Report Date: June 5, 2002Order Number: A02051716 N/A Maralo Page Number: 1 of 3 Jay Anotheny Ranch

June 5, 2002

A02051716

Summary Report

Before the OCC Case 13142 - *De Novo* OCD Ex. 5

Wayne Price OCD 1220 S. Saint Francis Dr. Santa Fe, NM 87505 Order ID Number:

Project Number: N/A Project Name: Maralo Project Location: Jay Anotheny Ranch

		and the second second	Date	Time Date
Sample	Description	Matrix	Taken	Taken Received
197262	North Area-2'	Soil	5/16/02	9:29 5/17/02
197263	North Area-4'-6'	Soil	5/16/02	9:49 5/17/02
197264	North Area-6-8'	Soil	5/16/02	10:00 5/17/02
197265	North Area-10-12'	Soil	5/16/02	10:17 5/17/02
197266	North Area-15'-17'	Soil	5/16/02	10:42 5/17/02
197267	North Area-20-22'	Soil	5/16/02	11:25 5/17/02
197268	North Area-25-27'	Soil	5/16/02	12:20 5/17/02
197269	SW Area 5'	Soil	5/16/02	13:38 5/17/02
197270	SW Area 10'	-Soil	5/16/02	13:59 5/17/02
197271	SW Area 15'	Soil	5/16/02	14:13 5/17/02
197272	SW Area 20'	Soil	5/16/02	14:53 5/17/02
197273	SW Area 27'-28'	Soil	5/16/02	15:57 5/17/02

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

and the second	1	1	and the second	· · · · · ·		
	and the Registration	an an air	BTEX			TPH
	Benzene	Toluene	Ethylbenzene	M,P,O-Xylene	Total BTEX	TRPHC
Sample - Field Code	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
197262 - North Area-2'	<0.010	<0.010	<0.010	<0.010	< 0.010	9040
197263 - North Area-4'-6'	<0.010	<0.010	<0.010	0.016	0.016	8710
197264 - North Area-6-8'	<0.050	< 0.050	< 0.050	0.277	0.277	10900
197265 - North Area-10-12'	<0.100	<0.100	0.22	0.583	0.803	12900
197266 - North Area-15'-17'	0.0937	< 0.050	0.305	0.96	1.36	14900
197267 - North Area-20-22'	0.0723	<0.050	0.151	0.576	0.799	12700
197268 - North Area-25-27'	<0.100	<0.100	0.274	0.921	1.20	12600
197269 - SW Area 5'	0.111	<0.050	0.402	0.741	1.25	18800
197270 - SW Area 10'	0.179	<0.100	0.38	0.792	1.35	25400
197271 - SW Area 15'	0.12	< 0.100	0.432	0.672	1.22	13100
197272 - SW Area 20'	<0.010	<0.010	0.038	0.0155	0.0535	56.8
197273 - SW Area 27'-28'	<0.010	<0.010	<0.010	<0.010	<0.010	143

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

TraceAnalysis, Inc.

TraceAnalysis, Inc. 0701 Scitteen Ave., 50	ite 9 L	ubbock, T. 9424-1515	i (806) 79 4 -1296
Report Date: June 5, 2002Order Number: A02051716 N/A Maralo	، میں ر روز اور		Page Number: 2 of 3 Jay Anotheny Ranch
ample 197262 continued			
'aram Flag	Result		Units
Sample: 197262 - North Area-2'	€		
'aram Flag	Result		Units
hloride	2.66		mg/Kg
ample: 197263 - North Area-4'-6'			• • • • • • • • • • • • • • • • • • •
aram Flag	Result	an a	Units
hloride	3.12		mg/Kg
			•
			•
	· · ·		
ample: 197264 - North Area-6-8'			
aram Flag	Result		Units
hloride	7.56		mg/Kg
ample: 197265 - North Area-10-12'	Barul+		Ilnite
hlorida	5 97		mg/Kg
monde	0.01		
ample: 197266 - North Area-15'-17'			
iram Flag	Kesult		
TOLIGE	- 3.3/		mg/rsg
ample: 197267 - North Area-20-22'			
	Docult		Units
ram Flag	nesuit		
ram Flag lloride	18.1		mg/Kg
aram Flag iloride	18.1		mg/Kg
aram Flag iloride	18.1		mg/Kg
ram Flag iloride	18.1		mg/Kg
uram Flag North Area 25 27	18.1		mg/Kg
In Flag Noride Imple: 197268 - North Area-25-27'	18.1		mg/Kg
ample: 197268 - North Area-25-27' ram Flag	Result		mg/Kg Units
ample: 197268 - North Area-25-27' ram Flag loride	Result 66.9		mg/Kg Units mg/Kg

This is only a summary. Please, refer to the complete report package for quality control data.

N/A	Maralo		Jay Anotheny Rand
Sample:	197269 - SW Area 5'		
aram	Flag	Result	Units
Chloride		54.1	mg/Kg
a sere a a	and and the second s		<u> </u>
•	and a start of the		
ample:	197270 - SW Area 10' Flag	Result	Units
hloride		5.83	mg/Kg
ample:	197271 - SW Area 15' Flag	Regult	Tinite
hloride		<10.0	mg/Kg
	<u> </u>		B
· · · · · · · · · · · · · · · · · · · ·			
ample:	19/2/2 - Sw Area 20	D 1	
aram	r lag	Result	Units
		10.0	
hloride ample: 1	197273 - SW Area 27'-28'	10.2	mg/Kg
hloride ample: I aram hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg Units mg/Kg
hloride ample: 1 aram hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg Units mg/Kg
hloride ample: 1 aram aloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg Units mg/Kg
ample: I aram aloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units
hloride ample: 1 aram hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg
hloride ample: 1 aram hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg Units Kg
ample: 1 aram aloride	L97273 - SW Area 27'-28' Flag	10.2 Result 10.3	mg/Kg Units Kg
hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
hloride ample: 1 aram hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units Kg
hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
hloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
ample: 1 aram 1loride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
hloride	197273 - SW Area 27'-28' Flag	IO.2 Result 10.3	Units mg/Kg
hloride	197273 - SW Area 27'-28' Flag	I0.2 Result 10.3	Units mg/Kg
ample: 1 ample: 1 aram aloride	197273 - SW Area 27'-28' Flag	IO.2 Result 10.3	Units mg/Kg
hloride	197273 - SW Area 27'-28' Flag	IO.2 Result 10.3	Units mg/Kg
ample: 1 aram aloride	197273 - SW Area 27'-28' Flag	IO.2 Result IO.3	Units mg/Kg
ample: 1 aram aloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
ample: 1 aram aloride	197273 - SW Area 27'-28' Flag	10.2 Result 10.3	Units mg/Kg
ample: 1 uram uloride	197273 - SW Area 27'-28' Flag	Result 10.3	Units mg/Kg

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Warma Prica			en el 1 L'hours de la companya		Report Date:	June 5 2002
OCD			in the second		1000011 20000	0 une 0, 2002
1220 S. Saint Fran	cis Dr.	an an indiana an Ariana. An				
Santa Fe, NM 8750)5	an an 1917 - Anna Angela, An			Order ID Number:	A02051716
	e ata ang panganan ng Panganan. Pang			· · · · · ·	• • • • • • • • •	
Project Number:	N/A	na di si da si				
Project Name:	Maralo					
Project Location:	Jay Anotheny Ranch		and the second			· · ·

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

			Date	Time	Date
Jample	Description	Matrix	Taken	Taken	Received
197262	North Area-2'	Soil	5/16/02	9:29	5/17/02
.97263	North Area-4'-6'	Soil	5/16/02	9:49	5/17/02
.97264	North Area-6-8'	Soil	5/16/02	10:00	5/17/02
97265	North Area-10-12'	Soil	5/16/02	10:17	5/17/02
97266	North Area-15'-17'	Soil	5/16/02	10:42	5/17/02
97267	North Area-20-22'	Soil	5/16/02	11:25	5/17/02
97268	North Area-25-27'	Soil	5/16/02	12:20	5/17/02
97269	SW Area 5'	Soil	5/16/02	13:38	5/17/02
97270	SW Area 10'	Soil	5/16/02	13:59	5/17/02
97271	SW Area 15'	Soil	5/16/02	14:13	5/17/02
97272	SW Area 20'	Soil	5/16/02	14:53	5/17/02
97273	SW Area 27'-28'	Soil	5/16/02	15:57	5/17/02

hese results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch asis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. lote: the RDL is equal to MQL for all organic analytes including TPH. he test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

his report consists of a total of 18 pages and shall not be reproduced except in its entirety including the chain of custody JOC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Page 1 of 18

Report Date: June 5, 2002 N/A

Order Number: A02051716 Maralo

Analytical Report

Somple	197262	2 - North Area-	2,				
Analyzia	BTEX	Analytical Method	- S 8021B	OC Batch:	QC20528	Date Analyzed:	5/17/02
Analysis.	CG	Preparation Metho	nd S 5035	Pren Batcl	1: PB19598	Date Prepared:	5/17/02
Allalyse.	.00	I ICPARATION MICH		1 100 2000			
Param		Flag	Result	Units	Ľ	Dilution	RDL
Benzene			< 0.010	mg/Kg	n na state en se	10	0.001
Toluene			<0.010	mg/Kg	inter a state	10	0.001
Ethylbenze	ne		<0.010	mg/Kg		10	0.001
M,P,O-Xyl	ene		<0.010	mg/Kg	5	10	0.001
Total BTE	X		<0.010	mg/Kg	5	10	0.001
an an an an taon an saoine. Taon an taon an			a a geo a sec		en e		
			· · · ·	• •	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
TFT		0.846	mg/Kg	10	1	84	70 - 130
<u>4-BFB</u>	·	0.708	mg/Kg	10	1	70	70 - 130
and the second			· · · ·		5 - A 1	· .	
		en an	a a construction de la construcción de la construcción de la construcción de la construcción de la construcción Construcción de la construcción de l		a de la composición d		
Sample	107262	- North Area-	2,				
Analysis.	Ion Chron	atography (IC) Ang	e Intical Mathor	E 300 0 C	C Batch	C20761 Data Analy	med. 6/5/02
Analysis.		Dray	ayuca memor	Λ M/Λ E	ren Batch · Pl	R10700 Date Prone	72eu. 0/0/02
may su.	3011	1 I I I I I I I I I I I I I I I I I I I	paradion meen		top Daton. 11		100. 0/ 1 /02
Param	Flag	Result	Units	Dilution	an a		RDL
Chloride	I ICIE	2.66	mg/Kg	2	<u></u>	<u></u>	1
	• ••• ••••••••••••••••••••••••••••••••		6/116	_		<u></u>	
		e de la companya de l				•	
							• •
Sample:	197262	- North Area-2	2'				
Analysis:	TPH	Analytical Method:	E 418.1	QC Batch:	QC20561	Date Analyzed:	5/24/02
Analyst:	KM	Preparation Method	: N/A	Prep Batch:	PB19623	Date Prepared:	5/19/02
		e e e		•	:	•	
Param	F	lag Res	ult	Units	Dilutio	n	RDL
TRPHC		90	40	mg/Kg	100		10
		1					
Sam-1-	107000	Ntonth A	1.01	•			•
	19/203	- INORTH Area-4	E-D'		00000010		F 11 F 100
Analysis:	DIEA	Analytical Method:	5 8021B	QU Batch:	QC20519	Date Analyzed:	5/17/02
malyst:	UG	rreparation Metho	a: 5 5035	Frep Batch	LR18281	Date Prepared:	5/17/02
Param		Flag	Result	Unita	'n	lution	RDI.
Benzene		± <u></u> 5	<0.010			10	0.001
Toluene		•		mg/Kg		10	0.001
Ethylbenzer	ne	· ·		mg/Kg		10	0.001
M.P.O-Xvle	ne	$\mathcal{A}_{i} = \{i_{i}, \dots, i_{n}\}$	0.016	mg/Kg	1.11	10	0.001
Total BTEX			0.016	mg/ng		10	0.001
	-		0.010	mg/rg		TO 1	0.001

