District ! 1625 N French Dr , Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

For drilling and production facilities, submit to appropriate NMOCD District Office
For downstream facilities, submit to Santa Fe

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 June 1, 2004

Pit or Bel	<u>.ow-Grade</u>	e Tank I	Registra	<u>tion o</u>	r Closure
Is pit or below	/-grade tank c	overed by	a "general	plan"?	Yes 🔀 No 🗌

Type of action: Registration of a pit	or below-grade tank 🔲 Closure of a pit or below-g	grade tank 🔀
Operator BP America Production Company Telepho	ne. <u>(505)326-9200</u> e-mail address:	
Address 200 Energy Ct, Farmington, NM 87401		
Facility or well name ELLIST, A.L. GC F # 1 API #:3	0045 26399 U/L or Qtr/Qtr _ T	F Sec 14 T Z9 NR 9 W
	Longitude	
Surface Owner Federal 🔀 State 🗌 Private 🔲 Indian 🗍		·
Pit	Below-grade tank	
Type Drilling Production X Disposal	Volume:bbl Type of fluid: /	
Workover	Construction material	$ \bigwedge$
Lined 🔀 Unlined 🗌	Double-walled, with leak detection? Yes 1 If	no, explain why not
Liner type Synthetic Thickness mil Clay	/ V	/
Pit Volumebbl	/ /	\
	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water)	100 feet or more	(0 points)
	Yes	(20 points)
Wellhead protection area (Less than 200 feet from a private domestic	No	(0 points)
water source, or less than 1000 feet from all other water sources.)		
Distance to surface water (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses)	200 feet or more, but less than 1000 feet	(10 points)
, and spinors are spinors and spinors and spinors and spinors are spinors and spinors and spinors are spinors and spinors and spinors and spinors are spinors and spinors and spinors and spinors are spinors and spinors are spinors and spinors and spinors are spinors and spinors are	1000 feet or more	(0 points)
	Ranking Score (Total Points)	0
If this is a pit closure: (1) Attach a diagram of the facility showing the pit	's relationship to other equipment and tanks (2) Inc	dicate disposal location (check the onsite box if
your are burying in place) onsite \(\subseteq \) offsite \(\subseteq \) If offsite, name of facility_		
remediation start date and end date (4) Groundwater encountered: No		
(5) Attach soil sample results and a diagram of sample locations and excava		
Additional Comments		
See Attached Documentation		
See Attached Bodamentation		
		RCVD JUN13'07
		OIL CONS. DIV.
I hereby certify that the information above is true and complete to the best	of my knowledge and belief. I further certify the	UISI. J
has been/will be constructed or closed according to NMOCD guidelin	es 🔀, a general permit 🔲, or an (attached) alter	native OCD-approved plan .
	1	
Date11/01/2005	ture Jeffy C. Slig	
!		/
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations	not relieve the opera@ of liability should the conte the operator of its responsibility for compliance wit	nts of the pit or tank contaminate ground water or h any other federal, state, or local laws and/or
Approval Deputy Oil & Gas Inspector, Printed Name/Title District #3	Signature B. J. F. M.	AUG 1 0 2007

CLIENT: BP	P.O. BOX	87, BLO	NEERING, OMFIELD, 332-1199	NM 874	13		0 <u>80828</u>
FIELD REPOF	RT: CLO	SURE	VERIF:	[CATIO]			/ of /
LOCATION. NAME ELLIOT	AL GC F	WELL #	/ PIT. S	EP.			11/16/01
QUAD/UNIT: F SEC: 14	MPS : TWT	RNG: 9W	PM: Nm CN	TY. JJ ST:N	\sim	FINISHED	
QTR/FOOTAGE: 1810/2/16	as'w selvin	CONTRACTO	R: FLINT		ENVI	RONMENTAL CIALIST	NV
EXCAVATION APPROX &	A_FT.x_25	1 FT x	<u> </u>	DEEP CU	BIC YA	RDAGE:	M
DISPOSAL FACILITY:	012-211E		REMEDIA	TION MET	HOD: _	CLOSE AS	5 15
LAND USE: RANGE - B	Lm	LEASE:	Nm 015P	3587	FORMAT	TION:	DK
FIELD NOTES & REMAR	≀KS: PIT LO	CATED APPR	ROXIMATELY		. 545	FROM	1 WELLHEAD
DEPTH TO GROUNDWATER: >10	o' NEAREST W	ATER SOURCE:	> 10001	_ NEAREST SUR	RFACE WA	TER	0001
NMOCD RANKING SCORE:					,	HECK DI	
SOIL AND EXCAVATIO			<u>54.2</u> ppm = /00 ppm				
DESCRIPTION:	TIME	9:10 am	pm DATE:	16/01	FIBE	RGLASS TA	ANK INSTALLED
SOIL TYPE: SAND/ SILTY : SOIL COLOR: 84		SILTY CLAY	/ CLAY / GR	AVEL / DTHE	R BEOR	ock (san	0510~E)
COHESION (ALL OTHERS): NO	DN COHESIVE				SHLY COH	HESIVE	
CONSISTENCY (NON COHESIVE					۸۶۲۱۲ ۷	uiche e	OLASTIC I
DENSITY (COHESIVE CLAYS						CLOSE	
MOISTURE DRY / SLIGHTLY DISCOLORATION/STAINING OB							
HC ODOR DETECTED YES /	NO EXPLANAT	ION - oun					UNLY
SAMPLE TYPE GRAB / COM ADDITIONAL COMMENTS: 7	IPOSITE - # OF	PTS	O THE EAST	(3') PRIVE	To SAN	TRINE.	COLLECTED
1 1	AMPLE DIRECT						
		FIE	LD 418.1 CA	LCULATIONS	·		
SCALE SAMP. TIM	ME SAMPLE I.D.	LAB No:	WEIGHT (g)	nL. FREON [DILUTION	READING	CALC ppm
							
