District I - (505) 393-6161

PO. Bóx 1980

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 South First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road Aztec, NM 87410

District IV - (505) 334-6178

State of New Mexico

Energy Minerals and Natural Resources Department

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 8/505

(505) 827-7131

Form C - 141 Originated 2/13/97

Submit 2 copies to Appropriate District Office in accordance with Rule 116 on back side of form

200	ula a	\ \\	Release Not	ification and (Corrective Action R	SER SERVICE	202 De	
SO -(<u> </u>	1 (49	<u> </u>	OPERATO	R		Initial Report	X Final Report
Name				,		Contact		<u>.</u>
Conoco Inc						Gary Ledbe	etter	
Address						Telephone No.		
	nfield Hwy;	Farmingto	n,NM 8740	1	··	505-324-58	337	
Facility Name						Facility Type		
State Com 012 I	<u> </u>					Production Fact		· .
Surface Owner				Mineral Owr	ier		Lease No.	
State of New Mo	exico			Starte of Nev			E-1202-1	
					ON OF RELEASE	·		
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	29N	8W	790	FSL	790	FEL	San Juan
				NATURI	E OF RELEASE			
Type of Release				•	Volume of Release		Volume Recovered	
Condensate Source of Release					15 - 20 bbls		none	
					Date and Hour of Occi	irrence	Date and Hour of D	iscovery
Oil tank manwa Was Immediate	y Notice Given?				unknown .		7-20-00 12:00 noon If YES, to Whom?	
· · · · · · · · · · · · · · · · · · ·	route Given	Yes		\prod_{No}	X	Not Required		
D. 11/1 0		<u> </u>				rvot Required		
By Whom?							Date and Hour	
Was a Watercou	rse Reached?		· · · · · · · · · · · · · · · · · · ·				If YES, Volume Im	pacting the Watercourse
		Yes		XNo			11 123, 1014110 1111	pacting the watercourse
If a Watercourse	was Impacted De	escribe Fully	(Attach additions	al Sheets If Necess	arv)			
ii a Watercourse	was impacted, D	escribe runy.	(Tituen desirion	an onects in recess	u. y)			
				Additional Sheets	• •			
	-			hered and aged. S	oil samples from 3' deep	(bedrock) were	taken from where the	condensate first started
	round and the sam iffected and Clean			tional Sheets If Ne	cessary)			· · · · · · · · · · · · · · · · · · ·
		•	•		••			
					affected area remediated			
								and regulations all operators nvironment. The acceptance
ot a C-141 repor	t by the NMOCD	marked "Final	Report" does no	t relieve the operat	or of liability should the	eir operations ha	ve tailed to adequately	investigate and remediate
						ion, NMUCD ac	ceptance of a C-141 re	port does not relieve the
operator of respo	onstollity for comp	mance with an	y other rederat, s	tate or local laws a	ind/or regulations.	· · · · · ·		
	tran 1	11.AK						
Signature: /(/	my sen	new			 	Approved by	OIL CONSERVATION	ON DIVISION
	•					'' '	Cong -	1000
Printed Name:G	ary Ledbeter					District Supervi	sor: for tra	mk Chavez
		a.					Plulan	
SHEAR Special	ist					Approval Date	911100	Expiration Date:
İ						<u></u>	<i>'</i>	
	7/31/20	000 505-324-5	837			Conditions of A	pproval:	Attached

Notin computer nJK1217343149

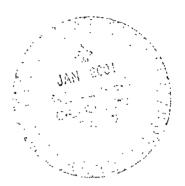


Conoco Inc. P.O. Box 2197 Houston, TX 77252-2197

January 22, 2001

Mr. Denny G. Foust New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: State Com O 12-E, Rio Arriba, County Unit A, Sec 29, T-29-N, R-8W



Dear Mr. Foust:

This letter is to serve as a written follow-up to our conversation last week and to provide a copy of analytical data from the remediation of the July 20, 2000, condensate spill at the State Com O 12-E. The spill at this site resulted from a defective manway gasket on the newly installed 300-bbl. condensate storage tank.

Attached are two sets of sampling analyses. The first set of samples were taken on August 3, 2000, and obtained using a hand auger. The first sample was taken at the surface of the ground immediately below the leaking manway gasket, the second sample was taken 17-inches beneath the surface, and the third sample was taken at a total depth of 36-inches. Bedrock was reached at the third sample depth (36"). Analyses of the samples produce the following results (all units are ppm):

	TPH	Benzene	Total BTEX
Surface Sample	3,790	NA	NA
17" Sample	4,970	NA	NA
36" Sample	7,480	0.840	5.490

NA = Not Analyzed

All measured parameters meet or exceed the recommended remediation levels published in the "Unlined Surface Impoundment Closure Guidelines, February 1993, except for the TPH concentration of the 36-inch depth sample. However, it should be noted that this sample was collected immediately above bedrock depth.

