3R - 295

GENERAL CORRESPONDENCE

YEAR(S):
1996

District I
P.O. Box 1980, Hobbes, NM

District II
P.O. Drawer DD, Arteus, NM 88211

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resource Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE
(Revised 3/9/94)

OK

PIT REMEDIATION AND CLOSURE REPORT

Operator: MOBIL PRODUCING T&NM INC. Telephone: (505) 632-1891

Address: P.O. BOX 185, BLOOMFIELD, NM 87413

Facility Or: LINDRITH "B" #77
Well Name

Location: Unit or Qtr/Qtr Sec L Sec 01 T 24N R 3W County RIO ARRIBA

Pit Type: Separator XX Dehydrator ____ Other ____

Land Type: BLM ____ State ____ Fee XX Other ____

Pit Location: (Attach diagram) Pit dimensions: Length 38 width 41 depth 26

Reference: wellhead ____ Other ____ See Attached

Footage from reference: ____

Direction from reference: ____ Degrees ____ East North ____ of ____ West South ____

Depth To Ground Water: (Vertical Distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	20
Wellhead Protection Area: (less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 11/28/95 Date Completed: 12/15/95

Remediation Method: Excavation XX Approx. cubic yards 1500

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite XX Offsite _____

General Description of Remediation Action: CONTAMINATION WAS REMEDIATED BY DILUTION AND AERATION.

Ground Water Encountered: No _____ Yes _____ Depth _____

Final Pit:
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location See Attached

Sample depth 26

Sample date 12/04/95 Sample time 11:00:00

Sample Results

Benzene (ppm) 1

Total BTEX (ppm) 3

Field headspace (ppm) _____

TPH 37

Ground Water Sample: Yes XX No _____ (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 2/26/96

SIGNATURE Terry K. Hubele

PRINTED NAME AND TITLE Terry K. Hubele, P.E. Staff Environmental Engineer

PIT CLOSURE SAMPLING REPORT

OPERATOR : MOBIL PRODUCING TEXAS & NEW MEXICO, INC.

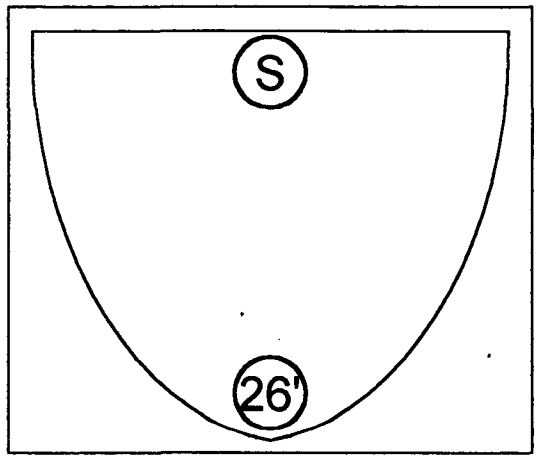
ADDRESS : P.O. BOX 185 BLOOMFIELD, NM 87413

WELL NAME OR FACILITY : LINDRITH "B" #77

PIT TYPE : SEPARATOR LEGALS : SEC. G-01 T24N R3W

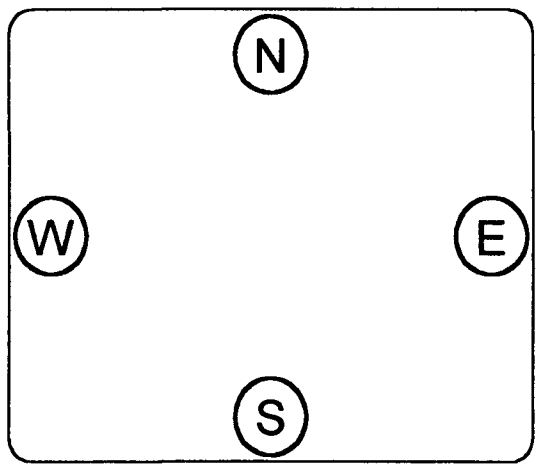
DEPTH	TPH	BENZENE	BTEX
SURFACE	51100		
4'	19700		
12'	5950		
26'	37	1.2	3.8