0 FT DIDIM	- A						
PIT PERIM	ETER 🗛	0.7	JM.	P	T PF	ROFILE	3
PIT PERIM	·	O' RESI	VM JLTS	Pì	T PF	ROFILE	2
PIT PERIM	ame ²	RESU SAMPLE ID	JLTS FIELD HEADSPACE PID (ppm)	P)	T PF	ROFILE	5
PIT PERIM	a Route	REST SAMPLE	JLTS FIELD HEADSPACE	P	T PF	ROFILE	<u> </u>
PIT PERIM	٠	RESU SAMPLE ID 1 @ 3'	JLTS FIELD HEADSPACE PID (ppm)	P	T PF	ROFILE	7
PIT PERIMI	FORMER FANK LOCATION	REST SAMPLE 10 3' 20 30	JLTS FIELD HEADSPACE PID (ppm)				
PIT PERIMI	FORMER FANK FANK LOCATION LOCA	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @	JLTS FIELD HEADSPACE PID (ppm)			ROFILE	
PIT PERIMI	FORMER FANK LOCATION	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @	JLTS FIELD HEADSPACE PID (ppm)				
PIT PERIMI	FORMER FANK FANK LOCATION LOCA	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @	JLTS FIELD HEADSPACE PID (ppm)				
PIT PERIMI 31 × 24 × 2 10 me 10 me 24	FORMER FORMER FORMER FORMER FORMER PROX 2' B.G.	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @ 5 @ 5 @	JLTS FIELD HEADSPACE PID (ppm) 52.8				
PIT PERIMI 31 × 24 × Z 10 me HERD	FORMER FANK FANK LOCATION LOCA	REST SAMPLE 10 1 @ 3 1 2 @ 3 3 @ 4 @ 5 5 @ 5 LAB SAMPLE ANA SAMPLE ANA	JLTS FIELD HEADSPACE PID (ppm) 52.8				
PIT PERIMI 31 × 24 × Z 10 me HEND 24 To the second se	FORMER FORMER FORMER FORMER FORMER PROX 2' B.G.	REST SAMPLE 1 @ 3 ' 2 @ 3 @ 4 @ 5 @ 5 @ LAB SA SAMPLE ID ANA D @ 3 ' TPH	JLTS FIELD HEADSPACE PID (sppm) 52.8 AMPLES LYSIS TIME				
PIT PERIMI 31 × 24 × Z 10 me HERD FERENT FERENT FERENT P.D.	PORMER TANK DEATION P.D. 2' APPROX 2' B.G.	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @ 5 @ LAB SA SAMPLE 10 LOG 3' TPH 4 BTEX	JLTS FIELD HEADSPACE PID (ppm) 528 AMPLES LYSIS TIME (8015) 0735				
PIT PERIMI 31 × 24 × Z 10 me 10 me 11 mppox	P.D. 2' RPPROX 2' B.G.	REST SAMPLE 10 1 @ 3' 2 @ 3 @ 4 @ 5 @ LAB SA SAMPLE ANA D@ 3' TPH "" BTG> BOTTH F	JLTS FIELD HEADSPACE PID (ppm) 528 AMPLES LYSIS TIME (8015) 0735 (68021) "	/\\>	T APP		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 3'	Date Reported:	11-21-01
Laboratory Number:	21535	Date Sampled:	11-19-01
Chain of Custody No:	8793	Date Received:	11-19-01
Sample Matrix:	Soil	Date Extracted:	11-20-01
Preservative:	Cool	Date Analyzed:	11-21-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	974	0.2
Diesel Range (C10 - C28)	154	0.1
Total Petroleum Hydrocarbons	1,130	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Elliott, A. L. GC F #1 Separator Pit Grab Sample.