The second set of samples were collected on September 8, 2000, and were obtained with the use of a backhoe. Approximately three (3) cubic yards of soil were removed from the area where the leak had occurred. The final excavation measured approximately nine (9) feet by nine (9) feet by three (3) feet deep. The removed soil was spread out on location. Again, three (3) samples were taken from the excavated area. The sample labeled "Floor" was taken at the bottom center of the excavation immediately above bedrock (approximately 36-inches). The sample labeled "Tank Side" was taken at the bottom of the excavation

closest to the storage tank. The sample labeled "Front Side" was taken at the bottom of the excavation farthest from the storage tank. Analysis of these samples produced the following data (all units are ppm).

	<u>TPH</u>	Benzene	Total BTEX
Floor	4,780	1.4	8.9
Tank Side	6,100	0.179	5.16
Front Side	4,860	0.966	8.27

Again, all samples meet or exceed the remediation criteria set forth by NMOCD except for the TPH concentration of the sample labeled as "Tank Side". It should once more be pointed out that all three (3) of this second set of samples were collected immediately above bedrock (approximately 36 to 40-inches below surface.

Conoco respectfully requests that this matter be officially closed. It is our conclusion that even though TPH levels remain slightly above guideline concentrations, the bedrock encountered at this site will effectively isolate any remaining contamination from the area's groundwater.

We appreciate your consideration and understand that if you disagree with our conclusion we will be notified.

Sincerely,

Environmental Coordinator San Juan Operating Unit

Attachments

cc: Donald Blair



	; · ·	•	
Client:	Conoco, Inc.	Project #:	707003-239
Sample ID:	Tank Leaks (Top)	Date Reported:	08-07-00
Laboratory Number:	H857	Date Sampled:	08-03-00
Chain of Custody No:	7982	Date Received:	08-03-00
Sample Matrix:	Soil	Date Extracted:	08-07-00
Preservative:	Cool	Date Analyzed:	08-07-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3,310	0.2
Diesel Range (C10 - C28)	484	0.1
Total Petroleum Hydrocarbons	3,790	0.1

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:

St. Com O 12 E.

Allen L. Cefer Analyst Phristini My Walters



	•		
Client:	Conoco, Inc.	Project #:	707003-239
Sample ID:	17" (Middle)	Date Reported:	08-07-00
Laboratory Number:	H858	Date Sampled:	08-03-00
Chain of Custody No:	7982	Date Received:	08-03-00
Sample Matrix:	Soil	Date Extracted:	08-07-00
Preservative:	Cool	Date Analyzed:	08-07-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4,060	0.2
Diesel Range (C10 - C28)	906	0.1
Total Petroleum Hydrocarbons	4,970	0.1

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:

St. Com O 12 E.

Analyst R. Office

Phristini My Walters



Client:	Conoco, Inc.	Project #:	707003-239
Sample ID:	36" (Bottom)	Date Reported:	08-07-00
Laboratory Number:	H859	Date Sampled:	08-03-00
Chain of Custody No:	7982	Date Received:	08-03-00
Sample Matrix:	Soil	Date Extracted:	08-07-00
Preservative:	Cool	Date Analyzed:	08-07-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6,370	0.2
Diesel Range (C10 - C28)	1,110	0.1
Total Petroleum Hydrocarbons	7,480	0.1

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:

St. Com O 12 E. Hit bedrock @ 3'.

Review Walters



Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	08-07-TPH QA	VQC	Date Reported:		08-07-00
Laboratory Number:	H854		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		08-07-00
Condition:	N/A		Analysis Reques	ted:	TPH
্বিকাশ প্রক্রিয়ার করে। বিশ্ববিদ্যালয় করে বিশ্ববিদ্যালয় বিশ্ববি	- I-Cal Date	LCal RF	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	08-03-00	2.1477E-002	2.1455E-002	0.10%	0 - 15%
Diesel Range C10 - C28	08-03-00	1.7996E-002	1.7960E-002	0.20%	0 - 15%
Blank Conc. (mg/L - mg/Kg		Concentration		Detection Lim	and the second
Gasoline Range C5 - C10	/ 30 Michael and Arman	ND		0.2	110
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	Total Andrews
Gasoline Range C5 - C10	1,350	1.340	0.7%	0 - 30%	<u> </u>
Diesel Range C10 - C28	2,860	2.860	0.0%	0 - 30%	
Dieser Kange C10 - C20	2,000	2,000	0.076	0 - 30 /6	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,350	250	1,600	100%	75 - 125%
Diesel Range C10 - C28	2,860	250	3,110	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 H854 - H859 and H861 - H864.

