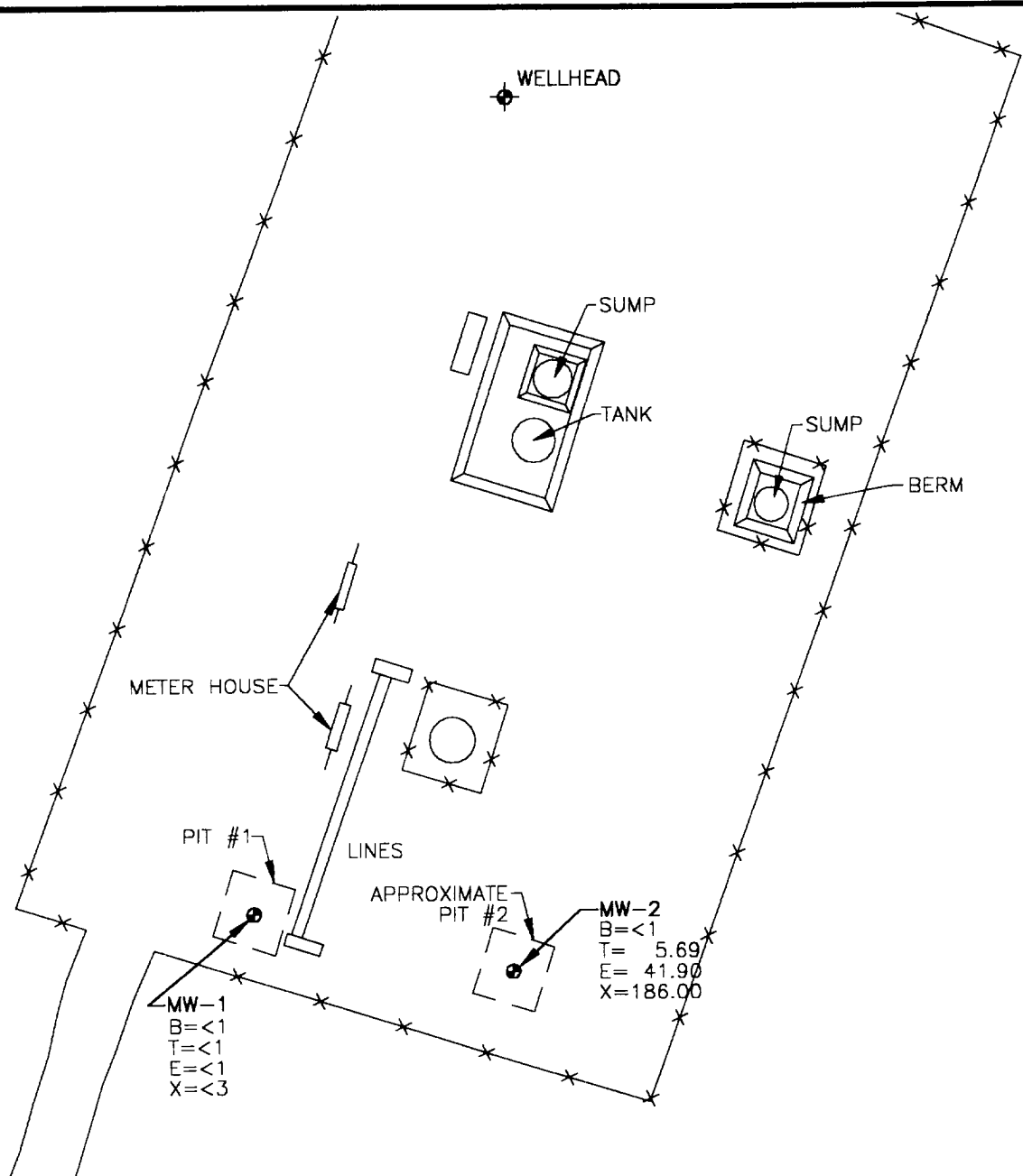
EPFS GROUNDWATER PITS 1999 CLOSURE REPORT

constituents were below New Mexico Water Quality Standards for groundwater for 4 consecutive quarters.