Analyst C. Cofue

Mister M Walker Review



Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 3'	Date Reported:	11-21-01
Laboratory Number:	21535	Date Sampled:	11-19-01
Chain of Custody:	8793	Date Received:	11-19-01
Sample Matrix:	Soil	Date Analyzed:	11-21-01
Preservative:	Cool	Date Extracted:	11-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	555	1.8	
Toluene	1,640	1.7	
Ethylbenzene	938	1.5	
p,m-Xylene	1,840	2.2	
o-Xylene	2,050	1.0	
Total BTEX	7,020		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Elliott, A. L. GC F #1 Separator Pit Grab Sample.

Alem C. Ceferras

Phrotie m Walter

BLAGG ENGINEERING, INC. ВP B0828 LOCATION NO CLIENT P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C NO. 14681 (505) 632-1199 FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION 12/28/06 DATE STARTED LOCATION: NAME CLLIDIT, A.L. G.C. F WELL#: 1 PITS' -DATE FINISHED QUAD/UNIT. F SEC: 14 TWP: 292 RNG: 9W PM: 2m CNTY: ST ST: 2m ENVIRONMENTAL NV SPECIALIST: QTR/FOOTAGE SEINW CONTRACTOR: 63 SOIL REMEDIATION: REMEDIATION SYSTEM: LANDEARY APPROX. CUBIC YARDAGE: NIA RANGE - Bum LAND USE: LIFT DEPTH (ft): DEPTH TO GROUNDWATER: >/00' NEAREST SURFACE WATER >/, 000 FIELD NOTES & REMARKS: >1,000' NEAREST WATER SOURCE 0 NMOCD TPH CLOSURE STD. 5000 PPM NMOCD RANKING SCORE SOIL TYPE SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER DK. YELL ORANGE TO MOD BROWN COHESION (ALL OTHERS): (NON COHESIVE) SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE (FIRM DENSE / VERY DENSE PLASTICITY (CLAYS)- NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE DRY/SLIGHTLY MOIST / WET / SATURATED / SUPER SATURATED CLOSED DISCOLORATION/STAINING OBSERVED. YES NO EXPLANATION -HC ODOR DETECTED. YES NO EXPLANATION -SAMPLING DEPTHS (LANDFARMS): 3 - 5 (INCHES) SAMPLE TYPE GRAB / COMPOSITE # OF PTS. 5 ADDITIONAL COMMENTS: NO A CTURL LANDFARM OBSERVED ON-SITE, COLLECTED 5 PT. COMPOSITE SAMPLE SKETCH/SAMPLE LOCATIONS OVM GALIB. READ. = 15' OVM CALIB GAS = TIME. am/pm /DATÉ. COMPOSITE **OVM RESULTS** LAB SAMPLES SAMRE SAMPLE ANALYSIS AREA RESULTS (D) CF-1 CF-1 0950 ND (3) BENZENE S 0.0192 87 60 " BTEX 577W CHURUE 24.0 FROM (V) wELL

SCALE

ONSITE

FT

4/29/02

CALLOUT:

NA

HEAD

P.C. - 1/15/01

12/22/06



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39615	Date Sampled:	12-28-06
Chain of Custody No:	14681	Date Received:	12-28-06
Sample Matrix:	Soil	Date Extracted:	12-29-06
Preservative:	Cool	Date Analyzed:	01-02-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Elliott, A. L. GC F #1 Landfarm 5 Pt. Composite Sample

Aller C. Coleman

Christian Waster Review



Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39615	Date Sampled:	12-28-06
Chain of Custody:	14681	Date Received:	12-28-06
Sample Matrix:	Soil	Date Analyzed:	01-02-07
Preservative:	Cool	Date Extracted:	12-29-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	1.8	
Toluene	4.3	1.7	
Ethylbenzene	3.3	1.5	
p,m-Xylene	11.6	2.2	
o-Xylene	ND	1.0	
Total BTEX	19.2		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Elliott, A. L. GC F #1 Landfarm 5 Pt. Composite Sample

Alleen C. Comment

Muster m Walter



Chloride

Client: Blagg / BP Project #: 94034-010 Sample ID: LF - 1 Date Reported: 01-02-07 Lab ID#: 39615 Date Sampled: 12-28-06 Sample Matrix: Soil Date Received: 12-28-06 Preservative: Cool Date Analyzed: 12-29-06 Condition: Cool and Intact Chain of Custody: 14681