Analyst



_			
Client:	Conoco, Inc.	Project #:	707003-239
Sample ID:	36" (Bottom)	Date Reported:	08-07-00
Laboratory Number:	H859	Date Sampled:	08-03-00
Chain of Custody:	7982	Date Received:	08-03-00
Sample Matrix:	Soil	Date Analyzed:	08-07-00
Preservative:	Cool	Date Extracted:	08-07-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	840	1.8
Toluene	1,040	1.7
Ethylbenzene	1,090	1.5
p,m-Xylene	1,190	2.2
o-Xylene	1,330	1.0
Total BTEX	5,490	

ND - Parameter not detected at the stated detection limit.

Parameter	Percent Recovery		
Trifluorotoluene	100 %		
Bromofluorobenzene	100 %		
	Trifluorotoluene		

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:

St. Com O 12 E. Hit bedrock @ 3'

Analyst L. Oglesse

Phristini my Walters



Client:	N/A		Project #:	N	/A
Sample ID:	08-07-BTEX QA/0	ac ac	Date Reported:	0	8-07-00
Laboratory Number:	H854		Date Sampled:	N	/A
Sample Matrix:	Soil		Date Received:	N	/A
Preservative:	N/A		Date Analyzed:	0.	8-07-00
Condition:	N/A		Analysis:	В	TEX
Calibration and	l-Cal RF;	C-Cal RF:	%Diff: je 0 - 15%	Blank Conc	Detect. Limit
Detection Limits (ug/L)		Accept. Rang	je 0 - 15%	Conc	Limit
Detection Limits (ug/L)	I-Cal RF: 6.1654E-002 8.4151E-002	C-Cal RF: Accept. Ranc 6.1802E-002 8.4303E-002	%Diff. je 0 - 15% 0.2% 0.2%	Blank Conc ND ND	Detect Limit 0.2 0.2
Detection Limits (ug/L) Benzene Toluene	6.1654E-002	Accept. Rand 6.1802E-002	je 0 - 15%	Conc.	Limit 0.2
Calibration and Detection Limits (ug/L) Benzene Toluene Ethylbenzene p,m-Xylene	6.1654E-002 8.4151E-002	Accept. Rand 6.1802E-002 8.4303E-002	oe 0 - 15% 0.2% 0.2%	Conc ND ND	Limit

Duplicate Conc. (ug/Kg)	Sample	uplicate 🦠 🤅	%Diff.	Accept Range	Detect. Limit
Benzene	210	209	0.5%	0 - 30%	1.8
Toluene	1,120	1,100	1.8%	0 - 30%	1.7
Ethylbenzene	808	801	0.9%	0 - 30%	1.5
p,m-Xylene	2,560	2,540	0.8%	. 0 - 30%	2.2
o-Xylene	1,370	1,370	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	ount Spiked : Spi	ked Sample	% Recovery	Accept Range
Benzene	210	50.0	260	100%	39 - 150
Toluene	1,120	50.0	1,170	100%	46 - 148
Ethylbenzene	808	50.0	856	100%	32 - 160
p,m-Xylene	2,560	100	2,650	100%	46 - 148
o-Xylene	1,370	50.0	1,420	100%	46 - 148

^{* -} Administrative range set to 80 - 120%.

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 H854 - H856, H859 and H861 - H864.

