

District III
1000 Rio Brazos Rd
Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

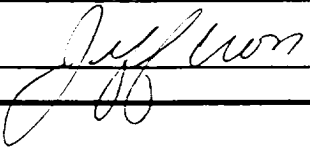
OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

OK

PIT REMEDIATION AND CLOSURE REPORT

Operator: APACHE CORPORATION		Telephone: 505-325-0318									
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401											
Facility or Well Name:		STATE COM CC # 1 PIT #1									
Location: Unit or Qtr/Qtr Sec	NW/SE	Sec 26	T 24N R 1W County Rio Arriba								
Pit Type: Separator: _____	Dehydrator: _____	Other: _____	SEPERATOR/TANK DRAIN								
Land Type: FEE											
<table border="1"><tr><td>Pit Dimensions: Beg.</td><td>Length 15'</td><td>Width 15'</td><td>Depth 6'</td></tr><tr><td>Pit Location: End.</td><td>Length 20'</td><td>Width 20'</td><td>Depth 15'</td></tr></table>				Pit Dimensions: Beg.	Length 15'	Width 15'	Depth 6'	Pit Location: End.	Length 20'	Width 20'	Depth 15'
Pit Dimensions: Beg.	Length 15'	Width 15'	Depth 6'								
Pit Location: End.	Length 20'	Width 20'	Depth 15'								
(Attach diagram)											
Reference:	Wellhead XX	Other: _____									
Footage from reference:		120'									
Direction from reference:		30 Degrees	East North XX of West South								
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)											
Less than 50 feet		(20 points)	_____								
50 feet to 99 feet		(10 points)	_____								
Greater than 100 feet		(0 points)	0								
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)	10								
Greater than 1000 feet		(0 points)	0								
RANKING SCORE (TOTAL POINTS)			10								

Date Remediation Started:		<u>04/22/1997</u>		Date Completed:		<u>08/17/1999</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XX</u>		Approx. cubic yards		<u>133</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
General Description of Remedial Action:							
<u>EXCAVATE PIT TO 15', TOOK PID READINGS. SPREAD SOIL ON LOCATION,</u>							
<u>TREAT SOIL WITH FERTILIZER, WATER AND TILL SOIL. TOOK SOIL SAMPLES.</u>							
Groundwater Encountered: No <u>X</u> Yes _____ Depth _____							
Final Pit: Sample location <u>5 point composite taken from pit sidewalls, and pit bottom center.</u>							
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)							
Sample depth		<u>15'</u>					
Sample Date		<u>04/24/1997</u>		Sample Time		<u>12:30pm</u>	
Sample results							
Benzene		(ppm)		<u>ND</u>			
Total BTEX		(ppm)		<u>3</u>			
Field Headspace		(ppm)		<u>20</u>			
TPH				<u>380</u>			
Groundwater Sample: Yes _____ No <u>X</u> (If yes attach sample results)							
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.							
DATE		<u>20-Oct-99</u>		PRINTED NAME		<u>Jeff Cross</u>	
SIGNATURE				AND TITLE		<u>Project Manager</u>	

District III
1000 Rio Brazos Rd
Aztec, NM 87410

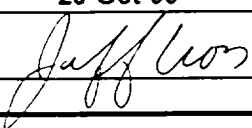
State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>APACHE CORPORATION</u>		Telephone: <u>505-325-0318</u>									
Address: <u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>											
Facility or Well Name:		<u>STATE COM CC # 1 PIT #2</u>									
Location: Unit or Qtr/Qtr Sec	<u>NW/SE</u>	<u>Sec 26</u>	<u>T 24N R 1W</u> County <u>Rio Arriba</u>								
Pit Type: Separator:	<u> </u>	Dehydrator <u> </u>	Other <u>COMPRESSOR</u>								
Land Type:	<u>FEE</u>										
<table border="1"><tr><td>Pit Dimensions: Beg.</td><td>Length <u>15'</u></td><td>Width <u>15'</u></td><td>Depth <u>3'</u></td></tr><tr><td>Pit Location: End.</td><td>Length <u>20'</u></td><td>Width <u>20'</u></td><td>Depth <u>15'</u></td></tr></table> (Attach diagram) Reference: Wellhead <u>XX</u> Other <u> </u> Footage from reference: <u>120'</u> Direction from reference: <u>300</u> Degrees <u> </u> East North <u> </u> <u>XX</u> West of South <u> </u>				Pit Dimensions: Beg.	Length <u>15'</u>	Width <u>15'</u>	Depth <u>3'</u>	Pit Location: End.	Length <u>20'</u>	Width <u>20'</u>	Depth <u>15'</u>
Pit Dimensions: Beg.	Length <u>15'</u>	Width <u>15'</u>	Depth <u>3'</u>								
Pit Location: End.	Length <u>20'</u>	Width <u>20'</u>	Depth <u>15'</u>								
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)		Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) <u> </u> (10 points) <u> </u> (0 points) <u>0</u>								
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)		Yes No	(20 points) <u> </u> (0 points) <u>0</u>								
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) <u> </u> (10 points) <u>10</u> (0 points) <u>0</u>								
		RANKING SCORE (TOTAL POINTS) <u>10</u>									