	ar Ar tha go an	4 002	Urder N	Maralo	51716		Jay A	notheny Ranch
						Snike	Percent	Recovery
Sumorata	Flag	Result	Units	Dilution		Amount	Recovery	Limits
Surrogate		0.897	mg/Kg	10		1	89	70 - 130
	· .	0.201		10		1	74	70 - 130
<u>4-BFB</u>		0.130	mg/1xg	10				10-100
Samplet	107263	- North Ar	ea-4'-6'					
Sample.	Ion Chron	estography (IC)	Analytical Metho	d. E 300 0		Retch	OC20761 Date An	alvzed• 6/5/02
Analysis.		Triography (10)	Preparation Meth	a. $\underline{N}/\underline{A}$	Pran	Botch.	PR10700 Date Pro	range red: 6/0/02
Analyst:	35.44		I TEDUTORIOTI MICH	iou. Iyr	ттер	DOWN.	1 D19190 Dave 1 10	pared. 0/4/02
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	~ 1	TT •.		•	· '		
Param	Flag	Result	Units	Dilutio	on		1	RDL
Chloride		3.12	mg/Kg	2		in e		1
		a sanggan generalis. Tanggan generalis				· · ·	an an Araba an Araba an Araba an Araba Araba an Araba an Araba an Araba Araba an Araba an Araba	
Sample:	197263	- North Ar	ea-4'-0'		dia a			
Analysis:	TPH	Analytical Meth	nod: $E 418.1$	QC Batch	: Q	C20561	Date Analyzed	: 5/24/02
Analyst:	KM	Preparation Me	thod: N/A	Prep Batc	$h: \mathbf{P}$	B19623	Date Prepared	: 5/19/02
		•	D	TTulta	•	. Dit	4 •	PDI
Param	F	18g	Result	Units		Dilu	tion	
Sample:	197264	- North Are	ea-6-8'					
Sample: Analysis:	197264 BTEX	- North Are Analytical Met	e a-6-8' hod: S 8021B	QC Batch	a: C	QC20528	Date Analyzed	l: 5/17/02
Sample: Analysis: Analyst:	197264 BTEX CG	- North Are Analytical Met Preparation Me	e a-6-8' hod: S 8021B ethod: S 5035	QC Batch Prep Bate	h: C ch: F	QC20528 PB19598	Date Analyzed Date Prepared	l: 5/17/02 : 5/17/02
Sample: Analysis: Analyst: Param	197264 BTEX CG	- North Are Analytical Met Preparation Me	e a-6-8' hod: S 8021B ethod: S 5035 Result	QC Batch Prep Bate Un	h: C ch: F its	QC20528 PB19598	Date Analyzed Date Prepared Dilution	l: 5/17/02 : 5/17/02 RDL
Sample: Analysis: Analyst: Param	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B sthod: S 5035 Result <0.050	QC Batch Prep Bate Un	h: C ch: F its	QC20528 PB19598	Date Analyzed Date Prepared Dilution	l: 5/17/02 : 5/17/02 RDL
Sample: Analysis: Analyst: Param Benzene	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050	QC Batch Prep Bate Un mg/	h: C ch: F its Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50	l: 5/17/02 : 5/17/02 RDL 0.001
Sample: Analysis: Analyst: Param Benzene Foluene	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050	QC Batch Prep Bate Un mg/ mg/	n: C ch: F its 'Kg 'Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50	l: 5/17/02 : 5/17/02 RDL 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Ethylbenzene	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 <0.050	QC Batch Prep Bate Un mg/ mg/	h: C ch: F its 'Kg 'Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50 50	l: 5/17/02 : 5/17/02 RDL 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Ethylbenzene M,P,O-Xylen	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277	QC Batch Prep Bate Un mg/ mg/ mg/	h: C ch: F its /Kg /Kg /Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50 50 50	l: 5/17/02 : 5/17/02 RDL 0.001 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX	197264 BTEX CG	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 0.277 0.277	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/	h: C ch: F its 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50 50 50 50	l: 5/17/02 : 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commen	197264 BTEX CG e he	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 <0.050 0.277 0.277 *	QC Batch Prep Bato Un mg/ mg/ mg/ mg/ mg/ mg/ mg/ mg/ mg/	h: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50 50 50 50 1	l: 5/17/02 : 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commer	197264 BTEX CG e e nts	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 0.277 0.277 *	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ mg/	h: C ch: F its /Kg /Kg /Kg /Kg /Kg /Kg /Kg	QC20528 2B19598	Date Analyzed Date Prepared Dilution 50 50 50 50 50 50 1	l: 5/17/02 : 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commen	197264 BTEX CG e he nts	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 <0.050 0.277 0.277 *	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ mg/	h: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 2B19598	Date Analyzed Date Prepared Dilution 50 50 50 50 50 1 Percent	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commen	197264 BTEX CG e he nts	- North Are Analytical Met Preparation Me Flag	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 <0.050 0.277 0.277 *	QC Batch Prep Bata Un mg/ mg/ mg/ mg/ mg/	n: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598	Date Analyzed Date Prepared Dilution 50 50 50 50 50 1 Percent	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001
Sample: Analysis: Analysis: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commen	197264 BTEX CG e he nts	- North Are Analytical Met Preparation Me Flag 1 Result	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277 0.277 *	QC Batch Prep Bato Un mg/ mg/ mg/ mg/ mg/ Dilution	n: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598 Spike	Date Analyzed Date Prepared Dilution 50 50 50 50 1 Percent Recovery	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 Recovery Limits
Sample: Analysis: Analyst: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Iotal BTEX Iest Commen Lest Commen Lurrogate	197264 BTEX CG e he nts Flag	- North Are Analytical Met Preparation Me Flag 1 Result 0.747	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277 0.277 * Units mg/Kg	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ Dilution 50	n: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598 Spike Amount 1	Date Analyzed Date Prepared Dilution 50 50 50 50 50 1 Percent Recovery 74	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 Recovery Limits 70 - 130
Sample: Analysis: Analyst: Param Benzene Foluene Ethylbenzene M,P,O-Xylen Fotal BTEX Fest Commen Surrogate	197264 BTEX CG e he flag	- North Are Analytical Met Preparation Me Flag 1 Result 0.747	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277 0.277 * Units mg/Kg	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ Dilution 50	h: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598 Spike Amount 1	Date Analyzed Date Prepared Dilution 50 50 50 50 1 Percent Recovery 74	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 Recovery Limits 70 - 130
Sample: Analysis: Analysis: Param Benzene Foluene Ethylbenzene M,P,O-Xylen Total BTEX Test Commen Surrogate IFT	197264 BTEX CG e nts Flag 197264	 North Are Analytical Met Preparation Met Flag 1 Result 0.747 North Are 	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277 0.277 * Units mg/Kg	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ Dilution 50	h: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598 Spike Amount 1	Date Analyzed Date Prepared Dilution 50 50 50 50 1 Percent Recovery 74	l: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 Recovery Limits 70 - 130
Sample: Analysis: Analysis: Param Benzene Foluene Ethylbenzene M,P,O-Xylen Total BTEX Test Commen Surrogate IFT	197264 BTEX CG nts Flag 197264 Ion Chrom	- North Are Analytical Met Preparation Me Flag 1 Result 0.747 - North Are atography (IC) A	ea-6-8' hod: S 8021B ethod: S 5035 <u>Result</u> <0.050 <0.050 <0.050 0.277 0.277 * <u>Units</u> mg/Kg ea-6-8' Analytical Method Preparation Method	QC Batch Prep Bat Un mg/ mg/ mg/ mg/ mg/ cod: N/A	a: C ch: F its 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg 'Kg	QC20528 PB19598 Spike Amount 1 atch: Batch:	Date Analyzed Date Prepared Dilution 50 50 50 50 1 Percent Recovery 74 QC20761 Date Ana PB19790 Date Prep	l: 5/17/02 S/17/02 RDL 0.001 0.00
Sample: Analysis: Analysis: Param Benzene Foluene Sthylbenzene M,P,O-Xylen Fotal BTEX Test Commen Surrogate FFT Sample: unalysis: 1 unalysis: 1 unalysis: 1 unalysis: 1	197264 BTEX CG e he nts Flag 197264 Ion Chrom JSW Flag	- North Are Analytical Met Preparation Me Flag 1 Result 0.747 - North Are atography (IC) A H Result	ea-6-8' hod: S 8021B ethod: S 5035 Result <0.050 <0.050 <0.050 0.277 0.277 * Units mg/Kg a-6-8' Analytical Method Preparation Method Units	QC Batch Prep Bata Un mg/ mg/ mg/ mg/ definition 50	a: C ch: F its /Kg /Kg /Kg /Kg /Kg /Kg /Rg /Rg /Rg /Rg /Rg /Rg /Rg /Rg	2C20528 PB19598 Spike Amount 1 atch: Batch:	Date Analyzed Date Prepared Dilution 50 50 50 50 1 Percent Recovery 74 QC20761 Date Ana PB19790 Date Prep	l: 5/17/02 S/17/02 RDL 0.001 0.00

14.29

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¹Sample diluted due to hydrocarbons beyond xylene. Sample has a Benzene concentration of 0.0318 which is lower than the RDL but reater than the MDL of 0.01183.

**/		2002	Order N	lumber: A0205 Maralo	51716	Page Nu Jay An	umber: 4 of 18 otheny Ranch
Sample:	197264	4 - North Area	-6-8'		al eta da era era		
Analysis	трн	Analytical Method	E 418.1	OC Batch	OC20561	Date Analyzed:	5/24/02
Analyst:	KM	Preparation Metho	od: N/A	Prep Batcl	h: PB19623	Date Prepared:	5/19/02
Denemi	1	Flag B		Unito	line and the	ition	BUL
TRPHC		10 10 10 10	0900	mg/Kg		80	1000
							······································
•	•					;	
Sample	10726	5 - North Area	-10-12				
Sample:	DTEV	And International Metho	-IU-IZ J. C 0001D	OC Patak		Data Analymadi	5/17/09
Analysis:	DIEA	Duenovskien Metho	U. 5 6021D	QU Datch	$L = Q \cup 20020$	Date Analyzeu.	5/17/02
Analyst:	CG	Preparation Meth	100: 2 2022	Prep Bato	:П: Г. Б.19990	Date Frepared:	
Param		Flag	Result	Uni	its	Dilution	RDL
Benzene			< 0.100	mg/	Kg	100	0.001
Toluene	•		< 0.100		8 Kø	100	0.001
Ethylbenzer	ne		0.22		Kø	100	0.001
M P O-Xvle	ne		0.583	6/ mg/	Ko	100	0.001
Total BTE	x		0.803		Ka	100	0.001
Test Comm	onte	2	*	mg/	мъ Ка	1	
		······				<u></u>	
		· · ·	•		· · · ·		
			· · · · · ·		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
<u>rfr</u>	a tanàn amin'ny faritr'i Angele	0.963	mg/Kg	100	1	96	70 - 130
4-BFB	3. 	2.24	mg/Kg	50	1	224	70 - 130
•			, total and an				
							•
ni se com		1				and the second	
Sample:	197265	- North Area-	10-12'	17.1.1 M			
Sample: Analysis:	197265 Ion Chron	- North Area- natography (IC) An	•10-12' alvtical Method	d: E 300.0 (OC Batch:	QC20761 Date Analy	zed: 6/5/02
Sample: Analysis: Analyst:	197265 Ion Chron JSW	- North Area- natography (IC) An Pre	• 10-12' alytical Metho paration Meth	d: E 300.0 (od: N/A 1	QC Batch: Prep Batch:	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 wred: 6/4/02
Sample: Analysis: Analyst:	197265 Ion Chrom JSW	- North Area- natography (IC) An Pre	10-12' alytical Method paration Meth	d: E 300.0 (od: N/A]	QC Batch: Prep Batch:	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 ared: 6/4/02
Sample: Analysis: Analyst: Param	197265 Ion Chron JSW Flag	- North Area- natography (IC) An Pre Result	10-12' alytical Metho paration Meth Units	d: E 300.0 od: N/A Dilutior	QC Batch: Prep Batch: 1	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 ared: 6/4/02 RDL
Sample: Analysis: Analyst: Param Chloride	197265 Ion Chron JSW Flag	- North Area- natography (IC) An Pre Result 5.87	10-12' alytical Method paration Meth Units mg/Kg	d: E 300.0 od: N/A Dilution 5	QC Batch: Prep Batch: 1	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 ured: 6/4/02 RDL 1
Sample: Analysis: Analyst: Param Chloride	197265 Ion Chron JSW Flag	- North Area- natography (IC) An Pre Result 5.87	10-12' alytical Method paration Meth Units mg/Kg	d: E 300.0 (od: N/A Dilution 5	QC Batch: Prep Batch: 1	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 ared: 6/4/02 RDL 1
Sample: Analysis: Analyst: Param Chloride	197265 Ion Chron JSW Flag	- North Area- natography (IC) An Pre Result 5.87	10-12' alytical Method paration Meth Units mg/Kg	d: E 300.0 od: N/A Dilution	QC Batch: Prep Batch: 1	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 pred: 6/4/02 RDL 1
Sample: Analysis: Analyst: Param Chloride Sample:	197265 Ion Chron JSW Flag 197265	- North Area- natography (IC) An Pre Result 5.87	10-12' alytical Method paration Meth Units mg/Kg 10-12'	d: E 300.0 od: N/A Dilution	QC Batch: Prep Batch:	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 wred: 6/4/02 RDL 1
Sample: Analysis: Analyst: Param Chloride Sample: Analysis:	197265 Ion Chron JSW Flag 197265 TPH	- North Area- natography (IC) An Pre Result 5.87 - North Area- Analytical Method:	10-12' alytical Method sparation Meth Units mg/Kg 10-12' E 418.1	d: E 300.0 od: N/A Dilution 5	QC Batch: Prep Batch: 1 OC20561	QC20761 Date Analy PB19790 Date Prepa	vzed: 6/5/02 ured: 6/4/02 RDL 1 5/24/02
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analysis:	197265 Ion Chron JSW Flag 197265 TPH KM	- North Area- hatography (IC) An Pre Result 5.87 - North Area- Analytical Method: Preparation Method	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch:	QC Batch: Prep Batch: 1 QC20561 PB19623	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared:	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst:	197265 Ion Chron JSW Flag 197265 TPH KM	 North Area- natography (IC) An Pre- Result 87 North Area- Analytical Method: Preparation Method 	10-12' alytical Method paration Meth <u>Units</u> mg/Kg 10-12' E 418.1 d: N/A	d: E 300.0 od: N/A Dilution 5 QC Batch: Prep Batch:	QC Batch: Prep Batch: 1 QC20561 PB19623	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared:	7zed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analysis: Analyst: Param	197265 Ion Chron JSW Flag 197265 TPH KM	- North Area- hatography (IC) An Pre Result 5.87 - North Area- Analytical Method: Preparation Method lag Res	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared: ion	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param CRPHC	197265 Ion Chron JSW Flag 197265 TPH KM	- North Area- hatography (IC) An Pre Result 5.87 - North Area- Analytical Method: Preparation Method: lag Res 12	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult 900	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared:	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param TRPHC	197265 Ion Chron JSW Flag 197265 TPH KM	North Area- hatography (IC) An Pre- Result 5.87 North Area- Analytical Method: Preparation Method: lag Result 12:	10-12' alytical Method oparation Meth <u>Units</u> mg/Kg 10-12' E 418.1 d: N/A sult 900	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut 30	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared: ion	vzed: 6/5/02 pred: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param TRPHC	197265 Ion Chron JSW Flag 197265 TPH KM	- North Area- hatography (IC) An Pre- Result 5.87 - North Area- Analytical Method: Preparation Method lag Res 12:	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult 900	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut 30	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared:	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param TRPHC Sample:	197265 Ion Chron JSW Flag 197265 TPH KM F 197266	- North Area- Result 5.87 - North Area- Analytical Method: Preparation Method: lag Result 12: - North Area-	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult 900 15'-17'	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut 30	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared: ion	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param TRPHC Sample: Analysis:	197265 Ion Chron JSW Flag 197265 TPH KM F 197266 BTEX	- North Area- Result Result 5.87 - North Area- Analytical Method: Preparation Method: lag Result 12 - North Area- Analytical Method	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult 900 15'-17' : S 8021B	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg QC Batch:	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut 30 QC20528	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared:	vzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02
Sample: Analysis: Analyst: Param Chloride Sample: Analysis: Analyst: Param TRPHC Sample: analysis: analysis: analysis: analysis:	197265 Ion Chron JSW Flag 197265 TPH KM F 197266 BTEX CG	- North Area- Result Result 5.87 - North Area- Analytical Method: Preparation Method lag Res 125 - North Area- Analytical Method Preparation Method	10-12' alytical Method paration Meth Units mg/Kg 10-12' E 418.1 d: N/A sult 900 15'-17' : S 8021B od: S 5035	d: E 300.0 (od: N/A Dilution 5 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch	QC Batch: Prep Batch: 1 QC20561 PB19623 Dilut 30 QC20528 1: PB19598	QC20761 Date Analy PB19790 Date Prepa Date Analyzed: Date Prepared: ion	vzed: 6/5/02 red: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 5/17/02