Line Misting Walter

Analyst

Review-

Client / Project Name			Project Location												
CUNOCO 1	WC.		51. Cu	m C	120	_			AI	NALYSIS /	PARAM	METERS			
Sampler:			Client No.	···]		<u> </u>		 	Rema	·kc	
Eickho-H	/ Co	fer	707003	<u> </u>	9	No. of	Hd	K K X						NO	
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	Ž Ž	1	BTE							
Tank Leuks	8/3/00	1:00	H82]		507/	/	L								
17" (middle)	8/3/00	1:15	14828		5017	/	-								
17" (middle) 34" (bottom)	8/3/cw	J: 30	H8Z-9		5011	/	L	<i>'</i>				4i7	bed	, SC	£6
															3'
				<u> </u>											
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Relinquished by (Signatur	eY			8/3/00	14:20	Received by:	(Signatu	re)	yer				8.3.0	2/2	4, 10
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						32-0615	, U1-1U1				C	Cool - Ice/Blue	ce L		

ENVIROTECH LABS

September 13, 2000

Mr. John Cofer Conoco, Inc. 3315 Bloomfield Highway Farmington, New Mexico 87401 JAN 2001 (505) 324-5813 (505) 324-5825

Client No.: 97070 Job No.: 707003

Dear Mr. Cofer:

Enclosed are the analytical results for the samples most recently submitted for the Pit Closures project.

The samples were extracted and/or analyzed using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,

Envirotech, Inc.

Christine M. Walters

Laboratory Coordinator / Environmental Scientist

enclosure

CMW/cmw

C:\Files\Lab Reports\Conoco\.wpd



Client:	Conoco	Project #:	707003-248
Sample ID:	Floor	Date Reported:	09-13-00
Laboratory Number:	18127	Date Sampled:	09-08-00
Chain of Custody No:	7987	Date Received:	09-08-00
Sample Matrix:	Soil	Date Extracted:	09-12-00
Preservative:	Cool	Date Analyzed:	09-12-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4,600	0.2
Diesel Range (C10 - C28)	179	0.1
Total Petroleum Hydrocarbons	4,780	0.1

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:

State Com O 12-E.

Analyst

Christmen Jacken



Client:	Conoco	Project #:	707003-248
Sample ID:	Tank Side	Date Reported:	09-13-00
Laboratory Number:	18128	Date Sampled:	09-08-00
Chain of Custody No:	7987	Date Received:	09-08-00
Sample Matrix:	Soil	Date Extracted:	09-12-00
Preservative:	Cool	Date Analyzed:	09-12-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	5,660	0.2
Diesel Range (C10 - C28)	441	0.1
Total Petroleum Hydrocarbons	6,100	0.1

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:

State Com O 12-E.

Analyst



Client:	Conoco	Project #:	707003-248
Sample ID:	Front Side	Date Reported:	09-13-00
Laboratory Number:	18129	Date Sampled:	09-08-00
Chain of Custody No:	7987	Date Received:	09-08-00
Sample Matrix:	Soil	Date Extracted:	09-12-00
Preservative:	Cool	Date Analyzed:	09-12-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4,710	0.2
Diesel Range (C10 - C28)	149	0.1
Total Petroleum Hydrocarbons	4,860	0.1

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:

State Com O 12-E.

Analyst A. Oylesan

Review Museles



Quality Assurance Report

				<u></u>	
Client:	QA/QC		Project #:		N/A
Sample ID:	09-12-TPH QA	/QC	Date Reported:		09-13-00
Laboratory Number:	18127		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		09-12-00
Condition:	N/A		Analysis Request	ed:	TPH
	I-Cal Date	I-Cal RF:	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	08-03-00	2.2704E-002	2.2681E-002	0.10%	0 - 15%
Diesel Range C10 - C28	08-03-00	1.1286E-002	1.1263E-002	0.20%	0 - 15%
Blank Conc. (mg/L - mg/Kg		Concentration		Detection Lin	ă i
Gasoline Range C5 - C10	THE A MINISTERNAL WAY WAS TO SEEN THE TRANSPORT THE TER	ND	er ombresional county of the	0.2	w.L.
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	4,600	4,580	0.4%	0 - 30%	
Diesel Range C10 - C28	179	178	0.3%	0 - 30%	
Spike Conc. (mg/Kg)	Sample:	Spike Added	Spike Result	% Recovery	: Accept Range
	MANAGEMENT OF THE PROPERTY OF THE PARTY OF T	ridia no	A O 40	4000/	description of the control of the co
Gasoline Range C5 - C10	4,600	250	4,840	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 18127 - 18129, 18132 - 18135 and 18140 - 18141.

Re



t #: 707003-248
Reported: 09-12-00
Sampled: 09-08-00
Received: 09-08-00
Analyzed: 09-12-00
Extracted: 09-12-00
sis Requested: BTEX
FE

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,400	1.8
Toluene	2,800	1.7
Ethylbenzene	1,470	1.5
p,m-Xylene	1,310	2.2
o-Xylene	1,930	1.0
Total BTEX	8,900	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	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:

State Com O 12-E.