SIDE VIEW



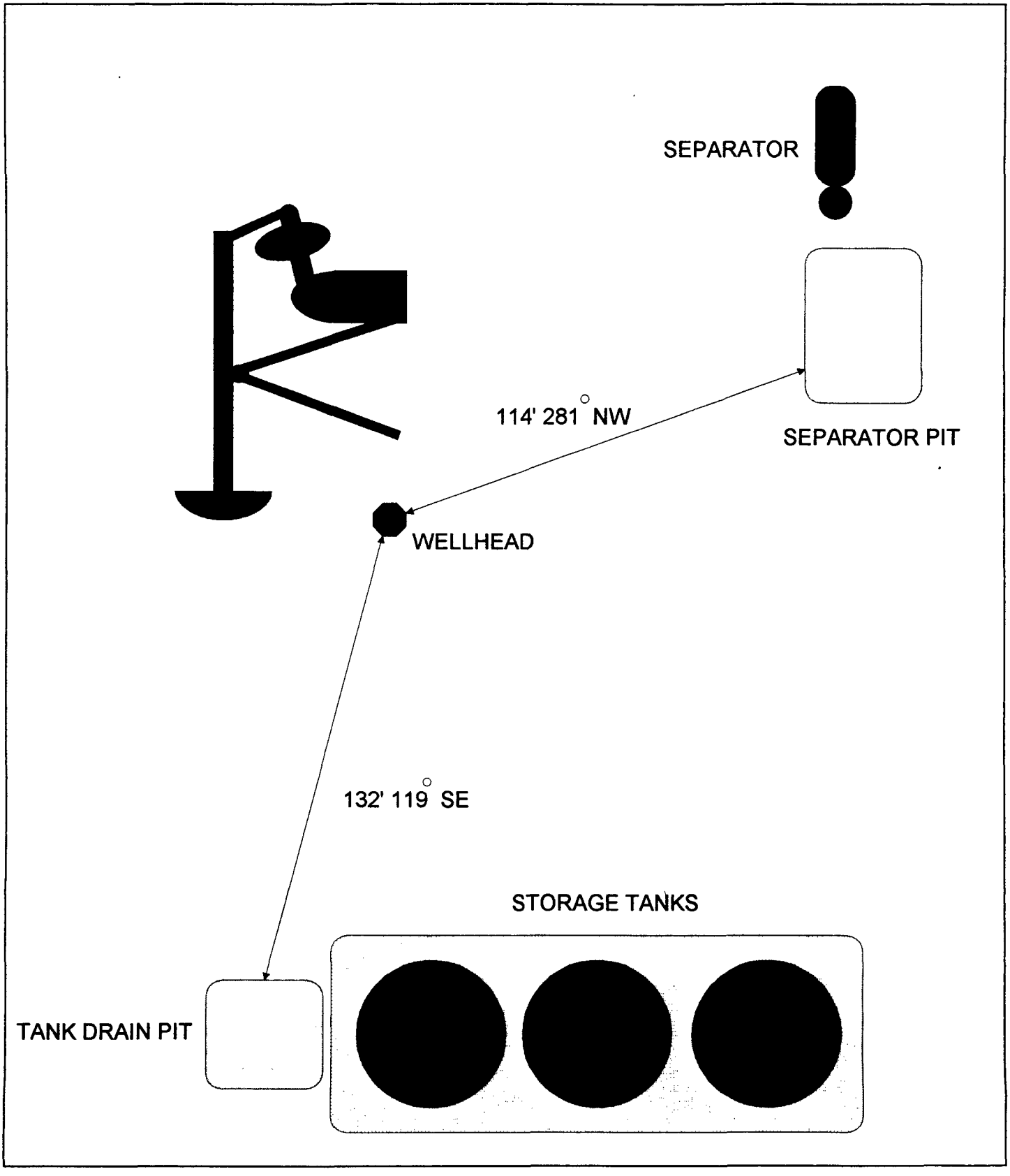
WALL	DEPTH	TPH	BENZENE	BTEX
NORTH	15'	68	1.2	1.6
SOUTH	15'	43	.7	1.7
EAST	15'	53	.4	3.8
WEST	15'	71	2.3	9.4

TOP VIEW



MOBIL PRODUCING TEXAS & NEW MEXICO INC.