78. P

14.5

²Sample diluted due to hydrocarbons beyond xylene. Sample has a Benzene concentration of 0.0202 which is lower than the RDL but greater than the MDL of 0.0237. ³High surrogate recovery due to peak interference.

N/A.	· · ·						
Param		Flag	Result	Units		Dilution	RDL
Benzene	•••	A CARLES AND A CARL	0.0937	mg/Kg		50	0.001
Foluene	n din generation and an		< 0.050	mg/Kg		50	0.001
Cthylhenzene			0.305	mg/Kg		50	0.001
A P O Xvlene			0.96	mg/Kg		50	0.001
Total BTEX	•	· · · · ·	1.36	mg/Kg		50	0.001
	• •	·					
a na sa					Spike	Percent	Recoverv
urrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
TT	<u>v</u>	0.9	mg/Kg	50	1	90	70 - 130
-BFB	4	3.32	mg/Kg	100	1	332	70 - 130
ample: 1	97266	- North A	rea-15'-17'		ш <u>қ.</u> 1	n an Salan an Salan An Salan An Salan Tarihi da Salan An Salan Ing	
nalysis: Ion nalyst: JS	n Chron W	natography (IC) Analytical Meth Preparation Me	10d: E 300.0 Q thod: N/A P	C Batch: rep Batch:	QC20761 Date Anal PB19790 Date Prep	yzed: 6/5/02 ared: 6/4/02
aram	Flag	Result	Units	Dilution			RDL
hlorida							
ample: 1 nalysis: TP	97266 °H	3.37 - North An Analytical Met	mg/Kg cea-15'-17' hod: E 418.1	2 QC Batch:	QC20561	Date Analyzed:	1 5/24/02
ample: 1 nalysis: TP nalyst: KN aram	97266 PH M F	3.37 - North An Analytical Met Preparation Me lag	mg/Kg cea-15'-17' hod: E 418.1 ethod: N/A Result	2 QC Batch: Prep Batch: Units	QC20561 PB19623 Dilut	Date Analyzed: Date Prepared: tion	1 5/24/02 5/19/02 RDL
ample: 1 nalysis: TF nalyst: KN aram RPHC	97266 PH M F	3.37 - North An Analytical Met Preparation Me lag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900	2 QC Batch: Prep Batch: Units mg/Kg	QC20561 PB19623 Dilut	Date Analyzed: Date Prepared: tion	1 5/24/02 5/19/02 RDL 10
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19	97266 PH 4 F 97267	3.37 - North An Analytical Met Preparation Me lag - North Ar	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900	2 QC Batch: Prep Batch: Units mg/Kg	QC20561 PB19623 Dilut 30	Date Analyzed: Date Prepared: tion	1 5/24/02 5/19/02 RDL 10
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: CG	97266 PH M 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B lethod: S 5035	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch:	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared:	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: CG ram	97266 PH M 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation M Flag	mg/Kg cea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B fethod: S 5035 Result	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Prep Batch: Units	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared: Dilution	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalysis: CG uram	97266 PH M 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B fethod: S 5035 Result 0.0723	2 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared: Dilution 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001
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ample: 1 nalysis: TP nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalyst: CG uram anzene bluene hylbenzene	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B fethod: S 5035 Result 0.0723 <0.050 0.151	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared: Dilution 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalyst: CG tram enzene bluene hylbenzene ,P,O-Xylene	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B lethod: S 5035 Result 0.0723 <0.050 0.151 0.576	2 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion Date Analyzed: Date Prepared: Dilution 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001
ample: 1 nalysis: TF nalyst: KM aram RPHC ample: 19 nalysis: BT nalysis: BT nalysis: CG aram enzene oluene hylbenzene ,P,O-Xylene otal BTEX	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation M Flag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B lethod: S 5035 Result 0.0723 <0.050 0.151 0.576 0.799	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared: Dilution 50 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalysis: CG aram enzene oluene hylbenzene ,P,O-Xylene otal BTEX	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation M Flag	mg/Kg rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B lethod: S 5035 Result 0.0723 <0.050 0.151 0.576 0.799	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598	Date Analyzed: Date Prepared: tion) Date Analyzed: Date Prepared: Dilution 50 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
ample: 1 nalysis: TP nalysis: TP nalyst: KM aram RPHC ample: 1! nalysis: BT nalysis: BT nalysis: CG aram enzene bluene hylbenzene ,P,O-Xylene otal BTEX	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag	rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B fethod: S 5035 Result 0.0723 <0.050 0.151 0.576 0.799	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598 Spike	Date Analyzed: Date Prepared: tion Date Analyzed: Date Prepared: Dilution 50 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
ample: 1 nalysis: TP nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalyst: CG tram mene hylbenzene ,P,O-Xylene tal BTEX	97266 PH 4 97267 EX	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag Result	rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B fethod: S 5035 Result 0.0723 <0.050 0.151 0.576 0.799 Units	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598 Spike Amount	Date Analyzed: Date Prepared: tion Date Analyzed: Date Prepared: Dilution 50 50 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
ample: 1 nalysis: TF nalyst: KN aram RPHC ample: 19 nalysis: BT nalysis: BT nalyst: CG uram nalyst: CG uram nazene bluene hylbenzene ,P,O-Xylene tal BTEX	97266 PH 4 97267 EX 5	3.37 - North An Analytical Met Preparation Me lag - North Ar Analytical Me Preparation Me Flag Result 0.506	rea-15'-17' hod: E 418.1 ethod: N/A Result 14900 rea-20-22' thod: S 8021B lethod: S 5035 Result 0.0723 <0.050 0.151 0.576 0.799 Units mg/Kg	QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20561 PB19623 Dilut 30 QC20528 PB19598 Spike Amount 1	Date Analyzed: Date Prepared: tion Date Analyzed: Date Prepared: Dilution 50 50 50 50 50 50 50 50 50	1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 RDL 0.001

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^{-High} surrogate recovery due to peak interference. ⁵Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control. ⁶High surrogate recovery due to peak interference.

Sample:	197267	- North Area	-20-22'	1		000701 D.+-	
nalysis:	Ion Chror	natography (IC) Ai	nalytical Metho	od: E 300.0 Q	C Batch:	QC20761 Date A	1 a a yzed: 6/5/02
nalyst:	JSW	Pr	eparation Met	nod: N/A P	rep Batch:	PB19/90 Date 1	repared: 0/4/02
	Flor	Desult	TInita	Dilution	· · · · · · ·		BDI
'aram	T. 198	18.1	mg/Kg	2			1
moride			iiig/ixg	<u> </u>			
	1999 - 1999 -						· · · ·
an sa ta	nge stander			NY NE REALER			
ample:	197267	- North Area	-20-22'				
nalysis:	TPH	Analytical Method	E 418.1	QC Batch:	QC20561	Date Analyz	ed: $5/24/02$
nalyst:	KM	Preparation Metho	od: N/A	Prep Batch:	PB19623	Date Prepare	ed: 5/19/02
an t Marine an an An	n an the second seco	ng the second			The second se	4 1.4 4 1.4 4 1.4	זרות
aram	F	lag Re					
RPHC		ل ا	6700	mg/Kg	<u> </u>	<u>U</u>	
			i e te i				· . · ·
				and a start of the second s	. * *	· · · · · · · · · · · · · · · · · · ·	i stranica de la secola de la se
ample:	197268	- North Area	-25-27'	and the second second			
nalysis:	BTEX	Analytical Metho	d: S 8021B	QC Batch:	QC20528	Date Analyz	ed: 5/17/02
nalyst:	CG	Preparation Meth	od: S 5035	Prep Batch:	PB19598	Date Prepar	ed: 5/17/02
aram		Flag	Result	Units		Dilution	RDL
enzene			<0.100	mg/K	g	100	0.001
oluene		and the second	<0.100	mg/K	5	100	0.001
	້	an a	0.274	mg/Ki	5	100	0.001
otal BTEX			1.20	mg/K	D T	100	0.001
est Comme	nts	7	*	mg/K_{f}	g g	1	
	······································						
1	· * , *			· · · ·	Spike	Percent	Recovery
urrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
FT.	. O	0.557	mg/Kg	100	1	55	70 - 130
BrB		3.19	mg/Kg	50	<u> </u>	319	70 - 130
ang berge			an internation	ta series de la			
				•		· ·	· · ·
ample:	197268	- North Area-	25-27'				
nalysis:	Ion Chrom	atography (IC) An	alytical Metho	d: E 300.0 QC	C Batch:	QC20761 Date A	nalyzed: 6/5/02
nalyst:	JSW	Pre	paration Meth	od: N/A Pr	ep Batch:	PB19790 Date Pi	repared: $6/4/02$
	· ·						
aram	Flag	Result	Units	Dilution	<u> </u>		RDL
nonge		66.9	mg/Kg	5			1
÷ 1.1				· :	· · ·		
			· · ·	4 M			
ample:	197268	- North Area-	25-27'	· · ·		ning and an and an	· · · · · · · · ·
nalysis:	ГРН .	Analytical Method:	E 418.1	QC Batch:	QC20561	Date Analyzed	l: 5/24/02

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⁷Sample diluted due to hydrocarbons beyond xylene. Sample has a Benzene concentration of 0.0801 which is lower than the RDL but greater than the MDL of 0.02366. ⁸Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control. ⁹High surrogate recovery due to peak interference.

Report Date: June 5, 2002	Order Number: A02051716	Page Number: 7 of 18
N/A.	Maralo	Jay Anotheny Ranch

Param	Flag	Result	Units		Dilution	 در در <u>در</u>	RDL
TRPHC	· · · ·	12600	mg/Kg		30	•	10
				a service a service servic		1.1.1	,

197269 - SW Area 5' Sample:

Analysis: Analyst:	BTEX CG	Analytical Method Preparation Metho	: S 8021B d: S 5035	QC Batch: Prep Batch:	QC20528 PB19598	Date Date	Analyzed: Prepared:	5/17/02 5/17/02
Param	alatina di Reference	Flag	Result	Units		Dilution		RDL
Benzene	·····		0.111	mg/Kg		50		0.001
Toluene			<0.050	mg/Kg		50		0.001
Ethylbenzer	ie	الات المرتكين المساحة م الوالية	0.402	mg/Kg		50	n dan salah sing di kasa Karangan	0.001
M,P,O-Xyle	ne		0.741	mg/Kg		50		0.001
Total BTE	C i	· ·	1.25	mg/Kg		50		0.001

	Sec. Strategy		an a tata a		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
TFT	10	0.381	mg/Kg	50	1	38	70 - 130
4-BFB	11	3.07	mg/Kg	100	1	307	70 - 130

Sample: 197269 - SW Area 5'

Analysis: Analyst:	Ion Chromatog JSW	raphy (IC) An Pr	alytical Method: eparation Method:	E 300.0 QC N/A Pre	Batch: p Batch:	QC20761 PB19790	Date Analyzed Date Prepared:	6/5/02 6/4/02
Param	Flag	Result	Units	Dilution				RDL
Chloride		54.1	mg/Kg	50	• • •		······································	1

197269 - SW Area 5' Sample:

Analysis: Analyst:	TPH Ana KM Prej	lytical Method: paration Method:	E 418.1 N/A	QC Batch: Prep Batch:	QC20561 PB19623	Date Analyzed: Date Prepared:	5/24/02 5/19/02
Param	Flag	Result	•	Units	Dilution		RDL
TRPHC	·	18800		mg/Kg	30		10
· · ·							. .