Parameter Concentration (mg/Kg)

Total Chloride 24.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Elliott, A. L. GC F #1 Landfarm 5 Pt. Composite Sample

otenen Watter Review

District I
PO Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200						
Address: 200 Amoco Court, Farmingto	n, New Mexico 87401						
Facility Or: ECLIOTI, A.L. G. Well Name	C F # (
Location: Unit or Qtr/Qtr Sec F Sec /4 T Z 9N R 9W County 5AN JWAN							
Pit Type: Separator Dehydrator Other ARANDONED							
Land Type: BLM, State, Fee							
(Attach diagram) Reference: wellhead	Pit Location: Pit dimensions: length 20, width 5, depth 4, Reference: wellhead X, other						
Footage from reference	:						
Direction from reference	ce: /5 Degrees East North						
	✓ 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)						
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)						
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)						
	RANKING SCORE (TOTAL POINTS):						

Date Remediation St	arted:	Date Completed:	1/18/01
Remediation Method:	Excavation $\sqrt{}$	Approx. cubic yards	44
Remediation Method: (Check all appropriate sections)	Landfarmed	Insitu Bioremediation _	
	Other		
Remediation Locatio	n: Onsite √ Off	site	
(ie. landfarmed onsite, name and location of offsite facility)	n. onsite_v_ orr		•
General Description	Of Remedial Action	:	
Excavation	on , mostly Bedrock	\~	
Ground Water Encoun	tered: No <u>√</u>	Yes Depth	
Final Pit: Closure Sampling:	Sample location	see Attached Documents	
(if multiple samples, attach sample results	Sample denth	4' (PIT BOTTOM)	
and diagram of sample locations and depths)		Sample time	
	Sample Results	Dample of the	
	_		
	Benzene(ppm)		
	Total BTEX(pp		
	_	ce(ppm) <u>\$5.0</u>	
	TPH 70.7 9Pm	,	
Ground Water Sample	: Yes No	/ _ (If yes, attach sample	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ABOVE IS TRUE AND COMPLET	E TO THE BEST
DATE IliBlO	Λ	BIIKCI	
SIGNATURE BASI	PRINTED AND TITL	NAME Buddy D. S.	one dinater

District I
PO Box 1980, Hobbs, NM
District II
PO Drawer DD, Artesia, NM 88211
District III
000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company	Telephone: (505) - 326-9200						
Address: 200 Amoco Court, Farmington	n, New Mexico 87401						
Facility Or: ELLOTT, A.L. GC Well Name	F # (
Location: Unit or Qtr/Qtr Sec_F Sec_14 T29N R9W County 5AN JWAN							
Pit Type: Separator							
Land Type: BLM /, State, Fee	, Other						
Footage from reference:	(, other						
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)						
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)						
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)						
	RANKING SCORE (TOTAL POINTS):						

Date Remediation St	arted:	Date Completed:	1/18/01
Remediation Method:	•		
I Check all appropriate	Landfarmed /	Insitu Bioremediation	
	Other		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		site	-
		1:	
Excavation	on. Mostly Bedroad		
Ground Water Encoun	tered: No /	Yes Depth	
Final Pit: Closure Sampling:	Sample location	see Attached Documents	
Closure Sampling: (if multiple samples, attach sample results		/	
Closure Sampling: (if multiple samples,	Sample depth	S' (WATH TIDEWALL)	//z S
Closure Sampling: (if multiple samples, attach sample results and diagram of sample		S' (WATH TIDEWALL)	// z S
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date ///	S' (NORTH SIDEWALL) 5/01 Sample time _	// z S
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date /// Sample Results Benzene(ppm)	S' (NORTH SIDEWALL) 5/01 Sample time	// z \$
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995	// Z S
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995 cce(ppm) /74	// z S
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPH 30.2 pp	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995 ce(ppm) /74	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPH 30.2 pp	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995 cce(ppm) /74	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPH 30.2 pp : Yes NoY AT THE INFORMATION	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995 ce(ppm) /74	results)
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample I HEREBY CERTIFY TH	Sample depth Sample date /// Sample Results Benzene(ppm) Total BTEX(pp Field headspa TPH	5' (NORTH SIDEWALL) 5/01 Sample time 0-123 om) 0.995 ce(ppm) /74 m / (If yes, attach sample :	results) E TO THE BEST