Pertinent data from past groundwater reports include the following: A groundwater gradient map generated for the 1997 groundwater report that included data collected from temporary wellpoints shows that the groundwater gradient is to the west at this site. Based on the sampling results from four consecutive quarters, EPFS has demonstrated that groundwater is below NMWQCC Standards for the monitoring wells at this site. Therefore, EPFS requests closure of this site.

RECOMMENDATIONS

- EPFS requests closure of this site.
- Following OCD approval for closure, MW-1 and MW-2 will be abandoned in accordance with the Monitoring Well Abandonment Plan.



LEGEND

● MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION

B BENZENE (ug\L)
T TOLUENE (ug\L)
E ETHYL BENZENE (ug\L)
X XYLENE (ug\L)

ug\L MICROGRAMS PER LITER



COL 17520P-003



TITLE:

TURNER A1
METER 71676
OCTOBER 3, 1999

DWN:

CJG

DES.:

CI

PROJECT NO.:

17520

EPFS GW PITS

CHKD:

CI

APPD:

DATE:

02/10/00

REV.:

0

FIGURE 1

TABLE 1
Pit #1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
980146	71676	Turner A #1	02/06/98	1	Sample 4 - 3rd Quarter	= 12.70	= 9.99	= 8.95	= 10.9	= 43.00
980384	71676	Turner A #1	05/08/98	1	Sample 4 - 4th Quarter	= 26.50	< 1.00	= 11.00	= 17.8	= 55.00
980548	71676	Turner A #1	08/06/98	1	Sample 4 - 5th Quarter	= 7.13	= 3.39	= 1.00	< 3.0	= 11.00
980792	71676	Turner A #1	11/03/98	1	Sample 4 - 6th Quarter	= 1.49	= 0.98	= 1.05	< 3.0	= 3.51
990038	71676	Turner A #1	02/16/99	1	Sample 4 - 7th Quarter	= 4.78	< 1.00	= 2.65	= 12.4	= 20.00
990207	71676	Turner A #1	05/04/99	1	Sample 4 - 8th Quarter	= 3.03	< 1.00	= 1.07	= 7.1	= 11.00
990334	71676	Turner A #1	08/03/99	1	Sample 4 - 9th Quarter	< 1.00	< 1.00	= 1.00	< 3.0	< 6.00

Pit #2

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
980864	71676	Turner A #1(Pit #2)	12/15/98	2	Sample 4 - Initial	= 23	= 98	= 110	= 820	= 1051
990039	71676	Turner A #1(Pit #2)	02/16/99	2	Sample 4 - 1st Quarter	< 1	= 26.8	= 59.9	= 422	= 509
990208	71676	Turner A #1(Pit #2)	05/04/99	2	Sample 4 - 2nd Quarter	< 2.57	= 16	= 38.1	= 272	= 329
990336	71676	Turner A #1(Pit #2)	08/03/99	2	Sample 4 - 3rd Quarter	< 1	= 5.69	= 41.9	= 186	= 234
990444	71676	Turner A #1(Pit #2)	11/10/99	2	Sample 4 - 4th Quarter	< 3.3	= 7.8	= 13.0	= 61	= 85