Sample: Inalysis:	197270 BTEX	- SW Ar Analytical I	ea 10' Method: S 8021B	QC Batch:	QC20528 Date Analyzed:	5/17/02
maryst:	UG -	Preparation	Method: 5 5035	Prep Batch:	PB19598 Date Prepared:	5/17/02
'aram		Flag	Result	Units	Dilution	RDL
lenzene	•		0.179	mg/Kg	100	0.001
oluene			<0.100	mg/Kg	100	0.001
thylbenzene	Э.	· ·	0.38	mg/Kg	100	0.001
1,P,O-Xylen	e		0.792	mg/Kg	100	0.001
otal BTEX	·		1.35	mg/Kg	100	0.001

¹⁰Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control. ¹¹High surrogate recovery due to peak interference.

N/A	it to be a						
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amoun	t Recovery	Limits
TFT	12	0.463	mg/Kg	100	1	46	70 - 130
4-BFB	13	3.09	mg/Kg	50	1		70 - 130
				a di sente di secondo d Secondo di secondo di se	a e e	· · · · · · · · · · · · · · · · · · ·	
				ارد. المحاج المراجعين المحمول المحمول			
Sample	107970	- SW Ares	107				est in the
Sample:	Ion Chron	netography (IC	Analytical Meth	nd E 300 0.0	C Batch	OC20761 Date An	alvzed: 6/5/02
Analysis.	ISW	natography (10	Preparation Met	hod: N/A 1	rep Batch:	PB19790 Date Pro	epared: $6/4/02$
Allalyso.	0044	n vine of the Robert Robert Robert					
Param	Flag	Result	Units	Dilution			RDL
Chloride		5.83	mg/Kg	5		*	1
				en e			
in the second	۱۹۹۹ و دسی ۲۰۱۰ درد. مربیط بردیشند و	and a second	· · · · · · · · · · · · · · · · · · ·	بهد مید بید او ر		and a second	
Sample:	197270	- SW Area	a 10'	· · ·		a a ser a	
Analysis:	TPH	Analytical Me	thod: E 418.1	QC Batch:	QC20562	Date Analyzed	
Analyst:	KM	Preparation M	ethod: N/A	Prep Batch:	PB19623	Date Prepared	: 5/19/02
. 957		N	D	TT •	D 1	•	חסר
Param	-	18.0	Kesuit	Units	Dili	ution	RDL
OD DITA			05400	177		10	10
TRPHC			25400	mg/Kg		30	10
TRPHC			25400	mg/Kg		30	10
TRPHC Sample:	197271	- SW Area	25400	mg/Kg		30	10
TRPHC Sample: Analysis:	197271 BTEX	- SW Area Analytical Me	25400 1 15' ethod: S 8021B	mg/Kg QC Batch:	QC20528	30 3 Date Analyzed	10 1: 5/17/02
TRPHC Sample: Analysis: Analyst:	197271 BTEX CG	- SW Area Analytical Me Preparation M	25400 15' 25hod: S 8021B Aethod: S 5035	mg/Kg QC Batch: Prep Batch	QC20528 : PB19598	30 B Date Analyzed Date Prepared	10 1: 5/17/02 1: 5/17/02
TRPHC Sample: Analysis: Analyst: Param	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 1 15' 2thod: S 8021B Aethod: S 5035 Result	mg/Kg QC Batch: Prep Batch Units	QC20528 : PB19598	30 B Date Analyzed Date Prepared Dilution	10 1: 5/17/02 1: 5/17/02 RDL
TRPHC Sample: Analysis: Analyst: Param Benzene	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 25400 25400 25400 S 8021B Jethod: S 8021B Jethod: S 5035 Result 0.12	mg/Kg QC Batch: Prep Batch Units mg/Kg	QC20528 : PB19598	30 B Date Analyzed Date Prepared Dilution 100	10 4: 5/17/02 1: 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene	197271 BTEX CG	- SW Area Analytical Ma Preparation M Flag	25400 25400 25400 25400 S 8021B Aethod: S 8021B Aethod: S 5035 Result 0.12 <0.100	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg	QC20528 : PB19598	30 B Date Analyzed Date Prepared Dilution 100 100	10 1: 5/17/02 1: 5/17/02 RDL 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 25400 25400 25400: S 8021B Aethod: S 5035 <u>Result</u> 0.12 <0.100 0.432	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg	QC20528 PB19598	30 B Date Analyzed Date Prepared Dilution 100 100 100	10 1: 5/17/02 1: 5/17/02 RDL 0.001 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 25400 15' 25hod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 PB19598	30 B Date Analyzed Date Prepared Dilution 100 100 100 100	10 4: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2	197271 BTEX CG ne	- SW Area Analytical Me Preparation M Flag	25400 25400 1 15' 2thod: S 8021B 4ethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 : PB19598	30 B Date Analyzed Date Prepared Dilution 100 100 100 100 100	10 1: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 PB19598	30 30 30 30 30 30 50 50 50 50 50 50 50 50 50 5	10 1: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzen M,P,O-Xyle Total BTE2	197271 BTEX CG Ωe	- SW Area Analytical Me Preparation M Flag	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 PB19598	30 B Date Analyzed Date Prepared Dilution 100 100 100 100	10 10 10 10 10 10 10 10 10 10
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzen M,P,O-Xyle Total BTEX	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag	25400 25400 1 15' 2thod: S 8021B 4ethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 PB19598	30 30 30 30 30 30 50 50 50 50 50 50 50 50 50 5	10 1: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2	197271 BTEX CG	- SW Area Analytical Me Preparation M Flag Result	25400 25400 15' 25400 15' 25400 15' 25400 15' 25400 10' 12' 20.100 0.432 0.672 1.22 Units	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	QC20528 PB19598 Spike Amount	30 30 30 30 30 30 30 50 50 50 50 50 50 50 50 50 5	10 1: 5/17/02 5/17/02 RDL 0.001 0.001 0.001 0.001 0.001 0.001 Recovery Limits 70 100
TRPHC Sample: Analysis: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2 Surrogate	197271 BTEX CG me K Flag 14	- SW Area Analytical Me Preparation M Flag Result 0.661	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 100	QC20528 PB19598 Spike Amount 1	30 30 30 30 30 30 30 30 50 50 50 50 50 50 50 50 50 5	10 1: 5/17/02 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzen M,P,O-Xyle Total BTE2 Surrogate FFT 4-BFB	197271 BTEX CG me Σ Flag 14 15	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 100 100	QC20528 PB19598 Spike Amount 1 1	30 30 30 30 30 30 30 30 30 30	10 10 10 10 10 10 10 10 10 10
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzen M,P,O-Xyle Total BTE2 Surrogate FFT 4-BFB	197271 BTEX CG me C Flag 14 15	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 100 100	QC20528 PB19598 Spike Amount 1 1	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2 Surrogate TFT +BFB	197271 BTEX CG ne me K Flag 14 15	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33	25400 25400 15' 25400 15' 25400 15' 25400 15' 25400 15' 25400 15' 25400 15' 25400 15' 25400 15' 100 100 100 100 100 100 100 10	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 100 100	QC20528 PB19598 Spike Amount 1 1	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2 Surrogate TFT 4-BFB	197271 BTEX CG ne Σ Γlag 14 15 197271	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33 - SW Area	25400 25400 1 15' 2thod: S 8021B Aethod: S 5035 Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg mg/Kg	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg 0100	QC20528 PB19598 Spike Amount 1 1	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2 Surrogate FFT 4-BFB Sample: Analysis:	197271 BTEX CG me κ Γlag 14 15 197271 Ion Chrom	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33 - SW Area atography (IC)	25400 25400 1 15' 25400 1 15' Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg 15' Analytical Metho	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg d: E 300.0 O	QC20528 PB19598 Spike Amount 1 1 C Batch:	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001 0.002 0.001 0.002
TRPHC Sample: Analysis: Analysis: Analyst: Param Benzene Toluene Ethylbenzes M,P,O-Xyle Total BTE2 Surrogate FFT 4-BFB Sample: Analysis: Analyst:	197271 BTEX CG me flag 14 15 197271 Ion Chrom JSW	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33 - SW Area atography (IC)	25400 25400 1 15' 25400 1 15' Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg 15' Analytical Methor Preparation Meth	QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg d: E 300.0 Q od: N/A P	QC20528 PB19598 Spike Amount 1 1 C Batch: rep Batch:	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzen M,P,O-Xyle Total BTE2 Surrogate TFT 4-BFB Sample: Analysis: Analysis:	197271 BTEX CG ne me (- SW Area Analytical Me Preparation M Flag Result 0.661 2.33 - SW Area atography (IC)	25400 25400 1 15' 25400 1 15' Result 0.12 <0.100 0.432 0.672 1.22 Units mg/Kg mg/Kg 15' Analytical Metho Preparation Meth	QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg d: E 300.0 Q od: N/A P	QC20528 PB19598 Spike Amount 1 1 C Batch: rep Batch:	30 30 30 30 30 30 30 30 30 30	10 10 10 10 10 10 10 10 10 10
TRPHC Sample: Analysis: Analyst: Param Benzene Toluene Ethylbenzer M,P,O-Xyle Total BTE2 Surrogate TFT 1-BFB Sample: Analysis: Analysis: Analyst: Saram	197271 BTEX CG ne Sme K 14 15 197271 Ion Chrom JSW Flag	- SW Area Analytical Me Preparation M Flag Result 0.661 2.33 - SW Area atography (IC) Result	25400 25400 15' 25400 15' 15' Analytical Methor Preparation Metho Units	mg/Kg QC Batch: Prep Batch Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg d: E 300.0 Q od: N/A P Dilution	QC20528 PB19598 Spike Amount 1 1 C Batch: rep Batch:	30 30 30 30 30 30 30 30 30 30	10 1: 5/17/02 5/17/02 RDL 0.001

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¹²Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control.
 ¹³High surrogate recovery due to peak interference.
 ¹⁴Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control.
 ¹⁵High surrogate recovery due to peak interference.