CHAIN OF CUSTODY RECORD

0846

Client / Project Name	· · · · · · · · · · · · · · · · · · ·		Project Location)				A 5 1 A 1 X /		AMETERS				
BLAGG/BP	Amoc	0	A.L. ELLIOT	T F #1				ANALY	515 / PAH	AMETERS				
Sampler:			Client No.		v		_				Ren	narks		
J. BLAGG			0403	b4 010	of ainer	No. of No. of TOH SO/S STEX SO21				****				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Conte	F12	237							
DEHY NOS'	1/15/01	1125	19097	SOIL	1	×	X							
BLOW CC4	1/15/01	1	19098	11	J	X								
ABANDONED											_			
Relinquished by: (Signatur	re)	L.,		/ ,	Received by:	(Signatu	ire)	7.1	<u> </u>		Da		Ì	me
Refinquished by: (Signatur	ro)			16/01 1315	Received by:	/Signatu	<u>P. (</u>	g'ence			1-10	100	13	25
Melinduished by. (Signardi	<i>-</i>				leceived by.	Oignatu								
Relinquished by: (Signatur	re)			F	Received by:	(Signatu	ıre)							
	~~····································	······································	<u> </u>			104				Same	ple Re	coint	<u> </u>	
					ECH	11 19	<u> </u>			Sain	pie nei	Y	N	N/A
				5796 U.S. I						Received Inta	ıct		, IN	19/74
				Farmington, Ne (505) 6	w Mexico 32-0615	8740 ⁻	1			Cool - Ice/Blue	-		_	



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

	• • • •	** *= # * * * **	An and a		
Client:	QA/QC		Project #:		N/A
Sample ID:	01-18-TPH QA	A/QC	Date Reported:		01-18-01
Laboratory Number:	19091		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		01-18-01
Condition:	N/A		Analysis Reque	ested:	TPH
	I-Cal Date	I-Cal RF:	, `C-Cal RF:	% Difference	· Accept. Range
Gasoline Range C5 - C10	08-03-00	6.2648E-002	6.2586E-002	0.10%	0 - 15%
Diesel Range C10 - C28	08-03-00	2.0382E-002	2.0341E-002	0.20%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Limit	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	654	651	0.4%	0 - 30%	
Diesel Range C10 - C28	277	276	0.3%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spiķe Added	Spike Result	% Recovery	Accept: Range
Gasoline Range C5 - C10	654	250	902	100%	75 - 125%
Diesel Range C10 - C28	277	250	526	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 19091 - 19098 and 19100 - 19101.

Allen L. Gleen

Review Musicaleus



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Client:	N/A		Project #:		N/A
Sample ID:	01-18-TPH QA/QC	:	Date Reported:		01-18-01
Laboratory Number:	19091		Date Sampled:		N/A
Sample Matrix	Soil		Date Received		N/A
Preservative:	N/A		Date Analyzed:	-	01-18-01
Condition:	N/A		Analysis:		BTEX
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Ran	ge 0 _{,-} 15%	Conc	Limit
Benzene	1 8167E-001	1 8211E-001	0.2%	ND	0.2
Toluene	3 4631E-002	3 4694E-002	0.2%	ND	0.2
Ethylbenzene	5.9784E-002	5 9910E-002	0.2%	ND	0.2
p,m-Xylene	5.4361E-002	5.4497E-002	0.3%	ND	0.2
o-Xylene	5 6391E-002	5 6487E-002	0.2%	ND	0.1
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Dețect. Limit
Benzene	1,920	1,940	1.0%	0 - 30%	1.8
Toluene	1,890	1,900	0.5%	0 - 30%	1.7
Ethylbenzene	791	794	0.4%	0 - 30%	1.5
p,m-Xylene	1,440	1,440	0.0%	0 - 30%	2.2
o-Xylene	1,840	1,860	1.1%	0 - 30%	1.0
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Áccept Range
Benzene	1,920	50.0	1,930	98%	39 - 150
Toluene	1,890	50.0	1,900	98%	46 - 148
Ethylbenzene	791	50.0	825	98%	32 - 160
	1,440	100	1,510	98%	46 - 148
p,m-Xylene	•				
o-Xylene	1,840	50.0	1,850	98%	46 - 148

ND - Parameter not detected at the stated detection limit.

References.

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 19091 - 19093, 19096 - 19097 and 19100 - 19101.