Date Remediation Started: <u>04/23/1997</u>		Date Completed: <u>08/17/1999</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>XX</u>	Approx. cubic yards <u>178</u>
	Landfarmed	<u>XX</u>	Insitu Bioremediation _____
	Other	_____	
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>	Offsite _____
General Description of Remedial Action: _____			
<u>EXCAVATE PIT TO 15', TOOK PID READINGS. SPREAD SOIL ON LOCATION,</u>			
<u>TREAT SOIL WITH FERTILIZER, WATER AND TILL SOIL. TOOK SOIL SAMPLES.</u>			
<u>PIT 2 TPH LEVELS WERE HIGH ON 4/24/97 SOIL SAMPLES, EXCAVATE PIT 2 TO 20' ON SIDEWALLS AND 15' DEEP AND RESAMPLED ON 9/26/97. TEST RESULTS WERE GOOD.</u>			
Groundwater Encountered: No <u>X</u> Yes _____ Depth _____			
Final Pit:	Sample location <u>5 point composite taken from pit sidewalls, and pit bottom center.</u>		
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)			
	Sample depth	<u>15'</u>	
	Sample Date	<u>09/26/1997</u>	Sample Time <u>1:00PM</u>
	Sample results		
	Benzene (ppm)	<u>ND</u>	
	Total BTEX (ppm)	<u>ND</u>	
	Field Headspace (ppm)	<u>39.66</u>	
	TPH	<u>ND</u>	
Groundwater Sample: Yes _____ No <u>X</u> (If yes attach sample results)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.			
DATE <u>20-Oct-99</u>		PRINTED NAME <u>Jeff Cross</u>	
SIGNATURE <u></u>		AND TITLE <u>Project Manager</u>	

APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION STATE COM CC # 1

PIT COUNT 2

START		PIT #1 4/22/97			FINISH PIT #1 4/24/97				
DIMENSIONS		PIT #2 4/23/97			PIT #2 9/26/97				
	L	W	D		L	W	D	CU YDS	
Pit 1	15'	15'	6'	Pit 1	20'	20'	15'	133	
Pit 2	15'	15'	3'	Pit 2	20'	20'	15'	178	
Pit 3				Pit 3					
DATE:		Pit 1 @ 11'	Pit 2 @ 7'	Pit 3 @	Date:		Pit 1 @ 15'	Pit 2 @ 15'	Pit 3 @
P I D	Center	220	2500+		P I D	Center	20	50.5	
	NW Corner	275	2500+			NW Corner	21	45.6	
	NE Corner	149	2500+			NE Corner	19	36.1	
	SW Corner	138	2500+			SW Corner	20	30.5	
	SE Corner	200	2500+			SE Corner	20	35.6	

NOTES:

4/22/97 START EXCAVATION ON PIT # 1 LIGHT STAINING , STRONG ODOR @ 11'

4/23/97 EXCAVATE PIT # 1 TO 15' NO STAINING OR ODOR, EXCAVATE PIT SIDEWALLS.

4/24/97 SAMPLE PIT# 1.

4/23/97 START EXCAVATION ON PIT # 2 HEAVY STAINING AND ODOR @ 7' PID READING OVER 2500

4/23/97 CONTINUE EXCAVATION ON PIT 2 TO 12' LIGHT STAINING AND NO ODOR.

4/24/97 EXCAVATE PIT 2 SIDEWALLS , TOOK SOIL SAMPLES.

PIT #2 SOIL SAMPLE WERE TOO HIGH (TPH 13000, BETEX WAS 0)

9/26/97 EXCAVATE PIT # 2 TO 15' AND PIT SIDEWALLS OUT TO 20'

NO STAINING OR ODOR, PID READINGS WERE GOOD, TOOK SOIL SAMPLES.