LINDRITH "B" #77



ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Mobil E & P

Project ID:	Whole Earth Environmental	Report Date:	12/11/95
Sample ID:	B - 77 Separator Pit	Date Sampled:	12/07/95
Lab ID:	2157	Date Received:	12/08/95
Sample Matrix:	Water	Date Analyzed:	12/10/95
Preservative:	Cool		
Condition:	Plastic container		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	0.23	0.20
Ethylbenzene	0.25	0.20
m,p-Xylenes	0.63	0.40
o-Xylene	ND	0.20

Total BTEX	**1.11**

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	90	88 - 110%
Bromofluorobenzene	93	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA

ENVIRONMENTAL LABORATORY

November 30, 1995

Kirk Bennett
Mobil E & P, Inc.
PO Box 185
Bloomfield, NM 87413

Dear Mr. Bennett:

Enclosed are the results for the analysis of the aqueous sample received on November 29, 1995 from Stacy Stibling of Whole Earth Environmental. The sample was received intact. Analysis for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) was performed on the sample, as per the chain of custody.

Analysis was performed on the sample according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the sample, as reported.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely,

Denise A. Bohemier
Lab Director

807 SOUTH CARLTON • FARMINGTON, NEW MEXICO 87401 • (505) 326-2395

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Mobil Exploration and Production

Project ID:	Whole Earth Environmental	Report Date:	11/30/95
Sample ID:	B - 77	Date Sampled:	11/28/95
Lab ID:	1999	Date Received:	11/29/95
Sample Matrix:	Water	Date Analyzed:	11/29/95
Preservative:	Cool		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	39.9	5.00
Toluene	92.6	5.00
Ethylbenzene	41.3	5.00
m,p-Xylenes	271	10.0
o-Xylene	112	5.00

Total BTEX	**556**

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	102	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

Purgeable Aromatics

Matrix Spike Analysis

Lab ID:	1999Spk	Report Date:	11/30/95
Sample Matrix:	Water	Date Sampled:	11/28/95
Preservative:	Cool	Date Received:	11/29/95
Condition:	Intact	Date Analyzed:	11/29/95

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	100	39.9	139	99%	39 -150
Toluene	100	92.6	190	97%	46 - 148
Ethylbenzene	100	41.3	141	99%	32 - 160
m,p-Xylenes	200	271	463	96%	NE
o-Xylene	100	112	218	106%	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Spike acceptance range not established by the EPA.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	99	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments: Calculation of spike recovery requires consideration of a sample dilution factor which is not applied to the spike added.

Analyst

Review

Purgeable Aromatics

Duplicate Analysis

Lab ID:	1999Dup	Report Date:	11/30/95
Sample Matrix:	Water	Date Sampled:	11/28/95
Preservative:	Cool	Date Received:	11/29/95
Condition:	Intact	Date Analyzed:	11/29/95

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	39.9	40.6	31.8 - 48.6
Toluene	92.6	98.5	77.4 - 114
Ethylbenzene	41.3	43.3	27.0 - 57.5
m,p-Xylenes	271	288	NE
o-Xylene	112	121	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Duplicate acceptance range not established by the EPA.

	Surrogate	Percent Recovery	Acceptance Limits
Quality Control:	Trifluorotoluene	101	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

PURGEABLE AROMATICS

Quality Control Report

Method Blank Analysis

Sample Matrix:	Water	Report Date:	11/30/95
Lab ID:	MB35032	Date Analyzed:	11/29/95

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	99	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

Page _____ of _____

PROJECT MANAGER:
Analytica Lab I.D.:

Company: Mobil Producing USA
Address: Bloomfield, NM
Phone: 632-1891
Fax:

Bill To: MOBIL E&P, INC.
Company: P.O. Box 155
Address: Bloomfield, NM 87413

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2– / NO3– / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):	COMMENTS
B-77	11/28	2:30pm						X																					

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name:	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via:	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature / Date: Stacy D. Stuffin 11/28/95	Signature / Date: Stacy D. Stuffin 11/28/95	Signature / Date:
Company: / Time: Wade Earth 3:30pm	Company: / Time: Wade Earth 8:55am	Company: / Time:
Received By:	**Received By:**	**Received By:**
Signature / Date:	Signature / Date:	Signature / Date: 11/29/95
Company: / Time:	Company: / Time:	Company: / Time: Analytica 9:00