Misting Moetes
Review

Analyst

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District I
P O Box 1980 Hobbs NM

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

SUBMIT 1 COPY TO APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

SANTA FE OFFICE



District III P.O. BOX 2088

SANTA FE, NEW MEXICO 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMOCO		T	elephone: (505) 326-9200				
Address: 200 AMOCO	COURT, FARMINGTON	N, NM 87401					
Facility or Well Name: Ell	Facility or Well Name: Elliott AL. GCF#1						
Location: Unit or Qtr/Qtr Se	c_ F Sec_ 14	TZAN RAW Count	y San Juan				
Pit Type: Separator Do	ehydrator Other_Blow	\mathcal{U}					
Land Type: BLM <u>X</u> , S	State, Fee, Oth	ner					
	Pit dimensions: length	NA , width NA	, depth NA				
(Attach diagram)	Reference: wellhead X	_, other					
	Footage from reference:	199					
	Direction from reference:	<u> </u>	East North of West South				
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) (10 points) (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 No	(20 points) (0 points)0				
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, immigation canals and ditches)		Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)0				
		RANKING SCORE (TOTA	AL POINTS):0_				
revised, 03/12/01			bei1202 wpd				

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District I
P.O Box 1980 Hobby NM

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE



OIL CONSERVATION DIVISION P.O. BOX 2088 SANTA FE, NEW MEXICO 87504-2088 AND 1 COPY TO

PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMOCO	Telephone: (505)	326-9200
Address: 200 AMOCO	COURT, FARMINGTON, NM 87401	
Facility or Well Name:	liott AL, GC F#1	
Location: Unit or Qtr/Qtr So	ec F Sec 14 T 29N R 9W County San Juan	
Pit Type: SeparatorD	ehydrator Other	
Land Type: BLM <u>X</u> ,	State, Fee, Other	
Pit Location:	Pit dimensions: length NA, width NA, deptl	h <u>NA</u>
(Attach diagram)	Reference: wellhead X , other	
	Footage from reference: 113	
	Direction from reference: 4 Degrees East North of West South	1
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, immediation canals and ditches)	Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	0
revised: 03/12/01		bei1202.wpd

Date Remediation Sta	arted:	Date Completed:	11-21-01
nediation Method:	Excavation X	Approx. cubic yards _	NA
(Check all appropriate sections)	Landfarmed	Insitu Bioremediation _	
	OtherCLOSE AS IS.		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite		
General Description	of Remedial Action: <u>Excavation.</u>	Test hole advanced. No r	emediation necessary.
Bedrock R	Bottom	44	
Groundwater Encoun	tered: No X Yes	Depth	
Closure Sampling:	Sample locationsee Attached Doc	uments	
attach sample results and diagram of sample	Sample depth 31	(Test hole bottom)	
locations and depths)	Sample date - 9-0	Sample time <u>073</u>	5
	Sample Results	•	
	Soil: Benzene (ppm)	2.555 Water: Benzene	(ppb)
	Total BTEX (ppm)	7.020 Toluene	(ppb)
	Field Headspace (ppm)	528 Ethylber	nzene (ppb)
	TPH (ppm)	1130 Total X	vlenes (ppb)
Groundwater Sample	Yes No	X (If yes, attach	sample results)
I HEREBY CERTIFY KNOWLEDGE AND	THAT THE INFORMATION ABOV BELIEF	E IS TRUE AND COMPLETE	TO THE BEST OF MY
DATE 11-21-	O\ PRINTED	NAME <u>Jeffrey C. Blag</u>	g
SIGNATURE	My C Blogg AND TITLE	E <u>President P.</u>	E. # 11607

CHAIN OF CUSTODY RECORD 08793

Client / Project Name	,		Project Location					ANALVO	IS / PARAI	METERS			
BLAGG 18F	>		ELLIOTT A.L.	GC F #/				ANALIS	IS / FARAI	WETENS			
Sampler:			Client No.		တ					R	emark	s	
NJV			94034	010	No. of ontainer	1	,						
Sample No./	Sample	Sample	Lab Number	Sample	No. of Containers	8615	Stex						
Identification	Date	Time		Matrix			{***						
D e 3'	11/19/01	0730	21534	5012	1	1	/			BLOW 1	017		
De 3'	11/19/01	0735	2 153S	2015	/	~	1			SEPARATO	Q P	17	
											· · · · · · · · · · · · · · · · · · ·		
										GRAB 5	AMP	£5_	
										PRESERVE	:D C	OOL	-
Relinquished by: (Signat	(ure)			. 1 1	eived by:	(Signatu	re)	t			Date		me
Relinquished by: (Signat				1/19/01 0940 Hec	eived by:	<u> </u>	· (de t	ســـــــــــــــــــــــــــــــــــــ		11	19.0	08	40
	•				•	. •	,						
Relinquished by: (Signat	ture)			Rec	eived by: ((Signatu	re)						
				ENVIROTE		100	<u> </u>			Sample R	eceipt	1	
				LITVIROIL	<u>.UП</u>	11 11	_ .			•		N	N/A
			•	5796 U.S. Hig Farmington, New						Received Intact	_	-	
				(505) 632		J. 101	•			Cool - Ice/Blue Ice	-		