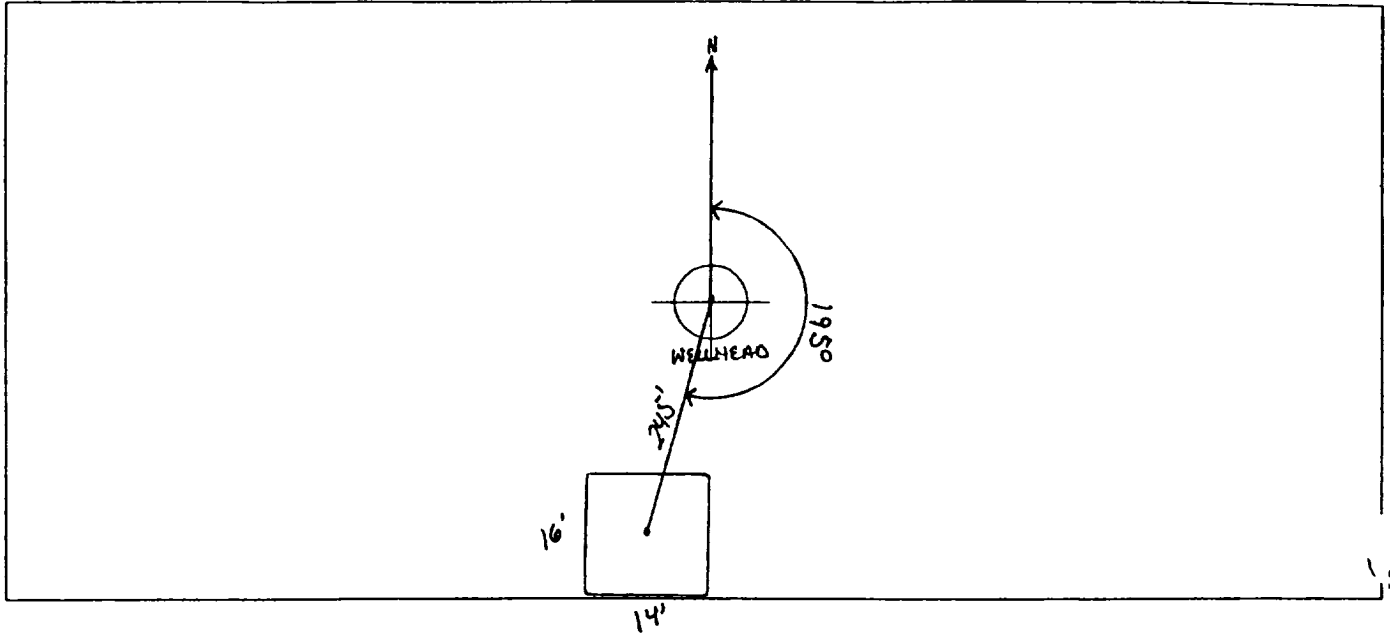
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>71676</u> Location: <u>TURNER A #1</u> Operator #: _____ Operator Name: <u>MERIDIAN P/L</u> District: <u>KUTZ</u> Coordinates: Letter: <u>K</u> Section <u>34</u> Township: <u>31</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>12-9-94</u> Area: <u>02</u> Run: <u>72</u>								
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)								
	Land Type: <table border="0"> <tr> <td>BLM</td> <td><input type="checkbox"/> (1)</td> </tr> <tr> <td>State</td> <td><input type="checkbox"/> (2)</td> </tr> <tr> <td>Fee</td> <td><input checked="" type="checkbox"/> (3)</td> </tr> <tr> <td>Indian</td> <td>_____</td> </tr> </table>		BLM	<input type="checkbox"/> (1)	State	<input type="checkbox"/> (2)	Fee	<input checked="" type="checkbox"/> (3)	Indian
BLM	<input type="checkbox"/> (1)								
State	<input type="checkbox"/> (2)								
Fee	<input checked="" type="checkbox"/> (3)								
Indian	_____								
REMARKS	Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)								
	Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? <input checked="" type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points)								
Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)									
Name of Surface Water Body <u>ANIMAS RIVER</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)									
Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'									
TOTAL HAZARD RANKING SCORE: <u>50</u> POINTS									
Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE V.Z. TWO PITS ON LOCATION. ONE BELONGS TO MERIDIAN. WILL CLOSE SPNG'S DEHY PIT.</u>									
<u>DIG & HAUL</u>									

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 195° Footage from Wellhead 245'
b) Length : 16' Width : 14' Depth : 7'



REMARKS

Remarks :

PHOTOS-1004

Completed By:

Robert Thompson

Signature

12-9-94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>71676</u> Location: <u>Turner #1A</u> Coordinates: Letter: <u>K</u> Section <u>34</u> Township: <u>31</u> Range: <u>11</u> Or Latitude _____ Longitude _____ Date Started : <u>4-26-94</u> Area: <u>02</u> Run: <u>72</u>
FIELD OBSERVATIONS	Sample Number(s): ⁹⁴⁵⁰¹⁰ <u>KD33</u> Sample Depth: <u>6'</u> Feet Final PID Reading <u>341 ppm</u> PID Reading Depth <u>6'</u> Feet Yes No Groundwater Encountered <input checked="" type="checkbox"/> (1) <input type="checkbox"/> (2) Approximate Depth <u>6ft</u> Feet
CLOSURE	Remediation Method : Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>40</u> Onsite Bioremediation <input type="checkbox"/> (2) Backfill Pit Without Excavation <input type="checkbox"/> (3) Soil Disposition: Envirotech <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra Other Facility <input type="checkbox"/> (2) Name: _____ Pit Closure Date: _____ Pit Closed By: _____
REMARKS	Remarks : <u>At 6' Ran into Ground water, Notified EPA/6 Inspector Alton James. Sample TAKen At water level. OCD Inspector wanted to Dig Around Pit to Edge of Contamination, He uncovered an unknown Pipe stop excavation, Left Pit open.</u>
SIGNATURE	Signature of Specialist: <u>[Signature]</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	946539
MTR CODE SITE NAME:	71676
SAMPLE DATE:	12/19/94
SAMPLE TIME (Hrs):	0845
SAMPLED BY:	ARS
DATE OF BTEX ANALYSIS:	12/28/94
SAMPLE TYPE:	Ground Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<5.00		10
TOLUENE	<5.00		740
ETHYL BENZENE	<5.00		750
TOTAL XYLENES	<15.00		620
SURROGATE % RECOVERY	93.8	Allowed Range 80 to 120 %	

NOTES:

Approved By:

John Savin

1-6-95

Date

BTEX WATER SAMPLE WORKSHEET

File : 946539B
Water Volume (mL) : 2.500

Date Printed : 12/28/94
DF (Report) : 2.00

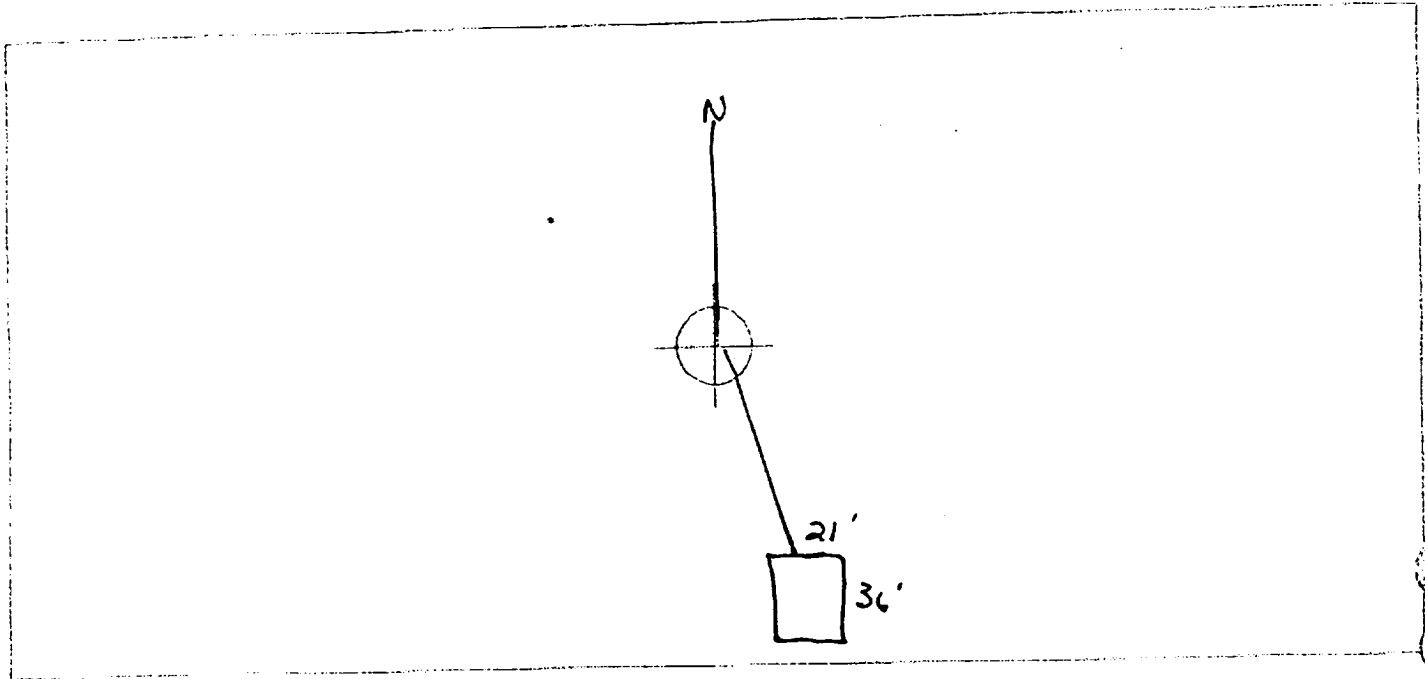
Analytical Values		Reported Values		Det. Limit
Benzene (ug/L) :	0.00	Benzene (ug/L) :	0.000	5.00
Toluene (ug/L) :	0.00	Toluene (ug/L) :	0.000	5.00
Ethylbenzene (ug/L) :	0.00	Ethylbenzene (ug/L) :	0.000	5.00
p & m-xylene (ug/L) :	1.70	p & m-xylene (ug/L) :	3.400	10.00
o-xylene (ug/L) :	0.70	o-xylene (ug/L) :	1.400	5.00
		Total xylenes (ug/L) :	4.800	60.00
		Total BTEX (ug/L) :	4.800	

FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>71676²</u> Location: <u>TUNNER A1 "PM"</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>6</u> Section: <u>34</u> Township: <u>31</u> Range: <u>11W</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____ Site Assessment Date: <u>11-17-95</u> Area: <u>02</u> Run: <u>72</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: _____ Land Type: BLM <input type="checkbox"/> (1) (From NMOCD State <input checked="" type="checkbox"/> (2) Maps) Inside <input checked="" type="checkbox"/> (1) Fee <input type="checkbox"/> (3) Outside <input type="checkbox"/> (2) Indian _____</p> <p>Depth to Groundwater Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; is it less than 200 ft from a private domestic water source? <input checked="" type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>Animas River</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>50</u> POINTS</p>
REMARKS	<p>Remarks <u>Pit is DRY - LISTED INSIDE V:2.</u> <u>Pit Belongs To EPNG. LOCATION IS CONGESTED</u> <u>D. J. Haul</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 345° Footage from Wellhead 92'
 b) Length : 36 Width : 21 Depth : 3



Remarks :

Pictures # 1, 2, 3, in Roll

Completed By:

Volker Schmatke
 Signature

11-17-95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: ^{RLB 12/12/95} <u>71676-2</u> Location: <u>TURNER A1 "PM"</u></p> <p>Coordinates: Letter: <u>G</u> Section <u>34</u> Township: <u>31</u> Range: <u>11W</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-5-95</u> Run: <u>02</u> <u>72</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>N5139</u> <u>N5140</u></p> <p>Sample Depth: <u>6</u> Feet</p> <p>Final PID Reading <u>1127</u> PID Reading Depth <u>4</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input checked="" type="checkbox"/> <input type="checkbox"/> Approximate Depth <u>5</u> Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>700</u> ^{288 12/14/95}</p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> <input checked="" type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12-6-95</u> Pit Closed By: <u>Philip</u></p> <p><u>APP. BY: ALTON JAMES E.P.N.C.</u></p>
MARKS	<p>Remarks : <u>EXCAVATED Pit TO 59X42X6 PED READINGS (N-2.5XS-1.4XE-2.7)</u></p> <p><u>(W-89.0) (Bottom 1100+ app meter) Hit River Rock & Ground water @ 5'</u></p> <p><u>Notified O.C.O.</u></p> <p>Fencing <u>21</u> X <u>34</u> X <u>3</u> Netting <u>Y</u> <u>N-4</u></p> <p>Signature of Specialist: <u>[Signature]</u></p>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS 139	947833
MTR CODE SITE NAME:	71676	Turner G-1
SAMPLE DATE TIME (Hrs):	12-5-95	1330
PROJECT:	Phase III Excavation	Phase I Excavation 8/19/90
DATE OF TPH EXT. ANAL.:	12/14/95	
DATE OF BTEX EXT. ANAL.:	12/13/95	12/13/95
TYPE DESCRIPTION:	VC	Brown clay & sand

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	22	MG/KG			1.99 22	28
HEADSPACE PID	1127	PPM				
PERCENT SOLIDS	89.0	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at
Narrative:

94%

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

Date:

12/15/95



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 947834
FIELD ID: NS140
MTR CODE: 71676
SAMPLE DATE: 12-5-95
SAMPLE TYPE: W [Exc.]
SITE NAME: Turner G-1
PROJECT: Phase III Exc Phase I KLB 12/12/95
DATE OF BTEX ANALYSIS: 12/7/95

FIELD COMMENTS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)			None
BENZENE (PPB)	118	D (x5)	10
TOLUENE (PPB)	262	D (x5)	740
ETHYL BENZENE (PPB)	40.5	D (x5)	750
TOTAL XYLENES (PPB)	477	D (x5)	620
SURROGATE % RECOVERY	98%	Allowed Range 80 to 120 %	

NOTES:

Approved By:

12/11/95
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>71676</u> Location: <u>TURNER A.1</u></p> <p>Coordinates: Letter: <u>K</u> Section <u>34</u> Township: <u>31</u> Range: <u>11</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-19-94</u> Run: <u>02</u> <u>72</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP365</u></p> <p>Sample Depth: <u>5</u> Feet</p> <p>Final PID Reading <u>812</u> PID Reading Depth <u>5'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input checked="" type="checkbox"/> <input type="checkbox"/> Approximate Depth <u>5'</u> Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input type="checkbox"/> Approx. Cubic Yards _____</p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input checked="" type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12-19-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>ON THIS Pit it has already been EXCAVATED</u></p> <p><u>ALL we did was sample AND BACK FILL. AS per</u></p> <p><u>DENNY FAUTZ. Hit Lot of ROCKS</u></p>
	<p>Signature of Specialist: <u>Kelly Padell</u></p>

**SPLIT****FIELD SERVICES LABORATORY****ANALYTICAL REPORT****PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone****SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	KP 365	946538
MTR CODE SITE NAME:	71676	N/A
SAMPLE DATE TIME (Hrs):	12-19-94	0845
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-21-94	12-21-94
DATE OF BTEX EXT. ANAL.:	12/21/94	12/28/94
TYPE DESCRIPTION:	VC	Brown fine sand

REMARKS: BTEX results from ATI and EPNG**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	60.980	MG/KG	0.19608		2.55	20	60.5
TOLUENE	2.99	MG/KG	1		1	1	60.5
ETHYL BENZENE	8.77	MG/KG	1		1	1	5.6
TOTAL XYLENES	72.0	MG/KG	1		1	1	42
TOTAL BTEX	83.7	MG/KG					48.6
TPH (418.1)	4480	MG/KG			2.04	28	—
HEADSPACE PID	812	PPM					Surrogate % 108
PERCENT SOLIDS	91.2	%					Dilution Factor 20

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 158.7% for this samp All QA/QC was acceptable.Na ve: BFB coeluted

ATI results attached

O-xylene estimated - Low

DF = Dilution Factor Used

Approved By: JPDate: 2-22-95