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client

District I
P.O. Box 1980, Hobbes, NM

District II
P.O. Drawer DD, Arteus, NM 88211

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resource Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE
(Revised 3/9/94)

OK

PIT REMEDIATION AND CLOSURE REPORT

Operator: MOBIL PRODUCING T&NM INC. Telephone: (505) 632-1891

Address: P.O. BOX 185, BLOOMFIELD, NM 87413

Facility Or: LINDRITH "B" #77
Well Name

Location: Unit or Qtr/Qtr Sec G Sec 1 T 24N R 3W County RIO ARRIBA

Pit Type: Separator _____ Dehydrator _____ Other TANK DRAIN

Land Type: BLM _____ State _____ Fee XX Other _____

Pit Location: (Attach diagram)
Pit dimensions: Length 26 width 28 depth 24

Reference: wellhead _____ Other See Attached

Footage from reference: _____

Direction from reference: _____ Degrees _____ East North _____ of _____ West South _____

Depth To Ground Water: (Vertical Distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(0 points)	20
Wellhead Protection Area: (less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes	(20 points)	
	No	(0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 11/28/95 Date Completed: 12/15/95

Remediation Method: Excavation XX Approx. cubic yards 647

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite XX Offsite _____

General Description of Remediation Action: CONTAMINATION WAS REMEDIATED BY DILUTION AND AERATION.

Ground Water Encountered: No _____ Yes _____ Depth _____

Final Pit:
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location See Attached

Sample depth 24

Sample date 12/01/95 Sample time 11:00:00

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) 4

Field headspace (ppm) _____

TPH 34

Ground Water Sample: Yes _____ No XX (If yes, attach sample results)

I HEREBY CERTIFY THAT INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 2/26/96

SIGNATURE [signature]

PRINTED NAME AND TITLE Terry K. Hubele, P.E. Staff Environmental Engineer

PIT CLOSURE SAMPLING REPORT

OPERATOR : MOBIL PRODUCING TEXAS & NEW MEXICO, INC.

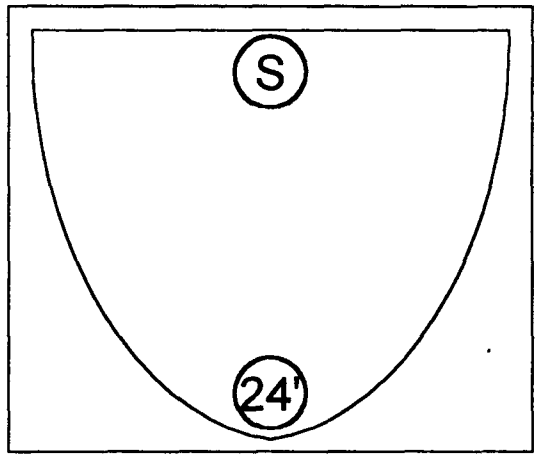
ADDRESS : P.O. BOX 185 BLOOMFIELD, NM 87413

WELL NAME OR FACILITY : LINDRITH "B" #77

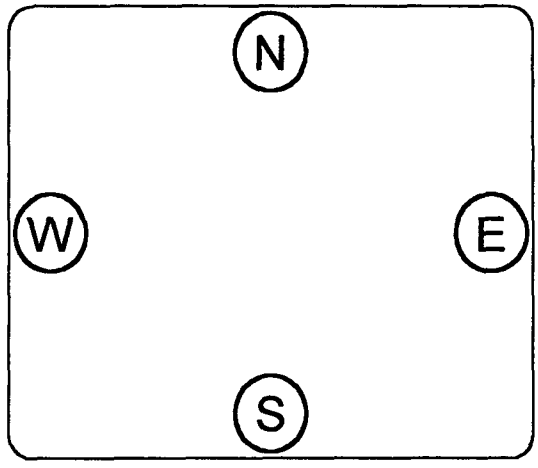
PIT TYPE : TANK DRAIN LEGALS : SEC. G-01 T24N R3W