Analyst Analyst

Review



Client:	Conoco	Project #:	707003-248
Sample ID:	Tank Side	Date Reported:	09-12-00
Laboratory Number:	18128	Date Sampled:	09-08-00
Chain of Custody:	7987	Date Received:	09-08-00
Sample Matrix:	Soil	Date Analyzed:	09-12-00
Preservative:	Cool	Date Extracted:	09-12-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

		Det.	
	Concentration	Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	179	1.8	
Toluene	178	1.7	
Ethylbenzene	1,480	1.5	
p,m-Xylene	959	2.2	
o-Xylene	2,360	1.0	
Total BTEX	5,160		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	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:

State Com O 12-E.

Analyst P. Opener

Review Market



Client:	Conoco	Project #:	707003-248
Sample ID:	Front Side	Date Reported:	09-12-00
Laboratory Number:	18129	Date Sampled:	09-08-00
Chain of Custody:	7987	Date Received:	09-08-00
Sample Matrix:	Soil	Date Analyzed:	09-12-00
Preservative:	Cool	Date Extracted:	09-12-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Ponwone	oce	4.0
Benzene Toluene	966 2,420	1.8 1.7
Ethylbenzene	1,150	1.5
p,m-Xylene	1,550	2.2
o-Xylene	2,180	1.0
Total BTEX	8,270	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery					
	Trifluorotoluene	100 %					
	Bromofluorobenzene	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:

State Com O 12-E.

Analyst

Review



Client:	N/A	Р	roject #:	ĺ	N/A		
Sample ID:	09-12-BTEX QA/QC	D D	ate Reported:	(09-12-00		
Laboratory Number:	18127		ate Sampled:		N/A		
Sample Matrix:	Soil	D	ate Received:	1	N/A		
Preservative:	N/A	D	ate Analyzed:	(09-12-00		
Condition:	N/A	Α	nalysis:	ſ	BTEX		
Calibration and Detection Limits (ug/L)	i-Cal RF:	C-Cal RF: Accept, Range	%Diff. 0 - 15%	Blank Conc	Detect: Limit		
Benzene	4 5223E-002	4.5332E-002	0.2%	ND	0.2		
Toluene	4.9589E-002	4.9679E-002	0.2%	ND	0.2		
Ethylbenzene	7 1608E-002	7.1758E-002	0.2%	ND	0.2		
p,m-Xylene	7.6571E-002	7.6763E-002	0.3%	ND	0.2		
o-Xylene	6 8123E-002	6.8239E-002	0.2%	ND	0.1		
Duplicate Conc. (ug/Kg)		id Duplicate	I a remain a la la marana	Accept Range	Detect Limit		
Benzene Toluene Ethylbenzene	1,400 2,800 1,470	1,360 2,710 1,430	2.9% 3.2% 2.7%	0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5		
Benzene Toluene Ethylbenzene p,m-Xylene	1,400 2,800 1,470 1,310	1,360 2,710 1,430 1,270	2.9% 3.2% 2.7% 3.1%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	1,400 2,800 1,470 1,310 1,930	1,360 2,710 1,430 1,270 1,880	2.9% 3.2% 2.7% 3.1% 2.6%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	1,400 2,800 1,470 1,310 1,930	1,360 2,710 1,430 1,270 1,880	2.9% 3.2% 2.7% 3.1% 2.6%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	1,400 2,800 1,470 1,310 1,930 Sample	1,360 2,710 1,430 1,270 1,880 Amount Spiked	2.9% 3.2% 2.7% 3.1% 2.6%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/kg)	1,400 2,800 1,470 1,310 1,930	1,360 2,710 1,430 1,270 1,880	2.9% 3.2% 2.7% 3.1% 2.6%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	1,400 2,800 1,470 1,310 1,930 Sample	1,360 2,710 1,430 1,270 1,880 Amount Spiked	2.9% 3.2% 2.7% 3.1% 2.6%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0		
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	1,400 2,800 1,470 1,310 1,930 Sample	1,360 2,710 1,430 1,270 1,880 50.0 50.0	2.9% 3.2% 2.7% 3.1% 2.6% Spiked Sample 1,450 2,840	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0 Accept Range 39 - 150 46 - 148		

^{* -} Administrative range set to 80 - 120%.

ND - Parameter not detected at the stated detection limit.

References:

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

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

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

QA/QC for samples 18127 - 18129 and 18141.

CHAIN OF CUSTODY RECORD

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Tank Side	918/00	9:50	18128	\ <u>S</u>	51		1	レ	~								
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