DATE		4/24/97	4/24/97	SOIL SAMPLING					
		Pit 1 @ 15'	Pit 2 @ 12'	Pit 3 @	ANALYSIS RESULTS			PER LAB	Assaigai
P I D	Center	20	122		PIT	TPH	BETEX	WITNESS	DATE
	NW Corner	21	135		NO	SIDE\BTM	SIDE\BTM		
	NE Corner	19	104		1	380	3	J.C.	4/24/97
	SW Corner	20	127		2	13000	ND	J.C.	4/24/97
	SE Corner	20	138		3				

RE-SAMPLE

DATE:		9/26/97	Pit 1 @	Pit 2 @ 15'	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center		50.5		PIT	TPH	BETEX	WITNESS	DATE	
	NW Corner		45.6		NO	SIDE\BTM	SIDE\BTM			
	NE Corner		36.1		1	ND/ND	ND/ND	J.C.	9/26/97	
	SW Corner		30.5		2					
	SE Corner		35.6		3					

RE-SAMPLE

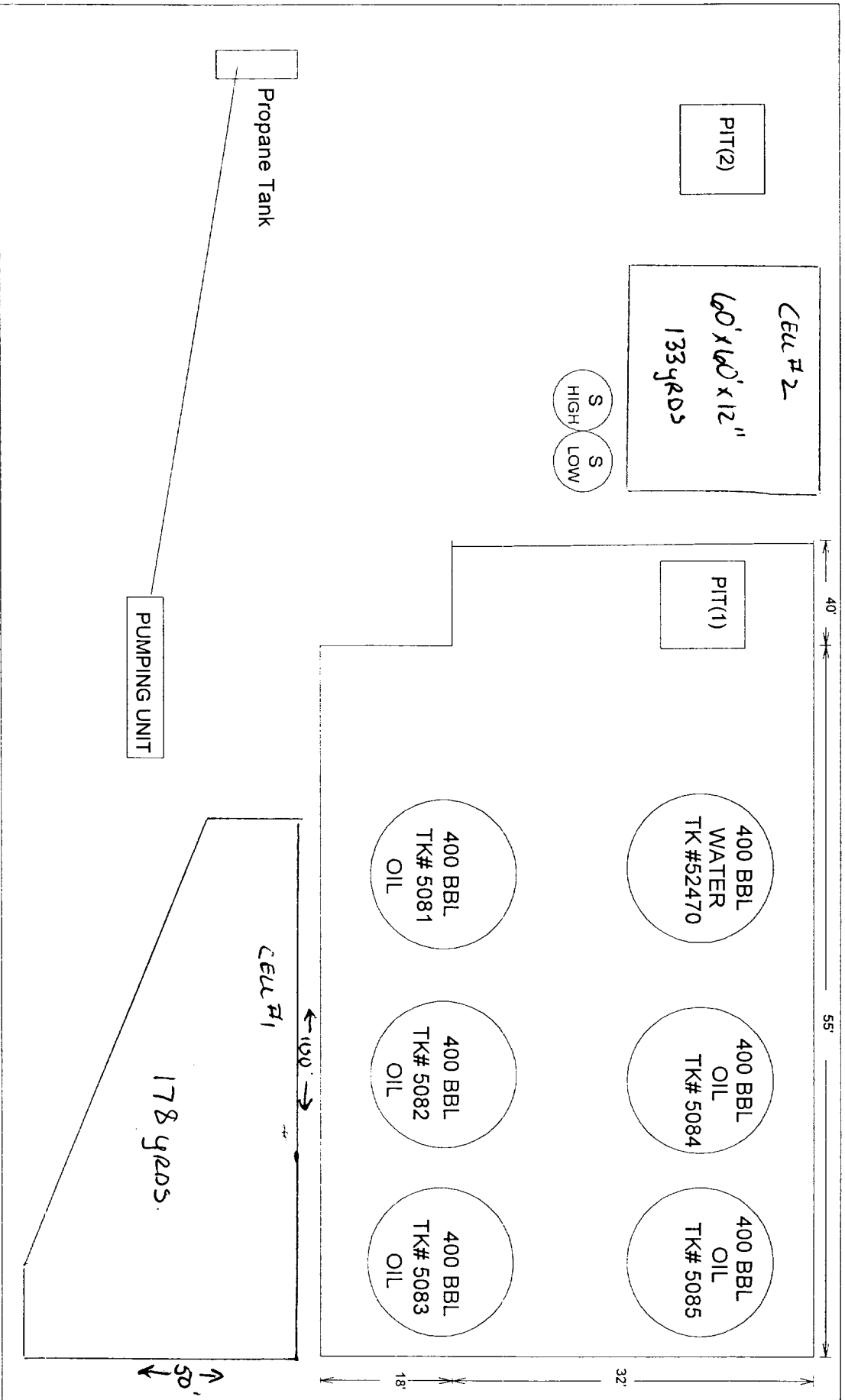
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P I D	Center				PIT	TPH	BETEX	WITNESS	DATE
	NW Corner				NO	SIDE\BTM	SIDE\BTM		
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