DEPTH	TPH	BENZENE	BTEX
SURFACE	16100		
4'	17200		
12'	8940		
24'	34	<.1	4.3

SIDE VIEW



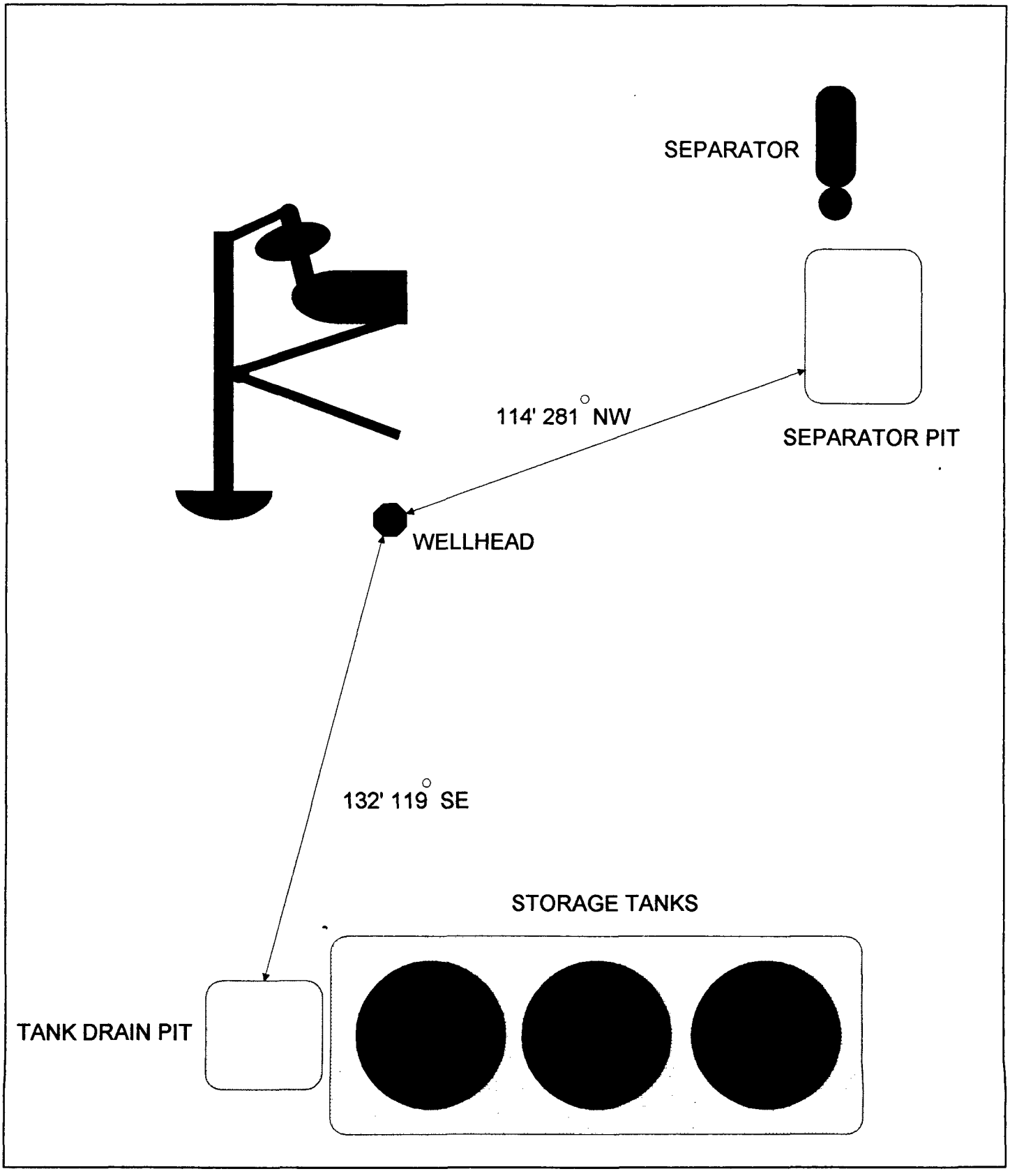
TOP VIEW



WALL	DEPTH	TPH	BENZENE	BTEX
NORTH	24'	76	1.5	4.6
SOUTH	24'	33	<.1	<1
EAST	24'	22	<.1	<1
WEST	24'	40	<.1	<1

MOBIL PRODUCING TEXAS & NEW MEXICO INC.