N/A.							
Sample:	19727	1 - SW Area	15'				
Analysis	TPH	Analytical Meth	nod: E 418.1	OC Batch:	OC20562	Date Analyzed	5/24/02
Analyst:	KM	Preparation Me	thod: N/A	Prep Batch:	PB19623	Date Prepared:	5/19/02
Derom		Flag	Result	Units	Dilut	ion	RDL
	<u> </u>		13100	mg/Kg	30		10
IRFIO	<u> </u>		10100	<u> </u>			
			· · · ·				
	10707		າດາ			an a	1.
sample:	19/2/	2 - 5 W Area	4 0		OCOR		
Inalysis:	BLEX	Analytical Met	hod: $S \ 8021E$	3 QU Batch:	QC20528	Date Analyzed	5/17/02
nalyst:	CG	Preparation Me	ethod: S 5035	Prep Batch:	: PB19598	Date Prepared:	5/17/02
aram		Flag	Result	Units	- 	Dilution 100	RDL
Renzene		Q	< 0.010	mg/Kg		10	0.001
Coluene		and the second	< 0.010	mg/Kg		10	0.001
thulhenze	ne		0.038		and a state of the	10	0.001
	ma		0.0155			10	0.001
Stal BTE	Y		0.0535	mg/Kg		10	0.001
	<u>~</u>		0.0000	mg/ 11 g/	·	10,	0.001
		· · · · · · · · · · · · · · · · · · ·		× · · · ·			
		• · · · · · · · · · · · · · · · · ·	•	100 A	Spike	Percent	Recoverv
					· · · ·		J
urrogate	- Flag	Result	Units	Dilution	Amount	Recovery	Limits
urrogate FT	Flag 16	Result 0.405	Units mg/Kg	Dilution 10	Amount 1	Recovery 40	Limits 70 - 130
urrogate FT -BFB	Flag 16 17	Result 0.405 0.368	Units mg/Kg mg/Kg	Dilution 10 100	Amount 1 1	Recovery 40 36	Limits 70 - 130 70 - 130
Eurrogate FFT -BFB Sample: nalysis: nalyst:	Flag 18 17 197272 Ion Chror JSW	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 I	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met	Dilution 10 100 od: E 300.0 Q(hod: N/A Pr	Amount 1 1 C Batch: C ep Batch: P	Recovery 40 36 2020760 Date Anal B19791 Date Prep	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02
ample: nalysis:	Flag 18 17 197272 Ion Chror JSW	Result 0.405 0.368 2 - SW Area 2 natography (IC) A I Bacult	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met	Dilution 10 100 d: E 300.0 Q(hod: N/A Pr Dilution	Amount 1 1 C Batch: C ep Batch: P	Recovery 40 36 2020760 Date Anal B19791 Date Prep	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02
ample: .nalysis: .nalyst:	Flag 18 17 197272 Ion Chror JSW Flag	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 H Result	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units	Dilution 10 100 od: E 300.0 Q0 hod: N/A Pr Dilution	Amount 1 1 C Batch: G ep Batch: P	Recovery 40 36 9C20760 Date Anal B19791 Date Prep	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL
Sample: -BFB Sample: nalysis: nalyst: aram hloride	197272 Ion Chror JSW Flag	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 H Result 10.2	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg	Dilution 10 100 od: E 300.0 Q0 hod: N/A Pr Dilution 10	Amount 1 1 C Batch: C ep Batch: P	Recovery 40 36 2020760 Date Anal B19791 Date Prep	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1
ample: nalysis: nalyst: aram hloride	Flag 18 17 197272 Ion Chror JSW Flag	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 I Result 10.2	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg	Dilution 10 100 od: E 300.0 Q(hod: N/A Pr Dilution 10	Amount 1 1 C Batch: C ep Batch: P	Recovery 40 36 2020760 Date Anal B19791 Date Prep	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1
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urrogate FT -BFB -ample: nalysis: nalyst: aram hloride ample: nalysis:	Flag 18 17 197272 Ion Chror JSW Flag 197272 TPH	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 I Result 10.2 4 - SW Area 2 Analytical Method	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' 20' 20: E 418.1	Dilution 10 100 od: E 300.0 Q(hod: N/A Pr Dilution 10 QC Batch:	Amount 1 1 C Batch: C ep Batch: P QC20562	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed:	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02
urrogate FFT -BFB ample: nalysis: nalyst: aram hloride ample: nalysis: nalysis:	Flag 197272 Ion Chror JSW Flag 197272 TPH KM	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 4 - SW Area 2 Analytical Methor Preparation Methods	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A	Dilution 10 100 d: E 300.0 Q0 hod: N/A Pr Dilution 10 QC Batch: Prep Batch:	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared:	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02
ample: ample: analysis: analyst: aram hloride ample: nalysis: nalysis: nalyst: aram	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 4 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result	Dilution 10 100 od: E 300.0 Q6 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623 Dilutic	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared:	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL
ample: nalysis: nalyst: aram hloride ample: nalysis: nalysis: nalyst: aram RPHC	Flag 17 197272 Ion Chror JSW Flag 197272 TPH KM	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 4 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor 1ag H	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8	Dilution 10 100 100 od: E 300.0 Q0 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Prep Batch: Units mg/Kg	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623 Dilutic 1	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: on	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Example: -BFB -BFB -ample: nalyst: aram chloride ample: nalysis: nalyst: aram RPHC	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 - SW Area 2 Analytical Methor Preparation Methor lag H	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8	Dilution 10 100 100 od: E 300.0 QC hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Prep Batch: Units mg/Kg	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623 Dilutic 1	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: m	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
Sample: -BFB -BFB -analysis: analyst: Param Shloride 	Flag 197272 Ion Chror JSW Flag 197272 TPH KM	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 F Result 10.2 4 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor Preparation Methor	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8	Dilution 10 100 100 od: E 300.0 Q0 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Prep Batch: Units mg/Kg	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623 Dilutic 1	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: m	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
ample: ample: ample: analysis: nalyst: aram hloride	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F 197273	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 I Result 10.2 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor 1 ag H	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8	Dilution 10 100 od: E 300.0 Q0 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Prep Batch: Units mg/Kg	Amount 1 1 C Batch: C ep Batch: P QC20562 PB19623 Dilutic 1	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: on	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10
ample: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalyst: aram	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F 197273 BTEX	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 4 - SW Area 2 Analytical Metho Preparation Metho Preparation Metho Preparation Metho Preparation Metho Preparation Methol 1 ag H	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8 27'-28' nod: S 8021B	Dilution 10 100 od: E 300.0 Q6 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units mg/Kg QC Batch:	Amount 1 1 C Batch: Q ep Batch: P QC20562 PB19623 Dilutic 1 QC20528	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: on Date Analyzed:	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02
ample: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis:	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F 197273 BTEX CG	Result 0.405 0.368 2 - SW Area 2 natography (IC) A Result 10.2 - SW Area 2 Analytical Metho Preparation Method Preparation Method Preparation Method	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8 27'-28' hod: S 8021B thod: S 5035	Dilution 10 100 100 od: E 300.0 QC hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch:	Amount 1 1 C Batch: Q ep Batch: P QC20562 PB19623 Dilutic 1 QC20528 PB19598	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: on Date Analyzed: Date Prepared:	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02
Sample: -BFB -BFB -analysis: -nalysi	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F 197273 BTEX CG	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 F Result 10.2 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor Preparation Methor Preparation Methor Flag	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8 27'-28' od: S 8021B thod: S 5035 Result	Dilution 10 100 100 od: E 300.0 Q0 hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Inits	Amount 1 1 C Batch: Q ep Batch: P QC20562 PB19623 Dilutic 1 QC20528 PB19598	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: on Date Analyzed: Date Prepared: ilution	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 5/17/02
ample: nalysis: nalyst: aram hloride ample: nalysis: nalyst: aram RPHC ample: nalysis: nalyst: aram	Flag 18 17 197272 Ion Chror JSW Flag 197272 TPH KM F 197273 BTEX CG	Result 0.405 0.368 2 - SW Area 2 natography (IC) 4 Result 10.2 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor Preparation Methor Flag	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8 27'-28' cod: S 8021B thod: S 5035 Result <0.010	Dilution 10 100 100 od: E 300.0 QC hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Units mg/Kg	Amount 1 1 C Batch: Q ep Batch: P QC20562 PB19623 Dilutic 1 QC20528 PB19598 D	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: m Date Analyzed: Date Prepared: ilution	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02 5/17/02 5/17/02 RDL 0.001
Sample: -BFB Sample: nalysis: nalyst: aram hloride ample: nalysis: nalyst: aram RPHC ample: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis: nalysis:	Flag 197272 Ion Chror JSW Flag 197272 TPH KM F 197273 BTEX CG	Result 0.405 0.368 2 - SW Area 2 natography (IC) A Result 10.2 - SW Area 2 Analytical Methor Preparation Methor Preparation Methor Flag	Units mg/Kg mg/Kg 20' Analytical Meth Preparation Met Units mg/Kg 20' od: E 418.1 hod: N/A Result 56.8 27'-28' cod: S 8021B thod: S 5035 Result <0.010	Dilution 10 100 100 od: E 300.0 QC hod: N/A Pr Dilution 10 QC Batch: Prep Batch: Units mg/Kg QC Batch: Prep Batch: Prep Batch: Mag/Kg	Amount 1 1 C Batch: Q ep Batch: P QC20562 PB19623 Dilutic 1 QC20528 PB19598 D	Recovery 40 36 9C20760 Date Anal B19791 Date Prep Date Analyzed: Date Prepared: m Date Analyzed: Date Prepared: ilution 10	Limits 70 - 130 70 - 130 yzed: 6/5/02 ared: 6/4/02 RDL 1 5/24/02 5/19/02 RDL 10 5/17/02 S/17/02 RDL 10

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¹⁶Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control. ¹⁷Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control.

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Report Date: Ju N/A	une 5, 200	2	Order Nu	mber: A020517 Maralo	716		Page N Jay A	umber: 10 of Anotheny Rar	18 1ch
Continued	Sample: 1	97273 Analysis:	BTEX	TInite		Dilution		RI	יזנ
Toluone	<u> </u>	+ +005	<0.010	mg/Kg	•	10	······································	0.0	01
Ethylbenzene			<0.010	mg/Kg	n Sel suitari da	10		0.0	01
M P O. Yvlene			< 0.010	mg/Kg		10		0.0	01
Total BTEX			<0.010	mg/Kg		10	•	0.0	01
	•		na ana ang sa				· · ·		
					Spike	P	ercent	Recove	ry
Surrogate	Flag	Result	Units	Dilution	Amount	R	ecovery	Limit	B
TFT	18	0.562	mg/Kg	10	1		56	70 - 13	0 .,
4-BFB	19	0.477	mg/Kg	10	1		47	70 - 13	0
Analysis: Ion Analyst: JSV	Chromat V	ography (IC) Anal Prep	ytical Method aration Metho	l: E 300.0 Q od: N/A P	C Batch: rep Batch:	QC20760 PB19791	Date An Date Pro	alyzed: 6/5/(epared: 6/4/()2)2
Param	Flag	Result	Units	Dilution		i santain Ti		RD	<u>"</u>
Çhloride		10.3	mg/Kg	10					<u> </u>
			· · · ·			•	· · ·		
Sample: 19	7273 -	SW Area 27'-	28'		, in the second s				
Analysis: TPI	H An	alvtical Method:	E 418.1	QC Batch:	QC20562	Date	Analyzed	: 5/24/0	2
Analyst: KM	Pr	eparation Method:	N/A	Prep Batch:	PB19623	Date	Prepared	: 5/19/0)2
Param	Flag	Resu	lt	Units	Dilu	tion		RD	L
TRPHC	· .	14	13	mg/Kg	1			1	0
	,				· · ·	· · .			

¹⁸Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control. ¹⁹Low surrogate recovery due to matrix interference. ICV, CCV, CCV show the method to be in control.

Quality Control Report Method Blank

Method Blank	QCBatch: QC	220519		an a
n an	na sense a sens Sense a sense a			Reporting
Param	Flag	Results	Units	Limit
Benzene		<0.010	mg/Kg	0.001
Toluene		<0.010	mg/Kg	0.001
Ethylbenzene		<0.010	mg/Kg	0.001
M.P.O-Xylene	الم	<0.010	mg/Kg	0.001
Total BTEX	, 13	<0.010	mg/Kg	0.001
	a a succession of the second	ه مانو و هر مه ای افغانی و د		
and the second	しゃかい しょうしゃ かんかか しゅう 潜っ かい	1		and the second

				Spike	Percent	Recovery
Surrogate	Flag	Result Un	its Dilution	Amount	Recovery	Limits
TFT	· · · ·	0.923 mg/	/Kg 10	1	92	70 - 130
4-BFB	1. A A A A A A A A A A A A A A A A A A A	0.835 mg/	'Kg 10	1	83	70 - 130

Method Blank QCBatch: QC20528

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r i friterie. F	n an	- · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · ·	an an an taon a Taon an taon an t	Reporting
Param		Flag	Results	•	Units		Limit
Benzene	and the second second		<0.010	t i k t a si a	mg/Kg		0.001
Toluene			<0.010		mg/Kg		0.001
Ethylbenzene			<0.010		mg/Kg		0.001
M,P,O-Xylene			<0.010	an an an that an	mg/Kg		0.001
Iotal BTEX			<0.010		mg/Kg		0.001

Jurrogate	e Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
FFT 1-BFB		0.948 0.812	mg/Kg mg/Kg	10 10	1 1	94 81	70 - 130 70 - 130
·. ·							

Method Blank QCBatch:

QC20561

				Reporting
aram	Flag	Results	Units	Limit
IRPHC	•.	<25.0	mg/Kg	10

Method Blank QCBatch: QC20562

				Reporting
'aram	Flag	Results	Units	Limit
RPHC		<25.0	mg/Kg	10
	4			

Report Date: June 5, 20 N/A	02	Order Numbe Mar	r: A02051716 alo		Page Numb Jay Anot	ber: 12 of 18 heny Ranch
Method Blank	QCBatch:	QC20760				
Param	Flag	Results		Units		Reporting Limit
Chloride		12.82	et e station	mg/Kg		1
		an a				
			•	•		
Method Blank	QCBatch:	QC20761			i en ¹ a bi	
Anna an ann an Anna Anna Anna Anna Anna						Reporting
Param	Flag	Results		Units		Limit
Chloride	· · · · · · · · · · · · · · · · · · ·	<12.82	a da	mg/Kg	· · · · · · · · · · · · · · · · · · ·	1

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory	Contro	1 Spikes	, Q	OBatch:	QC20519					· · ·
Param	LCS Besult	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.966	0.958	mg/Kg	10	1	<0.010	96	0	70 - 130	20
Benzene	0.966	0.966	mg/Kg	10	1	<0.010	96	0	70 - 130	20
Toluene	0.958	0.957	mg/Kg	10	$1^{(1)} \in 1^{(1)}$ and	<0.010	95	t i e Pt2 .0	70 - 130	20
Ethylbenzene	0.932	0.945	mg/Kg	10	1	<0.010	sin a 93 - j	1	70 - 130	
M,P,O-Xylene	2.91	2.83	mg/Kg	10	3	<0.010	97	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.924	0.925	mg/Kg	10	1	92	92	70 - 130
4-BFB	0.889	0.816	mg/Kg	10	1	88	81	70 - 130

Laboratory Control Spikes

QCBatch:

	Q	\mathbf{C}	20	15	2	E
	•				1	

					Spike					1
Param	LCS Result	LCSD Result	Units	Dil.	Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.873	0.87	mg/Kg	10	1	<0.010	87	0	70 - 130	20
Benzene	0.988	0.975	mg/Kg	10	1.	< 0.010	98	1	70 - 130	20
Toluene	0.968	0.906	mg/Kg	120	1	<0.010	96	6	70 - 130	20
Ethylbenzene	0.96	0.916	mg/Kg	10	1	<0.010	96	· 4	70 - 130	20
M,P,O-Xylene	3.02	2.9	mg/Kg	10	3	<0.010	100	. 4	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.903	0.89	mg/Kg	10	1	90	89	70 - 130
4-BFB	0.882	0.934	mg/Kg	10	1	88	93	70 - 130

1 N 14	e ja		1	And Andreas	Spike	1		· .		
	LCS	LCSD			Amount	Matrix			% Rec	RPD
Param	Result	Result	Units	Dil.	Added	Result	% Rec	RPD	Limit	Limit
TRPHC	268	305	mg/Kg	1	250	<25.0	107	12	74 - 110	20
the second s										

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes	QCBatch:	QC20562					
		Spike	· · ·	· . ·			1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
LCS LCSD	L)	Amount	Matrix	07 Dec	חמת	% Rec	RPD
ParamResultResultOntsTRPHC268305mg/Kg	<u>1</u>	250	<25.0	76 Rec 107	12	74 - 110	$\frac{\text{Limit}}{20}$

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory (Control	Spikes	
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QCBatch:	QC20760
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		· · · · · ·			Spike				•	
	LCS	LCSD			Amount	Matrix		· . ·	% Rec	RPD
Param	Result	Result	Units	Dil.	Added	Result	% Rec	RPD	Limit	Limit
Chloride	20 24.02	21 23.88	mg/Kg	1	12.50	12.82	192	0	90 - 110	20
Sulfate	²² 25.58	²³ 25.59	mg/Kg	1	12.50	14.34	204	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Labora	tory Contr	ol Spikes	Q	CBatch:	QC20761		•			
• •			· · · ·		Spike		÷			, - , -
Param	LCS Result	LCSD Result	Unițs	Dil.	Amount Added	Matrix Result 9	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	24 24.02	²⁵ 23.9	mg/Kg	1	12.50	<12.82	192	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC20519

					Spike					
	MS	MSD			Amount	Matrix		$(X_{i}, y_{i}) \in \mathcal{M}$	% Rec	RPD
Param	Result	Result	\mathbf{Units}	Dil.	Added	Result	% Rec	RPD	Limit	Limit
Benzene	0.868	0.839	mg/Kg	10	1	<0.010	86	3	70 - 130	20
	,						,		Contir	nued

²⁰The Soil blank should be subracted from the spikes; giving a %EA of 90 ²¹The Soil blank should be subracted from the spikes; giving a %EA of 90 ²²The Soil blank should be subracted from the spikes; giving a %EA of 90 ²³The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁴The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁵The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be subracted from the spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giving a %EA of 90 ²⁶The Soil blank should be spikes; giv

Report Dat N/A	e: June 5, 1	2002		Ord	er Number: Maral	A02051716 o		P	age Numbe Jay Anoth	r: 14 of 18 eny Ranch
Continue	ed							· .		-
					Spik	e				
	MS	MS	D ·		Amou	nt Matrix	•		% Rec	RPD
Param	Resu	lt Resu	ılt Ur	uits Di	il. Adde	d Result	% Rec	RPD	Limit	Limit
Toluene	0.83	9 0.85	64 mg	/Kg 1	0 1	< 0.010	83	1	70 - 130	20
Ethylbenzer	ne 0.85	7 0.84	l9 mg	/Kg 1	0 1	<0.010	85	0	70 - 130	20
M,P,O-Xyle	ne 2.74	2.6	9 mg	/Kg 10	0 3	0.016	90	1	70 - 130	20
Percent reco	very is bas	ed on the	spike resu	lt. RPD i	s based on t	he spike and	spike dupli	cate resu	lt.	
	MS	M	ISD			Spike	e M	S	MSD	Recovery
Surrogate	Result	R	esult	Units	Dilutio	n Amoui	nt % F	lec 9	% Rec	Limits
TFT	0.834	26	0.549	mg/Kg	10	1	83	}	54	70 - 130
4-BFB	27 0.68	2 ²⁸	0.475	mg/Kg	10	rran 1 .1	68	}	47	70 - 130
Matrix S	pikes	QCE	Batch:	QC20528	enter de Vinger de Contra La contra de Contra de La contra de Contra de La contra de Contra de La contra de Contra de					
in the second				ه. مراجع می ا	Spike	;				
	MS	MSI)		Amou	nt Matrix	· · · ·	·**	% Rec	RPD
Param	Resu	lt Resu	lt Un	its Di	l. Adde	d Result	% Rec	RPD	Limit	Limit
Benzene	0.938	3 0 .93	6 mg/	Kg 10) 1	<0.010	93	0	70 - 130	20
Foluene	0.92	0.91	5 mg/	'Kg 10), 1-	<0.010	92	0	70 - 130	20
Ethylbenzen	e 0.908	3 0.92	2 mg/	Kg 10) 1	<0.010		1	70 - 130	20
M,P,O-Xyler	ie 2.92	2.76	3 mg/	'Kg 10) 3	<0.010	97	5	70 - 130	20
Percent reco Surrogate	very is base MS Result	ed on the s MSI Resu	spike resu) lt U	lt. RPD is Jnits	based on t	he spike and : Spike Amount	spike duplic MS % Ree	ate resul N c %	t. MSD 9 Rec	Recovery Limits
<u> ſFT</u>	0.781	0.88	3 m	g/Kg	10	1	78		88	70 - 130
-BFB	0.714	0.72	5 m	g/Kg	10	1	71	- -	72	70 - 130
	-								· · · · · · ·	*
Matrix S _I	oikes	QCB	atch:	QC20561	j.				ti star.	•••
			•					· ·		25 13
· · · ·	100		1 · · ·		Spike				~ ~	n n n n n n n n n n n n n n n n n n n
· · · ·	MS	MSD	TT .		Amount	Matrix	~ ~		% Rec	RPD
aram	Result	Result	Units	Dil.	Added	Kesult	% Rec	RPD	Limit	Limit
RPHC	40200	40500	mg/Kg	1	250	44300	-1640	: -7 : -	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20562

²⁶ Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
 ²⁷ Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.
 ²⁸ Low surrogate recovery due to matrix interference. ICV, CCV show the method to be in control.

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	MS	MSD			Spike Amount	Matrix			% Rec	RPD	
Param	Result	Result	Units	Dil.	Added	Result	% Rec	RPD	Limit	Limit	1.1.1
FRPHC	399	337	mg/Kg	1	250	143	102	27	70 - 130	20	
ercent re	covery is ba	used on the	e spike result	. RPD is	based on th	e spike and	spike dupli	cate result.			
latrix	Spikes	QC	Batch: C	į C20760							
• •					Spike	*		5 * - 4		4. *	
	MS	MSD			Amount	Matrix	$f^{\rm eff}$		% Rec	RPD	
aram	Result	Result	Units	Dil.	Added	Result	% Rec	RPD	Limit	Limit	
hloride	30400	30377	mg/Kg	1	12500	19500	87	0	35 - 144	20	
1atrix S	Spikes	QC	Batch: G	C20761							
					Spike				· -	·	
	MS	MSD			Amount	Matrix	~ ~		% Rec	RPD	1
aram	Result	Result	Units	Dil.	Added	Result	% Rec	RPD	Limit	Limit	
	589.14	590.11	mg/Kg	1	h7 5	54 1	85	0	35 - 144	20	
ercent rec	overy is ba	sed on the	spike result.	RPD is	based on the	spike and a	spike duplic t	ate result.			
nioride ercent rec	overy is ba	sed on the Contir	spike result. Qu nuing Ča	RPD is ality alibrat	based on the Control	e spike and a Report ification	^{spike} duplic t n Stanc	ate result. lards			
nioride ercent rec	overy is ba	sed on the Contir	spike result. Qu nuing Ča	RPD is ality alibrat	based on the Control	spike and a Report ification	spike duplic t n Stanc	ate result. lards			
nioride ercent rec	overy is bai	sed on the Contir QCBatch	spike result. Qu nuing Ca au QC205	RPD is ality alibrat	based on the Control	e spike and a Report ification	^{spike} duplic t n Stanc	ate result. lards			
nioride ercent rec	overy is ba	sed on the Contir QCBatch	spike result. Qu nuing Ča a: QC205	RPD is ality alibrat	based on the Control tion Ver	e spike and a Report ification	spike duplic t n Stanc	ate result. lards Percent			
nioride ercent rec	overy is ba	sed on the Contir QCBatch	spike result. Qu nuing Ča :: QC205	RPD is ality alibrat 19 CCVs True	based on the Control tion Ver CCVs Found	e spike and a Report ification a C d Pe	spike duplic t n Stanc CVs ercent	ate result. lards Percent Recover	y I	Date	
ntoride ercent rec CCV (1	overy is bai	sed on the Contir QCBatch	spike result. Qu nuing Ca :: QC205 Units	RPD is ality alibrat	based on the Control tion Ver CCVs Found Conc	e spike and a Report ification d Pe Rec	spike duplic t n Stanc CVs cCVs covery	ate result. lards Percent Recover Limits	y I An	Date alyzed	
rcent rec CCV (1 ram TBE	overy is bai	sed on the Contir QCBatch	spike result. Quanting Ca e: QC205 Units mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10	based on the Control tion Ver CCVa Found Conc. 0.0975	e spike and a Report ification s C l Pe	spike duplic t n Stanc CVs ercent covery 97	ate result. lards Percent Recover Limits 85 - 115	y I An 5/	Date alyzed 17/02	
rcent rec CCV (1 ram TBE nzene) I	sed on the Contir QCBatch Flag	spike result. Quanting Ca uing Ca uing Ca units mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10	CONTROL CONTROL CONTROL COVE Found Conc. 0.0905 0.0905	e spike and a Report ification ification	spike duplic t n Stanc CVs ercent covery 97 90	ate result. lards Percent Recover Limits 85 - 115 85 - 115	y I An 5/ 5/	Date alyzed 17/02 17/02	
CCV (1 rram TBE luene)	sed on the Contir QCBatch	spike result. Quanting Ca uing Ca units mg/L mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10	CONTROL CONTROL CONTROL CONC CONC 0.0905 0.0926	e spike and a Report ification d Pe Rec	spike duplic t n Stanc CVs ercent covery 97 90 92	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02	
rcent rec CCV (1 ram TBE nzene luene hylbenzer	overy is bai)) He	sed on the Contir QCBatch Flag	spike result. Quanting Ca uing Ca uing Ca uing Ca units mg/L mg/L mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10	CCVs Found Control CON CON CON CON CON CON CON CON CON CON	e spike and a Report ification d Pe Rec	spike duplic t n Stanc CVs ercent covery 97 90 92 86	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02	
ercent rec CCV (1 aram TBE enzene oluene	overy is bai) I	sed on the Contir QCBatch Flag	spike result. Quanting Ca e: QC205 Units mg/L mg/L mg/L	RPD is ality alibrat	Control cion Ver Cove Found Conc 0.0905 0.0905	e spike and a Report ification d Pe Rec	spike duplic t n Stanc CVs ercent covery 97 90 92	ate result. lards Percent Recover Limits 85 - 115 85 - 115	y I An 5/ 5/	Date alyzed 17/02 17/02	
CCV (1 uram TBE inzene iluene hylbenzer P,O-Xyle))) ne ne	sed on the Contir QCBatch	spike result. Quanting Ca uing Ca uing Ca uing Ca science units mg/L mg/L mg/L mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30	based on the Control tion Ver Found Conc 0.0975 0.0905 0.0926 0.0865 0.279	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02	
CCV (1)	overy is bai)) ne ne	sed on the Contir QCBatch Flag QCBatch:	spike result. Quaing Ca auing Ca au au au au au au au au au au au au au	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30	based on the Control tion Ver Found Conc. 0.0975 0.0905 0.0926 0.0865 0.279	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02 17/02	
CCV (1 CCV (1 TBE Inzene Iuene hylbenzer P,O-Xyle CV (1)	overy is bai)) Interne	sed on the Contir QCBatch Flag QCBatch:	spike result. Quant of the second sec	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30	CCVs Control Control Conc Conc Conc 0.0908 0.0908 0.0926 0.0868 0.279	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02 17/02	
CCV (1 TBE Inzene Juene hylbenzer P,O-Xyle	overy is bai)) ne me	sed on the Contir QCBatch Flag	spike result. Quant of the second sec	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30	CCVs CCVs Control Control Conc Conc 0.0975 0.0905 0.0926 0.0865 0.279	e spike and a Report ification d Pe Rec	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02	
ram CCV (1 TBE Duene hylbenzer P,O-Xyle CV (1)	overy is bar)) Hene ne	sed on the Contir QCBatch Flag QCBatch:	spike result. Quantization spike result. QUAL Spike result. Spike result	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30 CCVs True Conc	CCVs CONTROL CONTROL CONC CONC 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93 CVs rcent	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02	
CCV (1 aram TBE nzene bluene hylbenzen ,P,O-Xyle CV (1) ram TBE	overy is bai)) Interest interest F	sed on the Contin QCBatch Flag QCBatch: `lag	spike result. Quantization spike result. QUAL QC2051 Mg/L mg/L mg/L mg/L Mg/L Mg/L Mg/L Mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30 CCVs True Conc. 0.10	CCVs CCVs Found Conc. Conc. Conc. Conc. Conc. Conc. Conc. Conc. Conc. Conc. CCVs Found Conc. CCVs Found Conc. COVs	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93 CVs rcent covery 92	ate result. lards Percent Recover Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/ 5/	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02	
CCV (1 aram TBE enzene oluene hylbenzen ,P,O-Xyle CV (1) ram TBE nzene	overy is bai)) Ine one F	sed on the Contir QCBatch Flag QCBatch:	spike result. Quaing Ca auing Ca aug/L mg/L mg/L mg/L Mg/L Mg/L Mg/L Mg/L Mg/L Mg/L Mg/L M	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30 CCVs True Conc. 0.10 0.30	CCVs CCVs Found 0.0975 0.0905 0.0926 0.0865 0.279 CCVs Found Conc. 0.0942 0.0942 0.0965	e spike and a Report ification	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93 CVs rcent covery 94 94	ate result. lards Percent Recovery Limits 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/ 5/1 5/1	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02	
CCV (1 aram TBE enzene bluene hylbenzen ,P,O-Xyle CV (1) ram TBE nzene luene) povery is bai)) I ne me F	sed on the Contir QCBatch Flag QCBatch:	spike result. Quaing Ca uing Ca uing Ca uing Ca uing Ca units mg/L mg/L mg/L mg/L Units mg/L mg/L mg/L mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30 CCVs True Conc. 0.10 0.30	CCVs Found Control Control Conc. Conc. 0.0978 0.0908 0.0926 0.0868 0.279 CCVs Found Conc. 0.0942 0.0942 0.0965 0.0958	e spike and a Report ification	spike duplic t n Stanc OCVs ercent covery 97 90 92 86 93 CVs rcent sovery 94 96 95	ate result. lards Percent Recovery Limits 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/ 5/ 5/1 5/1 5/1 5/1	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02	
CCV (1 ram TBE nzene bluene hylbenzer P,O-Xyle CV (1) ram TBE nzene luene hylbenzer	overy is bai)) <u>F</u>	sed on the Contir QCBatch Flag QCBatch: `lag	spike result. Quaing Ca uing Ca uing Ca uing Ca uints mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	RPD is ality alibrat 19 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30 CCVs True Conc. 0.10 0.10 0.10 0.10 0.30	CCVs Found 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0926 0.0942 0.0965 0.0958 0.0958 0.0899	e spike and a Report ification s C l Pe Rec	spike duplic t n Stanc CVs ercent covery 97 90 92 86 93 CVs rcent covery 94 96 95 89	ate result. lards Percent Recovery Limits 85 - 115 85 - 115	y I An 5/ 5/ 5/ 5/ 5/ 5/ 5/1 5/1 5/1 5/1 5/1	Date alyzed 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02 17/02	