NORTH

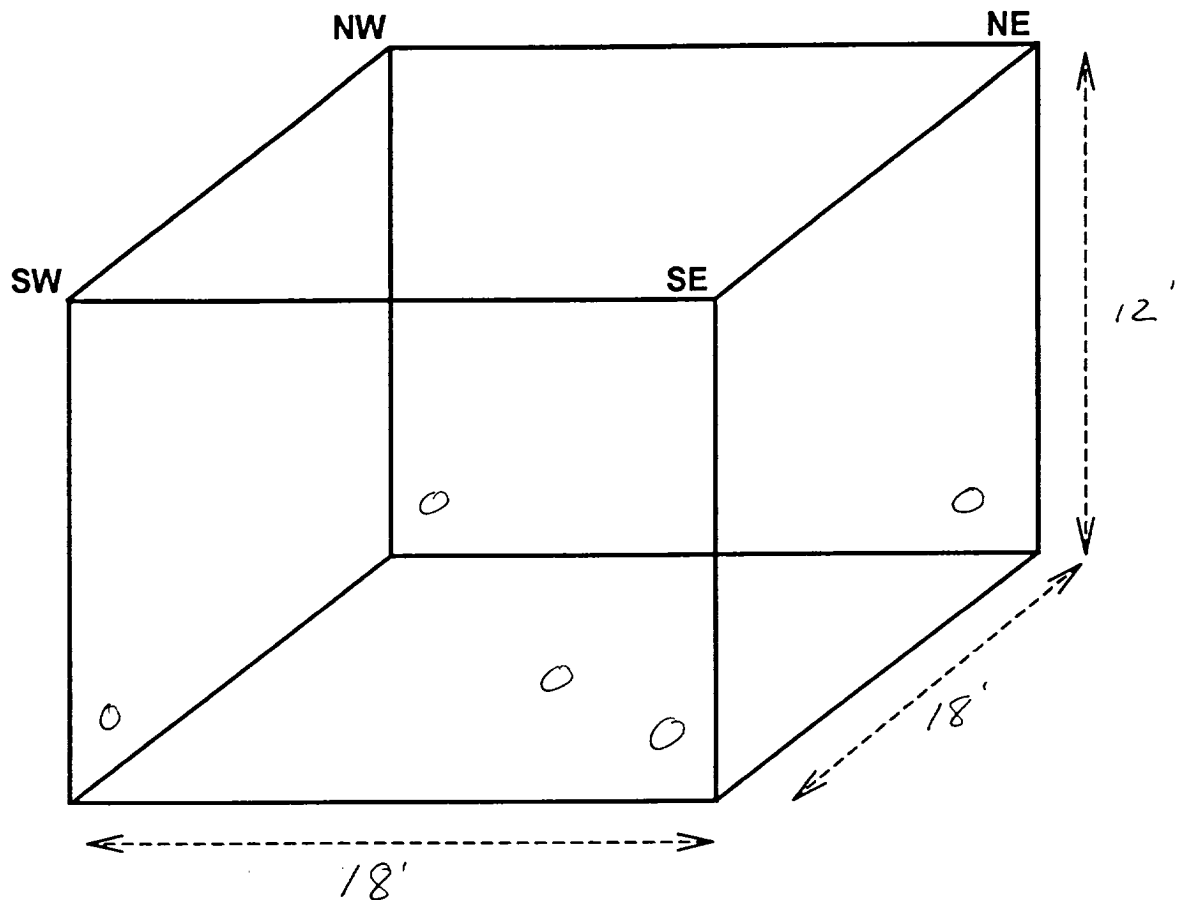
GENERAL DRAINAGE

TANK FIRE WALL IS 4' WIDE AT THE BASE, 1' WIDE AT THE TOP, AND 3' HIGH

APACHE CORPORATION
STATE COM CC NUMBER 1
NW/4 SE/4 Lease #NMINM68539
SECTION 26, TOWNSHIP 24N, RANGE 1W
RIO ARriba COUNTY, NM
Revised 6/3/97



[illegible]



○ = SAMPLE AREA

WELL NAME STATE COM CC # 1 PIT # 2

SAMPLE DATE 4/24/97

NOTES 5 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT

SIDEWALL , AND PIT BOTTOM CENTER.

RE-EXCAVATED PIT 9/26/97

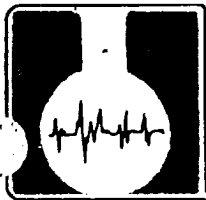
RE-SAMPLED PIT. 9/26/97



NOTES

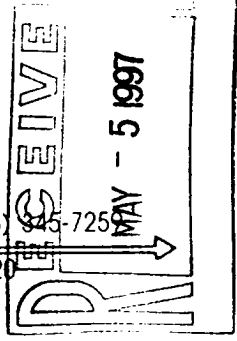
5 POINT COMPOSITE SAMPLE TAKEN 8" TO 10" INTO PIT
SIDEWALL , AND PIT BOTTOM CENTER.