LINDRITH "B" #77



ANALYTICA

ENVIRONMENTAL LABORATORY

December 7, 1995

Kirk Bennett
Mobil E & P, Inc.
PO Box 185
Bloomfield, NM 87413

Dear Mr. Bennett:

Enclosed are the results for the analysis of the aqueous sample received on December 2, 1995 from Stacy Stibling of Whole Earth Environmental. The sample was received intact. Analysis for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) was performed on the sample, as per the chain of custody.

Analysis was performed on the sample according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the sample, as reported.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely,

Denise A. Bohemier
Lab Director

807 SOUTH CARLTON • FARMINGTON, NEW MEXICO 87401 • (505) 326-2395

Purgeable Aromatics

Matrix Spike Analysis

Lab ID:	2027Spk	Report Date:	12/07/95
Sample Matrix:	Water	Date Sampled:	12/01/95
Preservative:	Cool	Date Received:	12/02/95
Condition:	Intact	Date Analyzed:	12/06/95

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	0.38	10.6	103%	39 -150
Toluene	10	1.48	10.9	94%	46 - 148
Ethylbenzene	10	0.38	11.5	112%	32 - 160
m,p-Xylenes	20	1.31	21.2	99%	NE
o-Xylene	10	0.77	11.0	103%	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Spike acceptance range not established by the EPA.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	105	88 - 110%
Bromofluorobenzene	103	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Mobil E & P

Project ID:	Whole Earth Environmental	Report Date:	12/07/95
Sample ID:	B-77 TD	Date Sampled:	12/01/95
Lab ID:	2027	Date Received:	12/02/95
Sample Matrix:	Water	Date Analyzed:	12/06/95
Preservative:	Cool		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	0.38	0.20
Toluene	1.48	0.20
Ethylbenzene	0.38	0.20
m,p-Xylenes	1.31	0.40
o-Xylene	0.77	0.20

Total BTEX	**4.31**

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	105	88 - 110%
Bromofluorobenzene	93	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

Purgeable Aromatics

Duplicate Analysis

Lab ID:	2027Dup	Report Date:	12/07/95
Sample Matrix:	Water	Date Sampled:	12/01/95
Preservative:	Cool	Date Received:	12/02/95
Condition:	Intact	Date Analyzed:	12/06/95

Target Analyte	Original Conc. (ug/L)	Duplicate Conc. (ug/L)	Acceptance Range (ug/L)
Benzene	0.38	0.32	0 - 1.59
Toluene	1.48	1.69	0.34 - 2.83
Ethylbenzene	0.38	0.35	0 - 1.41
m,p-Xylenes	1.31	1.03	NE
o-Xylene	0.77	0.89	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Duplicate acceptance range not established by the EPA.

	Surrogate	Percent Recovery	Acceptance Limits
Quality Control:	Trifluorotoluene	101	88 - 110%
	Bromofluorobenzene	94	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

PURGEABLE AROMATICS

Quality Control Report

Method Blank Analysis

Sample Matrix: Water
Lab ID: MB35039

Report Date: 12/07/95
Date Analyzed: 12/06/95

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	102	88 - 110%
Bromofluorobenzene	92	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

Page _____ of _____

PROJECT MANAGER:
Analytica Lab I.D.:

Company: White Earth Env.
Address: 3030 E. Main St. #X414
Farmington, NM 87402
Phone: 320-3432
Fax:

Bill To: Mobil E&P USA, Inc
Company: P.O. Box 185
Address: Bloomfield NM 87413

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):	COMMENTS
B-7 T.D.	12/1	2:45						X																					

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name:	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via:	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature / Date: [signature] 12/1/95	Signature / Date: [signature] 12/2/95	Signature / Date:
Company: / Time: White Earth 2:45	Company: / Time: White Earth 9:00 AM	Company: / Time:
Received By:	**Received By:**	**Received By:**
Signature / Date:	Signature / Date:	Signature / Date: [signature] 12/2
Company: / Time:	Company: / Time:	Company: / Time: Analytica 9:30

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client

ANALYTICA

ENVIRONMENTAL LABORATORY

December 11, 1995

Kirk Bennett
Mobil E & P, Inc.
PO Box 185
Bloomfield, NM 87413

Dear Mr. Bennett:

Enclosed are the results for the analysis of the aqueous sample received on December 8, 1995 from Stacy Stibling of Whole Earth Environmental. The sample was received intact. Analysis for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) was performed on the sample, as per the chain of custody.