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Continued		<u>.</u>		······································	an sa	<u> </u>		
Communed			CCV	CCVe	CCVs	Percent		
			True	Found	Percent	Recovery	Date	· •
)	F	og Unite	Conc	Conc	Recovery	Limits	Analyzed	
ATAIN		ag Onio	0 30	0.203	97	85 - 115	5/17/02	•
A,F,O-Aylene		IIIg/ L/	0.00	0.200		00 110	0/11/02	
• • • •	الانتيار کې دکار او د د							
n an	• • • • • •				an the second		t to a second	· -
CCV (1)		QCBatch: QC	C20528					
11	en el competencia de la compet		CCVs	CCVs	CCVs	Percent		· · · ·
an an an Arlanda. Ann an Airtean an Arlanda			True	Found	Percent	Recovery	Date	
àram	Fl	ag Units	Conc.	Conc.	Recovery	Limits	Analyzed	
TBE		mg/L	0.10	0.0925	92	85 - 115	5/17/02	
senzene		mg/L	0.10	0.0939	93	85 - 115	5/17/02	•
oluene		mg/L	0.10	0.0936	93	85 - 115	5/17/02	
thylbenzene	·. · ·	mg/L	0.10	0.091	91	85 - 115	5/17/02	
1,P,O-Xylene	* 1 [*]	mg/L	0.30	0.285	95	85 - 115	5/17/02	al tean a Taona
						······	•	··
						· · · ·		
aar (-)	- - 191	1997 - 19		t a stati				
CCV (2)	6	QCBatch: QC	20528					
in an		and a second	· ·			i <u>se i</u> se sis		
			CCVs	CCVs	CCVs	Percent		ан 1. к
the second		·	True	Found	Percent	Recovery	Date	÷
aram	Fla	ug Units	Conc.	Conc.	Recovery	Limits	Analyzed	te est
ITBE		mg/L	0.10	0.0895	89	85 - 115	5/17/02	
enzene		mg/L	0.10	0.0952	95	85 - 115	5/17/02	r er e . Le re
oluene		mg/L	0.10	0.0892	89	85 - 115	5/17/02	
thylbenzene		m mg/L	0.10	0.093	93	85 - 115	5/17/02	
I,P,O-Xylene	· · ·	mg/L	0.30	0.293	97	85 - 115	5/17/02	
	$1 \leq 1 \leq \frac{1}{2}$					÷ .		· ·
	• .			· . · ·			· · ·	•
CV (1)	Q	CBatch: QC2	20528					
•	· · · ·		CONT	0011	001	D	1	
		· .		CCVs	CCVs	Percent	-	5. 1 A. -
	ורד	а ТТ	True	Found	Percent	Recovery	Date	
	F 18	g Units	<u> </u>	Conc.	Recovery		Analyzed	
		mg/L	0.10	0.0871	ð/	611 - 65	0/1//UZ	· . ·
		mg/L	0.10	0.0929	92	60 - 115 05 - 115	5/17/02	- 1.
		mg/L	0.10	0.0965	90	80 - 115	5/17/02	
	se marina. Na series	mg/L	0.10	0.0961	90	80 - 115	5/17/02	
,r,U-Aylene		mg/L	0.30	0.307	102	80 - 115	5/17/02	
• • • • • •				· · · · · · · ·		•		-
NOTE AN		· · · · · · · · · · · · · · · · ·	•		•		· · ·	
\mathbf{JUV} (1)	Q	CBatch: QC	20561			···.	каранан аларын Карал	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Dete	
ram	Flag	Units	Conc	Conc	Recovery	Limits	Analward	
RPHC	0	mg/Kg	100	109	109	80 - 120	5/24/02	
		0/0	<u> </u>		100		0/24/02	-
			1				. · · · · · · · · · · · · · · · · · · ·	

Report Date: J N/A	June 5, 2	2002	Ofter	Maralo		Jay Aı	notheny Ranch	
CCV (2)		QCBatch:	QC20561			1 1		
an a	. .		CCVs	CCVs	CCVs	Percent	i i i i i i i i i i i i i i i i i i i	
	e teres t	an an an an Arraigh An Arraighteachta	True	Found	Percent	Recovery	Date	
Daram	Flag	Units	Conc.	Conc	Recoverv	Limits	Analvzod	
TRPHC		mg/Kg	100	107	107	80 - 120	5/24/02	
	<u> </u>						0/22/02	
ICV (1)	ана С	QCBatch: (QC20561			en e		
			COM	COV	COV	Democrat		
				CUVS	CCV8 Demosrat	Percent		· .
		TTer	Irue	Conc	Percent	Recovery	LJate	ч. 1911 г.
'aram	Fiag				necovery	Limits	Analyzed	
крнс		mg/Kg	100	111	111	80 - 120	5/24/02	
					e e e e e e e e e e e e e e e e e e e			
CCV (1)		QCBatch:	QC20562	e i Anter de la composición				
	. :	The second secon	~~*	<u> </u>	~~			
With the second s			CCVs	CCVs	CCVs	Percent		· · · ·
	1.1.1.1.1.1.1	n en teeste Mary. Einer	True	Found	Percent	Recovery	Date	
· · ·		TT	Conc	Cone	Recovery	Limits	Analyzed	
aram	Flag	Units	<u> </u>	<u> </u>	20000.019	· · · · · · · · · · · · · · · · · · ·		
aram RPHC	Flag	Units mg/Kg	100	109	109	80 - 120	5/24/02	
aram RPHC CCV (2)	Flag	Units mg/Kg QCBatch:	QC20562	109	109	80 - 120	5/24/02	
aram RPHC CCV (2)	Flag	Units mg/Kg QCBatch:	QC20562 CCVs	CCVs	109 CCVs	80 - 120 Percent	5/24/02	
aram RPHC	Flag	Units mg/Kg QCBatch:	QC20562 CCVs True	CCVs Found	CCVs Percent	80 - 120 Percent Recovery	5/24/02 Date	
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Param Fla	e Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
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Sulfate	mg/L	12.50	11.38	.91	90 - 110	6/5/02
CCV (1)	QCBatch:	QC20761				
		CCVs	CCVs	CCVs	Percent	
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Article 1: General

1 The words "we", "us", and our refer to TraceAnalysis. You will deriver samples to us for analysis, accompanied, or preceded by a signed Chain of Custody/Analysis Request defining the scope and timing of bur work and stating either the testing criteria you require or identifying the agency to which the results will be submitted.

Article 2: Our General Responsibilities

2.1; We agree to provide the prolessional services described in this agreement. We will provide you with written reports containing analytical results. In performing our service, we will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession practicing in the same locality.

2.2 Test and observations will be conducted using test procedures and laboratory protocols as specified in accepted Chain of Custody/Analysis Request. If you direct a mariner of making tests that varies from our standard or recommended procedures, you agree to hold us harmless from all claims, damages, and expenses arising out of your direction.

2.3 We will not release information regarding our services for you or any information that we receive from you, except for information that is in the public domain and except as we are required by law. · • • • • \mathbf{x}^{\dagger}

Article 3: Your General Responsibilities

3.1 On each Chain of Custody/Analysis Request you will designate a representative who has authority to transmit instructions, receive information, and make decisions relative to our work.

3.2 You will respond in a reasonable time to our request for decisions, authorization for changes, additional compensation, or schedule extensions.

3.3 For each Chain of Custody/Analysis Request you will either provide us with the exact methods for analysis of each fraction or you will identify the regulations and agency under which or for which the analysis are to be prepared. If permits, consent orders, work plans, quality assurance plans, or correspondence with regulatory agencies address laboratory requirements, you will provide us with copies of the relevant provisions prior to our initiation of the analyses.

Article 4: Reports and Records

4.1-We will furnish copies of each report to you as specified in the Chain of Custody and Analysis Request. We will retain analytical data for seven years and financial data for three years relating to the services performed following transmittal of our final report.

4.2 If you do not pay for our services as agreed, you agree that we may relatin all reports and work not yet delivered to you. You also agree that our work will not be used by you for any purpose unless paid for.

Article 5: Delivery and Acceptance of Samples

5.1 Until we accept delivery of samples by notation on chain of custody documents or otherwise in writing accept the samples, you are responsible for loss of or damage to samples. Until so accepted, we have no responsibility as to samples.

5.2 As to any samples that are suspected of containing hazardous substances or radioactive material, such that would make special handling required, you will specify the suspected or known substances, and level and type of radioactive activity. This information will be given to us in writing as a part of the Chiala of Custody/Analysis Request and will precede or accompany samples suspected of containing hazardous substances. 5.3 Samples accepted by us remain your property while in our custody. We will retain samples for a period of 14 days following the date of submission of our report. We will extend the relention period if you so direct. Following the retention period we will dispose of non-hazardous samples. We may return highly hazardous, acutely toxic, or radioactive samples and samples containers and residues to you. You agree to accept them,

5.4 Regardless of a prior acceptance, we may refuse acceptance or revoke acceptance of samples if we determine that the samples present a risk to health, safety, or the environment, or that we are not authorized to accept linem. If we revoke acceptance of any sample, you will have it removed from our facilities promptly. 1.5 ÷.

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Article 5: Changes to Task Orders

Article 5: Changes to Task Orders 6.1. No persons other than the designated representatives for each Chain of Clistody/Analysis Request. We will notify you promptly if we identify any activity that we regard as a change to the terms and conditions of a Chain of Custody/Analysis Request. Our notice will include the date, nature, circumstance, and cause of the activity regarded as a change. We will specify the particular elements of project performance for which we may seek an equitable adjustment.

6.2 You will respond to the notice provided for in paragraph 6.1 promptly. Changes may be made to a Creatin of Custody/Analysis Request through issuance of an amendment. The amendment will specify the reason for the change and, as appropriate, include any modified budgets, schedules, scope of work, and other necessary provisions.

6.3. Until agreement is reached concerning the proposed change, we may regard the situation as a suspension directed by you.

Article 7: Compensation

7.1 Our pricing tor the work is predicated upon your acceptance of the conditions and allocations of risks and responsibilities described in this agreement. You agree to pay for services as stated in our proposal and accepted by you or according to our then current standard pricing documents if there is no other written agreement as to price. An estimate or statement of probable cost is not a firm figure unless stated as such.