RE-SAMPLED PIT.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7250
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820



Report Generated:
May 1, 1997 13:46

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9704266
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 04/24/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9704266-01A
Sample ID: STATE CC PIT 1

Collected: 04/24/97 12:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	1250	04/29/97	SBTXME157
Toluene	ND	mg/Kg	0.0010	1250	04/29/97	SBTXME157
Ethylbenzene	ND	mg/Kg	0.0010	1250	04/29/97	SBTXME157
P-&m-Xylene	3.0	mg/Kg	0.0020	1250	04/29/97	SBTXME157
O-Xylene	ND	mg/Kg	0.0010	1250	04/29/97	SBTXME157

Lab ID: 9704266-01B
Sample ID: STATE CC PIT 1

Collected: 04/24/97 12:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	380	mg/Kg	50	25	04/28/97	SDRO024

Lab ID: 9704266-02A
Sample ID: STATE CC PIT 2

Collected: 04/24/97 11:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	*	04/30/97	SBTXME157
Toluene	ND	mg/Kg	0.0010	*	04/30/97	SBTXME157
Ethylbenzene	ND	mg/Kg	0.0010	*	04/30/97	SBTXME157
P-&m-Xylene	ND	mg/Kg	0.0020	*	04/30/97	SBTXME157
O-Xylene	ND	mg/Kg	0.0010	*	04/30/97	SBTXME157



Lab ID: 9704266-02B
Sample ID: STATE CC PIT 2

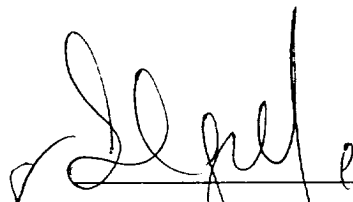
Collected: 04/24/97 11:45:00
Matrix: SOIL

Page 2

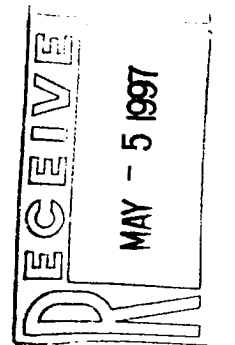
RECEIVED

MAY - 5 1997

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	13000	mg/Kg	50	100	04/28/97	SDR0024



William P. Biava
President



WORKORDER COMMENTS

DATE : 05/01/97
WORKORDER: 9704266

DEFINITIONS/DATA QUALIFIERS

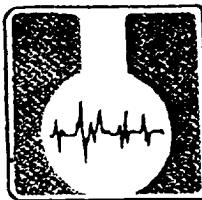
The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

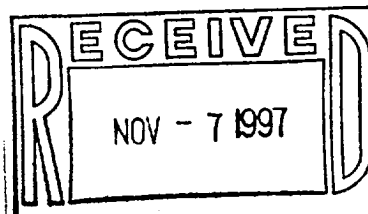
*Please Note: The dilution factor for Fraction 02A is 100000.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

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Report Generated:
October 10, 1997 15:25

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 2855 SOUTHSIDE RIVER RD STE
FARMINGTON, NM 87401-7947

WORKORDER # : 9710020
AWORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 10/02/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9710020-02A
Sample ID: FED STATE CC PIT #2 SIDES

Collected: 09/26/97 13:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	10/03/97	SBTXME189
Toluene	ND	mg/kg	0.0050	100	10/03/97	SBTXME189
Ethylbenzene	ND	mg/kg	0.0050	100	10/03/97	SBTXME189
P-&m-Xylene	ND	mg/kg	0.010	100	10/03/97	SBTXME189
O-Xylene	ND	mg/kg	0.0050	100	10/03/97	SBTXME189

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM



Lab ID: 9710020-02B
Sample ID: FED STATE CC PIT #2 SIDES

Collected: 09/26/97 13:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	10/06/97	SDRO057

Lab ID: 9710020-03A
Sample ID: FED STATE CC PIT #2 BOTTOM

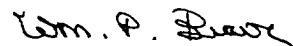
Collected: 09/26/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	500	10/08/97	SBTXME190
Toluene	ND	mg/kg	0.0050	500	10/08/97	SBTXME190
Ethylbenzene	ND	mg/kg	0.0050	500	10/08/97	SBTXME190
P-&m-Xylene	ND	mg/kg	0.010	500	10/08/97	SBTXME190
O-Xylene	ND	mg/kg	0.0050	500	10/08/97	SBTXME190

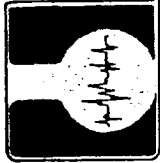
Lab ID: 9710020-03B
Sample ID: FED STATE CC PIT #2 BOTTOM

Collected: 09/26/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	10/06/97	SDRO057



William P. Biava
President



Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG
MIDLAND, TEXAS 79701
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

Address 304 N. Behrend

City / State / Zip Farmington N.M.