Analysis was performed on the sample according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the sample, as reported.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely,

Denise A. Bohemier
Lab Director

807 SOUTH CARLTON • FARMINGTON, NEW MEXICO 87401 • (505) 326-2395

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Mobil E & P

Project ID:	Whole Earth Environmental	Report Date:	12/11/95
Sample ID:	B - 77 Separator Pit	Date Sampled:	12/07/95
Lab ID:	2157	Date Received:	12/08/95
Sample Matrix:	Water	Date Analyzed:	12/10/95
Preservative:	Cool		
Condition:	Plastic container		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	0.23	0.20
Ethylbenzene	0.25	0.20
m,p-Xylenes	0.63	0.40
o-Xylene	ND	0.20

Total BTEX	**1.11**

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	90	88 - 110%
Bromofluorobenzene	93	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

Purgeable Aromatics

Matrix Spike Analysis

Lab ID:	2099Spk	Report Date:	12/11/95
Sample Matrix:	Water	Date Sampled:	12/05/95
Preservative:	Cool, HgCl2	Date Received:	12/06/95
Condition:	Intact	Date Analyzed:	12/10/95

Target Analyte	Spike Added (ug/L)	Original Conc. (ug/L)	Spiked Sample Conc. (ug/L)	% Recovery	Acceptance Limits (%)
Benzene	10	2.43	12.2	98%	39 -150
Toluene	10	0.39	10.0	96%	46 - 148
Ethylbenzene	10	2.01	11.4	94%	32 - 160
m,p-Xylenes	20	4.44	24.1	98%	NE
o-Xylene	10	0.53	10.5	99%	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Spike acceptance range not established by the EPA.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	99	88 - 110%
Bromofluorobenzene	101	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

VOLATILE AROMATIC HYDROCARBONS

Matrix Spike Duplicate Analysis

Lab ID:	2099Spkdup	Report Date:	12/11/95
Sample Matrix:	Water	Date Sampled:	12/05/95
Preservative:	Cool, HgCl2	Date Received:	12/06/95
Condition:	Intact	Date Analyzed:	12/10/95

Target Analyte	Spike Added (ug/L)	Sample Spike Recovery (%)	Duplicate Spike Recovery (%)	Acceptance Limits (%)
Benzene	10	98%	95%	78 - 115
Toluene	10	96%	94%	77 - 113
Ethylbenzene	10	94%	92%	60 - 111
m,p-Xylenes	20	98%	96%	NE
o-Xylene	10	99%	96%	NE

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.
NE - Spike acceptance range not established by the EPA.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	97	88 - 110%
Bromofluorobenzene	100	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments: Calculation of spike recovery requires consideration of a sample dilution factor

Analyst

Review

PURGEABLE AROMATICS

Quality Control Report

Method Blank Analysis

Sample Matrix:	Water	Report Date:	12/11/95
Lab ID:	MB35043	Date Analyzed:	12/10/95

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.20
Toluene	ND	0.20
Ethylbenzene	ND	0.20
m,p-Xylenes	ND	0.40
o-Xylene	ND	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	98	88 - 110%
Bromofluorobenzene	86	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

Page _____ of _____

PROJECT MANAGER:
Analytica Lab I.D.:

Company: Whole Earth
Address: 3230 E. Main St #141
Farmington, NM 87402
Phone: 320-3432
Fax:

Bill To: Mobil E&P USA, Inc
Company: P.O. Box 185
Address: Bloomfield, NM 87413

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2– / NO3– / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):	COMMENTS
B-77 Sep. Pit	12/7	4:00pm					X																						

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name:	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via:	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature: [signature] Date: 12/7/95	Signature: [signature] Date: 12/8/95	Signature: Date:
Company: Whole Earth Time: 4:00pm	Company: Whole Earth Time: 8:30am	Company: Time:
Received By:	**Received By:**	**Received By:**
Signature: Date:	Signature: Date:	Signature: [signature] Date:
Company: Time:	Company: Time:	Company: ANALYTICA Time: 8:30

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client