7.2 Unless otherwise agreed to elsewhere, you agree to pay invoices within 30 days of receipt unless, within 15 days from receipt of the invoice, you notify us in writing of a particular item that is alleged to be incorrect. You agree to pay the uncontested portions of the invoices within 30 days of receipt. You agree to pay interest autopaid balances beginning 60 days after receipt of invoice at the rate of 1.5% per month, but not to exceed the maximum rate allowed by law. 12

7.3 If you direct us to invoice another, we will do so, but you agree to be ultimately responsible for our compensation until you provide us with that that the garty's written acceptance of all terms of our agreement and until we agree to the substitution.

7.4 You agree to compensate us for our services and expenses if we are required to respond to legal process related to our services for you. Compensable services include hourly charges for all personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, the preparation of the testifier, and appearances, related to the legal process. -1

7.5 If we are delayed by, or the period of performance is materially extended because of, factors beyond our control, or if project condition or the scope or amount of work change, or if the standards or methods of testing change, we will give you timely notice of the change and we will receive an equitable adjustment of our compensation.

Article 8: Risk Allocation, Disputes, and Damages

8.1 Neither we nor you will be liable to the other for special. incidental, consequential or punitive losses or damages, including but not limited to those arising from delay, loss of use, loss of profits or revenue, or the cost of capital.

8.2 We will not be liable to you for damages unless suit is commenced within two years of injury or loss or within two years of the date of the completion of our services, whichever is earlier. In no event will we be liable to you unless you have notified us of the discovery of the negligent act, error, omission or breach within 30 days of the date of its discovery and unless you have given us an opportunity to investigate and to recommend ways of mitigating your damages.

8.3 In the event you fail to pay us within 90 days following the invoice date, we may consider the default a total breach of our agreement and we may, at our option, terminate all of our duties without flability to you or to others:

8.4 If it is claimed by a third party that we did not complete an acceptable analysis; at your request we will seek turther review and acceptance of the completed work by the third barty and use your best efforts to obtain that acceptance. We will assist you as directed.

8.5 You and we agree that disputes will be submitted to "Alternative Dispute Resolution" (ADR) as a condition precedent to litigation and other remédies provided by law. Each of us agrees to exercise good faith efforts to resorve disputes through inediation unless we both agree upon another ADR-procedure. All disputes will be governed by the law of the place where our services are rendered, or if our services are rendered in more than one state, you and we agree that the law of the place that services were first rendered will govern. $^{\circ\prime}$

8.6 If either of us makes a claim against the other as to issues out of the performance of this agreement, the prevailing party will be entitled to recover its reasonable expenses of litigation, including reasonable attorney's tees. If we bring lawsuit against you to collect our invoiced fees and expenses, you agree to pay our reasonable collection expenses including afformer fees.

Article 9: Indemnities

9.1 We will indemnity and hold you hamless from and against demands, damages, and expenses caused by our negligent acts and omissions and breach of contract and by the negligent acts and omissions and breach of contract of persons for whom we are legally responsible. You will indemnify and hold us harmless from and against demands, damages, and expenses caused by your negligent act and omissions and breach of contract and by the nogligent acts and omissions and breach of contract of persons for whom you are legally responsible. These indemnities are subject to specific limitations provided for in this agreement. .

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Article 10: Miscellaneous Provisions

10.1 This agreement constitutes the entire agreement between you and us, and it supersedes all provision of this agreements. Any term, condition, prior course of dealing, course of performance, usage of trade, understanding, Durchase order conditions, or other agreement purporting to modify vary, supplement, or explain any provision of this agreement is of no effect until placed in writing and signed by both parties subsequent to the date of this agreement. In no event will the printed terms or conditions stated in a purchase of work order, other than an agreed upon Chain of Custody/Analysis Request, be considered a part of this agreement, even if the document is signed by both of us. ġ.,

10.2: Neither party will assign this agreement without the express written approval of the other, but we may subcontract laboratory procedures with your approval as we deem necessary to meet our obligations to you. 10.3.It any of the provisions of this agreement are held to be invalid or unenforceable in any respect, the remaining terms will be in fuil effect and the agreement will be construed exit the invalid or unenforceable matters were never included in it. No waiver of any default will be waiver of any future default.

10.4 Neither you or we will have any liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not signified to Acta of Ood, civil unrest and war, labor inrest and strikes, equipment failures, matrix interference, acts of authorities, and failures of subcontractors that could not be reasonably anticipated.

10.5 You may step our work by giving a written suspension or termination directive, but once work has been suspended, we need not resume work while we agree to change in scope, schedule, and compensation. Upob espension or termination, we will use reasonable care to preserve samples provided that you agree to compensate us for any additional affort, but we will have no responsibility for meeting holding time limitations after the effective time of a cuspaneion or termination directive. We will be compensated for service rendered and expenses incurred prior to termination that cannot reasonably be avoided. 1.2

Submittal of samples constitutes agreement to Terms and		Pelinquished by: Date: Time:		telinquished by: Date: Time: Rec	WAYNE PRICE 5/14/02 5:20PM	relinquished by: 1 Date: Time: Rec		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		South AREA S' 1	11 11 22/28' /	" " 20' 1	<u> </u>	1 , 01 1, 11	SW AREA 5' 1	Company Name: NM OCD Address: City, Zip Matheway: Street, City, Zip (220 S. SAWT FRANCIS Contact Person: WAY/UP IRICE Invoice to: Invoice to:	6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-1296 Few Vince, Tota 1996
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1.1 The words "we", "us", and our" refer to TraceAnalysis. You will outsider samples to us for analysis, accompanied, or preceded by, a signed widin of Custody/Analysis Request defining the scope and timing of pur work and stating either the testing criteria you requise or identifying the agency to which the results will be submitted.

Article 2: Our General Responsibilities

2.1 We agree to provide the professional services described in this agreement. We will provide you with written reports containing analytical results. In performing our service, we will use that degree of care and skill ordinanly exercised under similar circumstances by reputable members of our profession practicing in the same locality. 2.2 Test and observations will be conducted using test procedures and laboratory protocols as specified in accepted Chain of Custody/Analysis Request. If you direct a manner of making tests that varies from our

standard or recommended procedures, you agree to hold us harmless from all claims, damages, and expenses arising out of your direction, 2.3 We will not release information regarding our services for you or any information that we receive from you, except for information that is in the public domain and except as we are required by law

불 소 5년 201 1.5.1 Article 3: Your General Responsibilities

3.1 On each Chain of Custody/Analysis Request you will designate a representative who has authority to transmit instructions, receive information, and make decisions relative to our work.

3.2 You will respond in a reasonable time to our request for decisions, authorization for changes, additional compensation, or schedule extensions.

3.3 For each Chain of Custody/Analysis Request you will either provide us with the exact methods for analysis of each fraction or you will identify the regulations and agency under which or for which the analysis are to be prepared. If permits, consent orders, work plans, quality assurance plans, or correspondence with regulatory agencies address laboratory requirements, you will provide us with copies of the relevant provisions

Afflicie 4: Reports and Records

4.1 We will furnish copies of each report to you as specified in the Chain of Custody and Analysis Request. We will retain analytical data for seven years and financial data for three years relating to the services performed

4.2 If you do not pay for our services as agreed, you agree that we may retain all reports and work not yet delivered to you. You also agree that our work will not be used by you for any purpose unless paid for.

Article 5: Delivery and Acceptance of Samples

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5 1 Until we accept delivery of samples by notation on chain of custody documents or otherwise in writing accept the samples, you are responsible for loss of or damage to samples. Until so accepted, we have no

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5.4 Regardless of a prior acceptance, we may refuse acceptance or revoke acceptance of samples if we determine that the samples present a risk to health, safety, or the environment, or that we are not authorized to 5.4 Regardless of a prior acceptance, we may refuse acceptance or revolve acceptance of acceptance of any sample, you will have it removed from our facilities promptly. a in the second

Article 6: Changes to Task Orders

5.1 No persons other than the designated representatives for each Chain of Custody/Andiyes Request are authonized to act regarding changes to a Chain of Custody/Analysis Request. We will notify you promptly if we identify any activity that we regard as a change to the terms and conditions of a Chain of Custody/Analysis Request. Our notice will include the date, nature, circumstance, and cause of the activity regarded as a change. We will specify the particular elements of project performance for which we may seek an equitable adjustment.

6.2 You will respond to the notice provided for in paragraph 6.1 promptly. Changes may be made to a Chain of Custody/Analysis Request through issuance of an amendment. The amendment will specify the reason for the change and, as appropriate, include any modified budgets, schedules, scope of work and other necessary provisions.

6.3 Until agreement is reached concerning the proposed change, we may regard the situation as a suspension directed by you.

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Article 7: Compensation

7.1 Our pricing for the work is predicated upon your acceptance of the conditions and allocations of risks and responsibilities described in this agreement. You agree to pay tog services as stated in our proposal and accepted by you or according to our then current standard pricing documents if there is no other written agreement as to price. An estimate or statement of probable cost is not a firm figure; unless stated as such. 7.2 Unless otherwise agreed to elsewhere, you agree to pay involces within 30 days of receipt unless, within 15 days from receipt of the invoice, you notify us in writing of a particular itempthat is alleged to be incorrect. You agree to pay the uncontested portions of the invoices within 30 days of receipt. You agree to pay interest on unpaid balances beginning 60 days after receipt of invoice at the table of 1.5% per month, but not to exceed the maximum rate allowed by law.

7.3. If you direct us to invoice another, we will do so, but you agree to be ultimately responsible for our compensation until you provide us with that third party's written acceptance of all terms of our agreement and until

7.4 You agree to compensate us tor our services and expenses if we are required to respond to legal process related to our services for you. Compensative services include hourly changes for all personnel involved in the response and attorney fees reasonably incurred in obtaining advice concerning the response, the preparation of the testifier, and appearances related to the legal process.

7.5 If we are delayed by, or the period of performance is materially extended because of, factors beyond our control, or if project condition or the scope or amount of work change, or if the standards or methods of testing change, we will give you timely notice of the change and we will receive an equitable adjustment of our compensation.

Article 8: Risk Allocation, Disputes, and Damages

8.1 Neither we nor you will be liable to the other for special, incidental, consequential or punitive losses or damages, including but not limited to those arising from delay, loss of use, loss of profits or revenue, or the cost

8.2 We will not be flable to you for damages unless suit is commenced within two years of injury or loss or within two years of the date of the completion of our services, whichever is earlier. In no event will we be liable to you unless you have notified us of the discovery of the negligent act, error, omission or breach within 30 days of the date of its discovery and unless you have given us an opportunity to investigate and to recommend

8.3 In the event you fail to pay us within 90 days following the invoice date, we may consider the default a total breach of our agreement and we may, at our option; terminate af of our duties without liability to you or

8.4 if it is claimed by a third party that we did not complete an acceptable analysis, at your request we will seek further review and acceptance of the completed work by the third many and use your best efforts to obtain that acceptance. We will assist you as directed.

8.5 You and we agree that disputes will be submitted to "Alternative Dispute Resolution" (ADR) as a condition precedent to litigation and other remedies provided by law. Each of us agrees to exercise good taith efforts to resolve disputes through mediation unless we both agree upon another ADR procedure. All disputes will be governed by the law of the place where our services are rendered, or if our services are rendered in more than one state, you and we agree that the law of the place that services were first rendered will govern.

8.6 If either of us makes a claim against the other as to lasues out of the performance of this agreement, the prevailing party will be entitled to recover its reasonable expenses of lagetion, including reasonable attorney's fees. If we bring lawsuit against you to collect our involced fees and expenses, you agree to pay our reasonable collection expenses including attorney fees.

Article 9: Indemnities

9.1 We will indemnify and hold you harmless from and against demands, damages, and expenses caused by our negligent acts and omissions and breach of contract and by the negligent acts and omissions and breach of contract acts and omissions and breach of contract acts and omissions and breach of contract acts and omissions and breach of contrac

Article 10: Miscellaneous Provisions

10.1 This agreement constitutes the entire agreement between you and is, and it supprised at an or agreements. Any term, condition, prior course of dealing, course of performance, usage of trade, understanding, purchase provision of this agreement is of no effect until placed in writing and signed by both parties subsequent to the date of this agreement. In no event will the printed terms or conditions stated in a purchase or work order, other themain agreed upon Chain of Custody/Analysis Request, be considered a part of this agreement, even if the

10.2 Weither party will assign this agreement without the express written approval of the other, but we may subcontract laboratory procedures with your approval as we deem necessary to meet our obligations to you. 10.3 If any of the provisions of this agreement are held to be invalid or unenforceable in any respect, the remaining terms will be in fuil effect and the agreement will be construed as if the invalid or unenforceable matters were never included in it. No walver of any default will be waiver of any future default.

10.4 Neither you or we will have any liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, equipment failures, matrix interference, acts of authorities, and failures of subcontractors that could not be reasonably anticipated.

10.5 You may stop our work by giving a written suspension or termination directive, but once work has been suspended, we need not resume work until we agree to change in scope, schedule, and compensation. Upon suspension or termination, we will use reasonable care to preserve samples provided that you agree to compensate us for any additional effort, but we will have no responsibility for meeting holding time limitations after the effective time of a suspension or termination directive. We will be compensated for service rendered and expenses incurred prior to termination that cannot reasonably be evolved.