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	11-21-TPH Q/	VQC	Date Reported:		11-21-01
Laboratory Number:	21534		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		11-21-01
Condition:	N/A		Analysis Reques	ted:	TPH
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept: Range
Gasoline Range C5 - C10	08-22-01	1.2571E-002	1.2559E-002	0.10%	0 - 15%
Diesel Range C10 - C28	08-22-01	8.3733E-003	8.3565E-003	0.20%	0 - 15%
Blank Conc. (mg/L - mg/K	9/2	Concentration		Detection Lin	īit!
Blank Conc. (mg/L - mg/r	19/2 - 12/2 -	Concentration		Detection Lin	iit!
Gasoline Range C5 - C10	S9/Addication of the Section of the	ND		0.2	
Gasoline Range C5 - C10 Diesel Range C10 - C28	The second of th	ND ND		0.2 0.1	iit.
Gasoline Range C5 - C10	The second of th	ND		0.2	<u> </u>
Gasoline Range C5 - C10 Diesel Range C10 - C28		ND ND	% Différence	0.2 0.1 0.2	harry'
Gasoline Range C5 - C10 Diesel Range C10 - C28 Total Petroleum Hydrocarbons		ND	% Difference 10.4%	0.2 0.1 0.2	harry'
Gasoline Range C5 - C10 Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg)	s Sample	ND ND ND	AND A COMMERCIAL ST. CONTRACT. SAN OF CO. LONG.	0.2 0.1 0.2 Accept. Range	harry'
Gasoline Range C5 - C10 Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg) Gasoline Range C5 - C10 Diesel Range C10 - C28	s Sample 123	ND ND ND Duplicate	0.4%	0.2 0.1 0.2 Accept Range 0 - 30% 0 - 30%	8
Gasoline Range C5 - C10 Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg) Gasoline Range C5 - C10	Sample 123 61.7	ND ND ND Duplicate	0.4% 0.3%	0.2 0.1 0.2 Accept Range 0 - 30% 0 - 30%	8

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 21534 - 21535 and 21545.



Client:	N/A		Project #:	N	N/A
Sample ID:	11-21-BTEX QA/Q	(C	Date Reported:	1	11-21-01
_aboratory Number:	21534		Date Sampled:	1	N/A
Sample Matrix:	Soil		Date Received:	١	N/A
Preservative:	N/A		Date Analyzed:	1	1-21-01
Condition:	N/A		Analysis:	E	BTEX
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect,
Detection Limits (ug/L)		Accept. Rang	ge 0 - 15%	Conc	Limit
Benzene	1 7143E-001	1 7195E-001	0.3%	ND	0.2
l'oluene	9.4693E-002	9.4883E-002	0.2%	ND	0.2
Ethylbenzene	1.2284E-001	1.2321E-001	0.3%	ND	0.2
o,m-Xylene	1.0810E-001	1 0843E-001	0.3%	ND	0.2
o-Xylene	9.2106E-002	9.2290E-002	0.2%	ND	0.1
100 H2 VIII WHAT I WAS A STATE OF THE STATE	and a spirit of the second state of the second	turn 1998 <u>i ilm</u> akoko 2000-artista eta 2012 eta			
Ouplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
2 471 77 679 880 75 880 7 7 8 7 7 7 7 7 7 7	Sample 533	Duplicate 542	%Diff. 1.7%	Accept Range	Detect: Limit
Benzene	NOW NO	or one a years - ware washing	and the control of th	20 0 2000 2 000 000 000 C	e andrews to service an extremely
Benzene Foluene	533 952 583	542	1.7%	0 - 30%	1.8
Benzene Foluene Ethylbenzene	533 952	542 963	1.7% 1.2%	0 - 30% 0 - 30%	1.8 1.7
Senzene Foluene Sthylbenzene Syn-Xylene	533 952 583	542 963 591	1.7% 1.2% 1.3%	0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene	533 952 583 3,510 1,450	542 963 591 3,560 1,480	1.7% 1.2% 1.3% 1.4% 2.1%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene p-Xylene Spike Conc. (ug/Kg)	533 952 583 3,510	542 963 591 3,560	1.7% 1.2% 1.3% 1.4% 2.1%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked Spi	ked Sample	% Recovery	Accept Range
Benzene	533	50.0	580	99.5%	39 - 150
Toluene	952	50.0	997	99.5%	46 - 148
Ethylbenzene	583	50.0	630	99.5%	32 - 160
p,m-Xylene	3,510	100	3,590	99.4%	46 - 148
o-Xylene	1,450	50.0	1,490	99.3%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 21534 - 21535 and 21545.