Project Name / Number P.T Remediation

Contract / Purchase Order / Quote _____

Project Manager / Contact JEFF CROSS

Telephone No. 505-774-6643

Fax No. 505-774-6624

Samplers: (Signature) Jeff Cross

Lab Job no.: 4366 Date: 4/24/97 Page: 1 of 1

Field Sample Number / Location

Date

Time

Sample Type

Type / Size of Container

Preservation Temp

Chemical

STATE CC p.t. 1 4-24-97 12:30 501 402 vial glass ICE

STATE CC p.t. 1 4-24-97 12:30 501 402 glass ICE

STATE CC p.t. 2 4-24-97 11:45 501 402 vial glass ICE

STATE CC p.t. 2 4-24-97 11:45 501 402 glass ICE

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STATE CC p.t. 2 4-24-97 11:45 501 402 glass ICE

STATE CC p.t. 2 4-24-97 11:45 501 402 glass ICE

Relinquished by: Signature Jeff Cross
Printed JEFF CROSS
Company Apache Corp.
Reason _____

Date 4/24/97
Time 2:05

Received by: Signature Edna G. Chavez
Printed Edna G. Chavez
Company AAI
Reason _____

Relinquished by: Signature Scott Pratt
Printed SCOTT PRATT
Company AAI
Reason _____

Date 24 APR 97
Time 1730

Received by: Signature Scott Pratt
Printed SCOTT PRATT
Company AAI
Reason _____

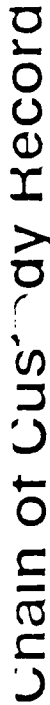
Method of Shipment: _____
Shipment No. _____
Special Instructions: _____

Comments: _____

After analysis, samples are to be:
☐ Disposed of (additional fee)
☐ Stored (30 days max)
☐ Stored over 30 days (additional fee)
☐ Returned to customer

COURIER

RECEIVED
MAY - 5 1997



Lab job no.: 10020 Date: 10-3-97

ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

MELQUIADES ALANIS
6411 LOCAL UNO

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

~~Project Manager / Contact Jeff Cross~~

Address 304 N. Behrend

Telephone No. (505) 774-6643

City / State / Zip Farmington, NM 87401

Fax No. (505) 774-6624

Project Name / Number JICARILLA PIT CLOSURES

Samplers: (Signature)

Contract / Purchase Order / Quote

ALL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation	
						Temp.	Chemical
1A	Fed State CC P. #1	9-26-97	10:00	soil	402 glass		IRG
1B	" "	"	"	"	"		"
2A	Fed State CC P. #2 side	9-26-97	1:00	"	"		"
2B	" "	"	"	"	"		"
3A	Fed State CC P. #2 Bottom	"	1:30	"	"		"
3B	" "	"	"	"	"		"

Relinquished by:	Received by:	Date	Relinquished by:
Signature <u>Jeff Cunn</u>	Signature <u>Scott Pratt</u>	10-2-97	Signature <u>Scott Pratt</u>
Printed <u>JEFF CUNN</u>	Printed <u>SCOTT PRATT</u>	Time	Printed
Company <u>Apache Corp.</u>	Company <u>AAL</u>	2:42	Company
Reason	Reason		Reason

Received by: Scott Pratt
Signature Scott Pratt
Printed SCOTT PRATT
Company AAL
Reason _____

Date	Time
------	------

Received by: _____
Signature _____
Printed _____
Company _____
Reason _____

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

☐ Disposed of (additional fee)☐ (NEW STEP 01) Pools☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY

WORKORDER COMMENTS

DATE : 10/10/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

WELL NAME:

STATE COM CC #1 CELL #1

SAMPLE DATE:

08/17/1999

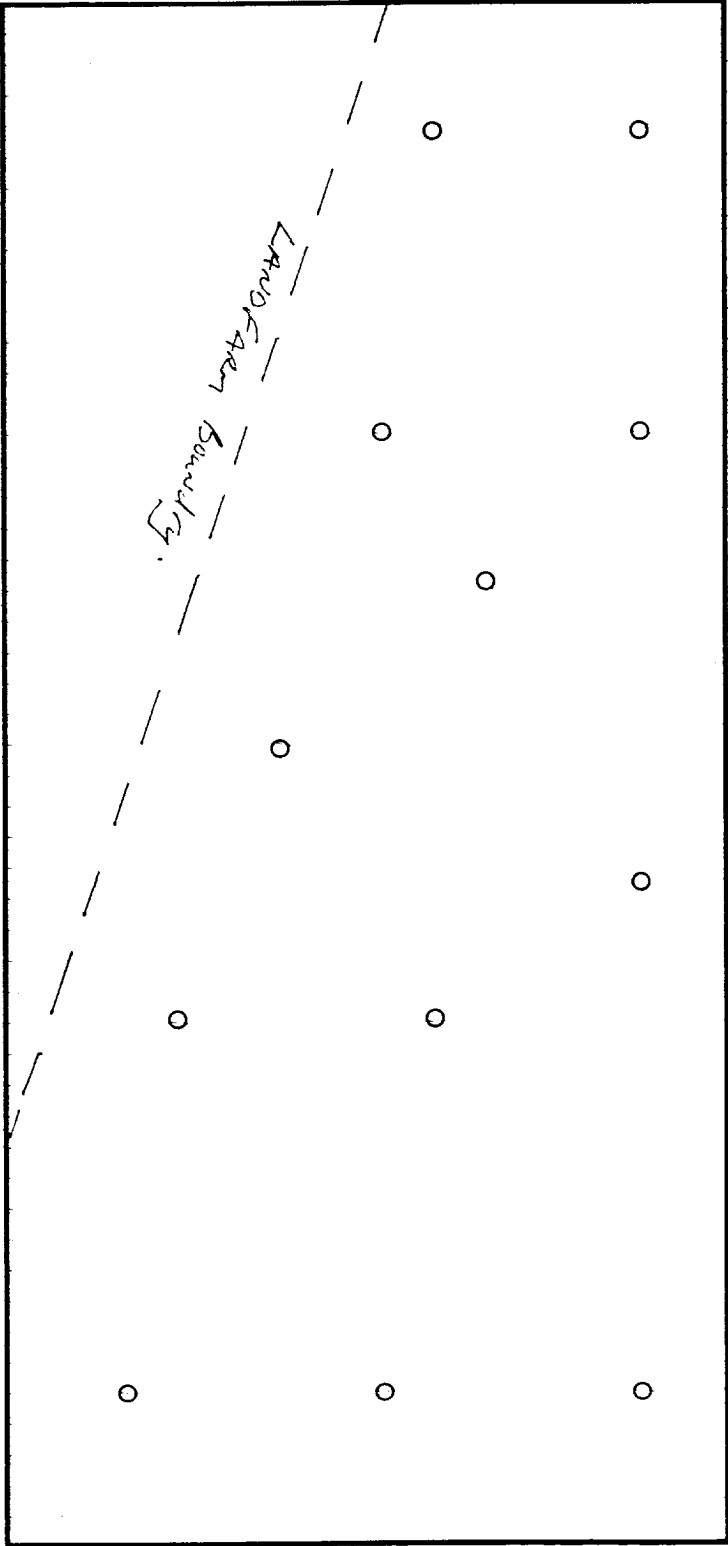
DIMENSIONS:

100' X 50' X 12"

178 YRDS.



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

12 POINT COMPOSITE SAMPLE

WELL NAME:

STATE COM CC #1 CELL #2

SAMPLE DATE:

08/17/1999

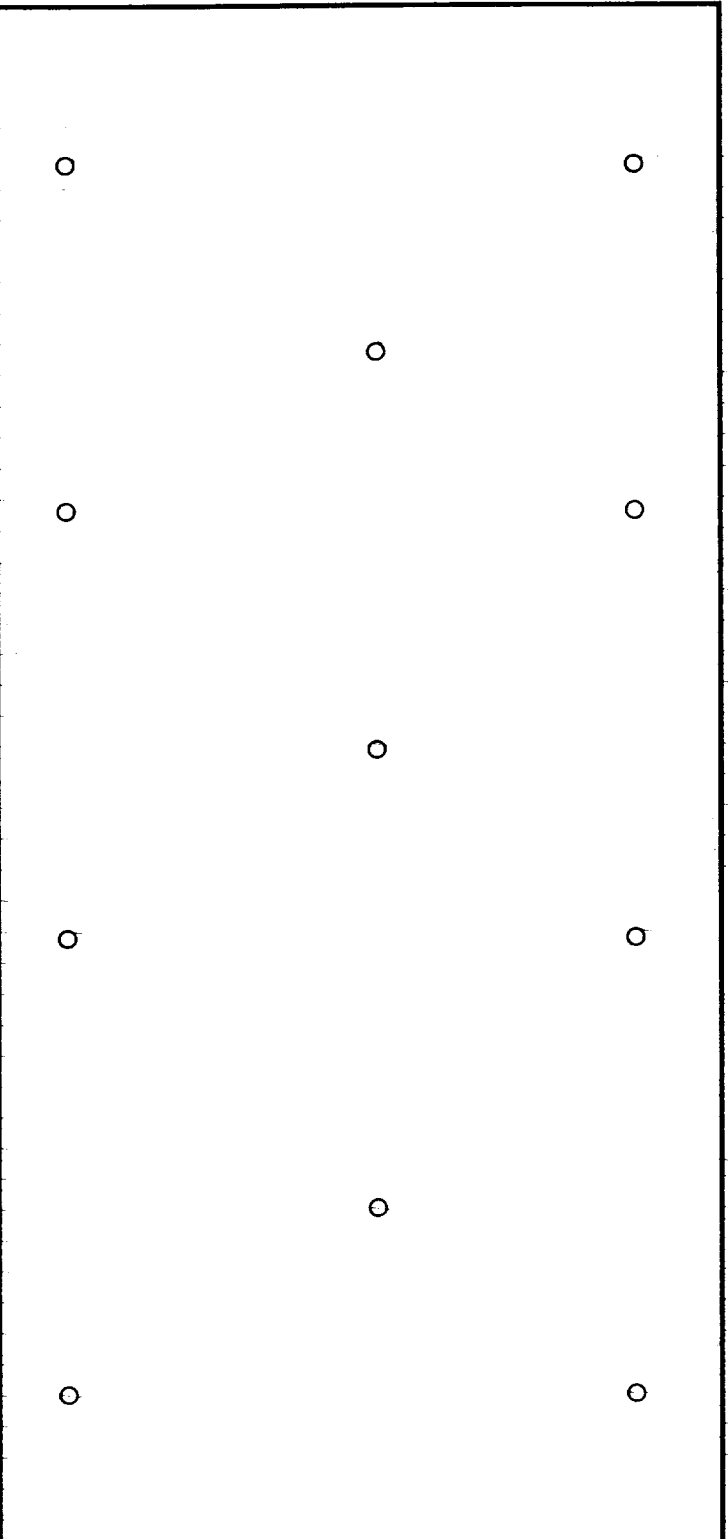
DIMENSIONS:

60' X 60' X 12"

133YRDS.



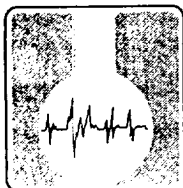
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

11 POINT COMPOSITE SAMPLE



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820
127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

APACHE CORPORATION
attn: JEFF CROSS
2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: APACHE CORPORATION
Project: 9908200 JICARILLA PIT CLOSURES

Karen Galster
William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID: **CELL#1 1A** Sample Matrix: **SOIL** Sample Collected: **08/17/99 10:30:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9908200-01A		SW846 5030A/8020A	Purgeable Aromatics						
X99273	XG.1999.727-23	71-43-2	Benzene	ND	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.727-23	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.727-23	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.727-23		p/m Xylenes	ND	mg / Kg	1	0.01		08/25/99
X99273	XG.1999.727-23	108-88-3	Toluene	ND	mg / Kg	1	0.005		08/25/99

Client Sample ID: **CELL#1 1B** Sample Matrix: **SOIL** Sample Collected: **08/17/99 10:30:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9908200-02A		SW846 ME/8015A	Diesel Range Organics by GC/FID						
X99270	XG.1999.749-2		Diesel Range Organics	1000	mg / Kg	1	25	1	08/30/99



Assaigal Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9908200 JICARILLA PIT CLOSURES**

Client Sample ID **CELL#2 2A** Sample Matrix **SOIL** Sample Collected **08/17/99 11:00:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9908200-03A		SW846 5030A/8020A Purgeable Aromatics							
X99273	XG.1999.736-1	71-43-2	Benzene	0.012	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.736-1	100-41-4	Ethylbenzene	0.009	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.736-1	95-47-6	o-Xylene	0.013	mg / Kg	1	0.005		08/25/99
X99273	XG.1999.736-1		p/m Xylenes	0.034	mg / Kg	1	0.01		08/25/99
X99273	XG.1999.736-1	108-88-3	Toluene	0.045	mg / Kg	1	0.005		08/25/99

Client Sample ID **CELL#2 2B** Sample Matrix **SOIL** Sample Collected **08/17/99 11:00:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9908200-04A		SW846 ME/8015A Diesel Range Organics by GC/FID							
X99270	XG.1999.749-3		Diesel Range Organics	57	mg / Kg	1	25		08/30/99

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***

*** ND = Not detected; less than the sample specific Detection Limit. Results relate only to the items tested. ***

footnote 1 The surrogate recovery was outside of QC criteria suggesting matrix interference problems.