Analyst

CHAIN OF CUSTODY RECORD

Client / Project Name	00		Project Location	_		ANALYSIS / PARAMETERS										
	<i>57</i>		ELLIOTI, A.	<u>L. GC</u>	F #/											
Sampler:			Client No.	>34-010	5		o. of ainers	TPH (80158)		BIEX		P2	Remarks PRESERVED COOL 5PT. Com ROSITTE SAMPLE			
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Cont	(90158)	(80Z1B)	CHOOLIDE	SPT. Ca	KVED) 2m R25	TITE	5Ar	L nPLE
LF - 2	12/28/06	0950	39615	5	012		/	/	•	✓		LANC	DFA PO	m_		
							w-west									
Relinquished by: (Signation of the Relinquished by:	Vy			Date 12/28/06	Time /359	Ch	میر	(Signatur	\sim	بلاد	eters		Da 12 2			me
Relinquished by: (Signati	ure)		*		'	Receive	ed by:	(Signatur	re)							
				ENY	'IRO	TEC	H		<u>)</u> .			Samp	ple Red	—Т		
					5796 U.S ington, N							Received Inta	ıct	Y	N /	N/A
				i aiiii		632-06		. 0, 401				Cool - Ice/Blue	Ice	1		

CHAIN OF CUSTODY RECORD

Client / Project Name	вР		Project Location	OT, A.L. GC F #/						ANAL	ANALYSIS / PARAMETERS						
Sampler:			Client No.	34-010			ainers	TPH (80158)		BIEX 3		Remarks Parsento C					
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	2	Cont	gp158)		BOZ1B)	CHURCION	PRESE SPT. C	on Ris	17F	SAM	- PLE	
LF - 1	12/28/06	0950	39615	5	012		/	/		/	/	LAN	OFA 12	m.			
															,		
'																	
Relinquished by: (Signation of the Control of the C	Vy			Date 12/28/06	Time /359	(W	تميا	(Signature) tu v (Signature)	\sim	JWa	eters		12/2		Tin <u>. 13</u> :		
Relinquished by: (Signati	ıre)		•			Received	d by:	(Signature))								
				ENY	'IRO	ΓEC	Н	INC	! !		Arman March (M. Maragon)	Sam	ple Red		NI .	NI/A	
					5796 U.S ington, N							Received Inta	act	Y	N /	N/A	
				· aiiii		632-06		37-701				Cool - Ice/Blue	lce		_		



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

N/A
01-02-07
N/A
N/A
01-02-07
TPH
alite air immilite - 20 i ii
Accept. Range
0 - 15%
0 - 15%
· ·
,
ارا ق د
*
Accept: Range
75 - 125%
75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 39612 - 39618

Analyst



Client:	N/A	Project #:	N/A
Sample ID:	01-02-BTEX QA/QC	Date Reported:	01-02-07
Laboratory Number:	39612	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-07
Condition:	N/A	Analysis:	BTEX

l-CalRF:	C-Cal RF: Accept: Ran	%Diff. ge 0 - 15%	Blank Conc	Detect Limit
3.3208E+007	3.3275E+007	0.2%	ND	0.2
4.4577E+007	4.4667E+007	0.2%	ND	0.2
2.1124E+007	2.1167E+007	0.2%	ND	0.2
9.0067E+007	9.0248E+007	0.2%	ND	0.2
3.9449E+007	3.9528E+007	0.2%	ND	0.1
	3.3208E+007 4.4577E+007 2.1124E+007 9.0067E+007	3.3208E+007 3.3275E+007 4.4577E+007 4.4667E+007 2.1124E+007 2.1167E+007 9.0067E+007 9.0248E+007	Accept: Range 0 - 15% 3.3208E+007 3.3275E+007 0.2% 4.4577E+007 4.4667E+007 0.2% 2.1124E+007 2.1167E+007 0.2% 9.0067E+007 9.0248E+007 0.2%	Accept Range 0 - 15% Conc 3.3208E+007 3.3275E+007 0.2% ND 4.4577E+007 4.4667E+007 0.2% ND 2.1124E+007 2.1167E+007 0.2% ND 9.0067E+007 9.0248E+007 0.2% ND

Duplicate Conc. (ug/Kg)	Sample Do	iplicate	-%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	4.7	4.7	0.0%	0 - 30%	1.7
Ethylbenzene	7.4	7.4	0.0%	0 - 30%	1.5
p,m-Xylene	25.5	25.4	0.4%	0 - 30%	2.2
o-Xylene	11.5	11.5	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked Spik	ked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	4.7	50.0	54.6	99.8%	46 - 148
Ethylbenzene	7.4	50.0	57.3	99.8%	32 - 160
p,m-Xylene	25.5	100	125	99.8%	46 - 148
o-Xylene	11.5	50.0	61.5	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 39612 - 39618

Analyst

Christine m Walters
Review