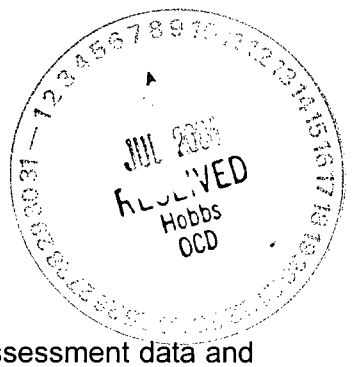
BNC SERVICES
BNC Environmental Services, Inc.

AUSTIN ▪ DALLAS ▪ HOUSTON ▪ MIDLAND ▪ NEW MEXICO ▪ OKLAHOMA

June 21, 2004

Mr. Mike Stansifer
BP PIPELINES (NORTH AMERICA), INC.
502 North West Avenue
Levelland, Texas 79336



Subject: Soil Assessment and Analytical Results
Saunders Station
Lea County, New Mexico

Dear Mr. Stansifer:

BNC Environmental Services, Inc. (BNC) is pleased to submit soil assessment data and analytical results from soil sampling activities conducted for BP Pipelines (North America), Inc. (BP) at the above referenced crude oil release site.

The BP Saunders Station (Site) is located approximately 12 miles west-northwest of Lovington, Lea County, New Mexico. The legal description of the Site is Section 3, T-15-S, R-33-E with GPS coordinates 33° 03.223' N and 103° 35.840' W (FIGURE 1). The Site consists of a tank-battery with two 210-barrel crude oil tanks, one 210-barrel produced water tank and a truck loading facility. The tanks are contained within a 45-foot by 90-foot firewall.

A New Mexico Oil Conservation Division (NMOCD) form C-141, Release Notification and Corrective Action was submitted to the agency on April 1, 2004. A crude oil release of approximately 21-barrels occurred on March 3, 2004 at the Site. Twenty-barrels were reported as recovered. A copy of the C-141 Form is attached to this correspondence. The release was the result a tank over-flow and was fully contained within the firewall. BP personnel took corrective action subsequent to the release. Hydrocarbon-impacted soils associated with the crude oil release were excavated by CJR Construction (CJR) personnel and delineated using a backhoe. The vertical and horizontal extents of the excavation were assessed by field personnel using visual observation. Impacted soil was removed from the excavation, spread and tilled outside the firewall location and treated with microblaze to enhance the hydrocarbon remediation effort. The extent of the remedial excavation and the Site details are presented in FIGURE 2.

The New Mexico Oil Conservation Division (NMOCD) has regulatory jurisdiction over oil and gas production operations including pipeline spill/closure in the State of New Mexico. This project was conducted under the regulatory jurisdiction of the NMOCD,

BP Pipeline = 209700
facility = fPAC0601955291
incident = nPAC0601955532
application = pPAC0601955738

2135 S. Loop 250 West Midland, Texas 79703 432-686-0086 fax 432-686-0186 www.bncenv.com

which requires that soil impacted by a crude oil spill be remediated in such a manner that the potential for future affects to groundwater or the environment are minimized. The NMOCD hydrocarbon remediation levels are determined by ranking criteria on a site-by-site basis, which is outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection and distance to surface water.

Information provided by Mr. Larry Johnson with the NMOCD indicated that the depth-to-groundwater at the Site is between 50 and 100 feet. Based on these Site characteristics and associated NMOCD ranking criteria presented in the table below, the following hydrocarbon remediation levels apply at the Site: benzene- 10 ppm, BTEX- 50 ppm and TPH- 1,000 ppm.

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater	> 50 feet <100 feet	10
Wellhead Protection Area	>1000 feet	0
Distance to Surface Water	>1000 feet	0

Total Ranking Score = 10

Confirmation soil sampling collection events were conducted by BNC personnel on three separate occasions. Each soil sample was placed into a laboratory-supplied soil jar equipped with a Teflon-lined lid and placed on ice in an insulated cooler. These samples were submitted to TraceAnalysis, Inc. (Trace) in Lubbock, Texas for analysis of total petroleum hydrocarbons (TPH) diesel-range organics (DRO) and gasoline-range organics (GRO) by EPA Method 8015 modified and analysis of benzene, toluene, ethylbenzene and xylene (BTEX) by EPA method 8021B. The submitted coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory. The certified analytical reports are provided as an attachment.

On March 24, 2004, BNC personnel conducted a Site visit to collect confirmation soil samples from the remedial excavation and tilled-soils. Three grab samples were collected from the bottom of the excavation (E1, E2 and E3) and one ten-point composite sample was collected from the tilled-soils (SMA/SMB). In addition to TPH and BTEX, the soil sample SMA/SMB collected from the tilled-soil was further analyzed for reactivity, corrosivity and ignitability (RCI). Soil samples E2 and E3 exhibited TPH (DRO) concentrations that exceeded NMOCD hydrocarbon remediation levels (3,270 mg/Kg and 2,140 mg/Kg, respectively). The BTEX and RCI analytical results were below regulatory guidelines. The tilled soil sample (SMA/SMA) exhibited TPH and BTEX concentrations below regulatory limits and was non-reactive, non-corrosive, and non-ignitable.

On May 7, 2004, BNC conducted an additional confirmation soil sampling event. Activities conducted by CJR subsequent to the previous sampling event included over-excavation of the release Site. Two grab samples were collected from the bottom of the remedial excavation at locations with TPH concentrations previously above regulatory

levels and submitted to the laboratory for BTEX and TPH (DRO/GRO) analysis (SE and EE). The soil sample SE exhibited a TPH (DRO) concentration that exceeded NMOCD hydrocarbon remediation levels (1,180 mg/Kg). The BTEX and TPH (GRO) analytical results were below regulatory guidelines at the EE location.

BNC conducted the third and final confirmation soil sampling event on May 27, 2004 that was witnessed by NMOCD District personnel, Larry Johnson and Paul Sheely. Activities conducted by CJR subsequent to the previous sampling event included a microblaze application to enhance the remediation effort. One grab sample was collected from the bottom of the remedial excavation (bedrock) at the location that previously exhibited TPH concentrations above regulatory levels and submitted to the laboratory for TPH (DRO/GRO) analysis (SL-2). The analytical results indicated TPH (DRO/GRO) concentrations were below regulatory guidelines.

NMOCD review of this report and approval to place mixed soils back into excavation should be considered before performing subsequent activities at the Saunders Station location.

BNC appreciates this opportunity to provide environmental consulting services for BP. If you have any questions or comments with regards to this correspondence please call do not hesitate to contact our Midland office at (432) 686-0086.

Respectfully,
BNC Environmental Services, Inc.

Luke D. Markham
Project Manager

for
Will Murley, P.G.
Project Geologist

Tom Larson, P.G.
Operations Manager

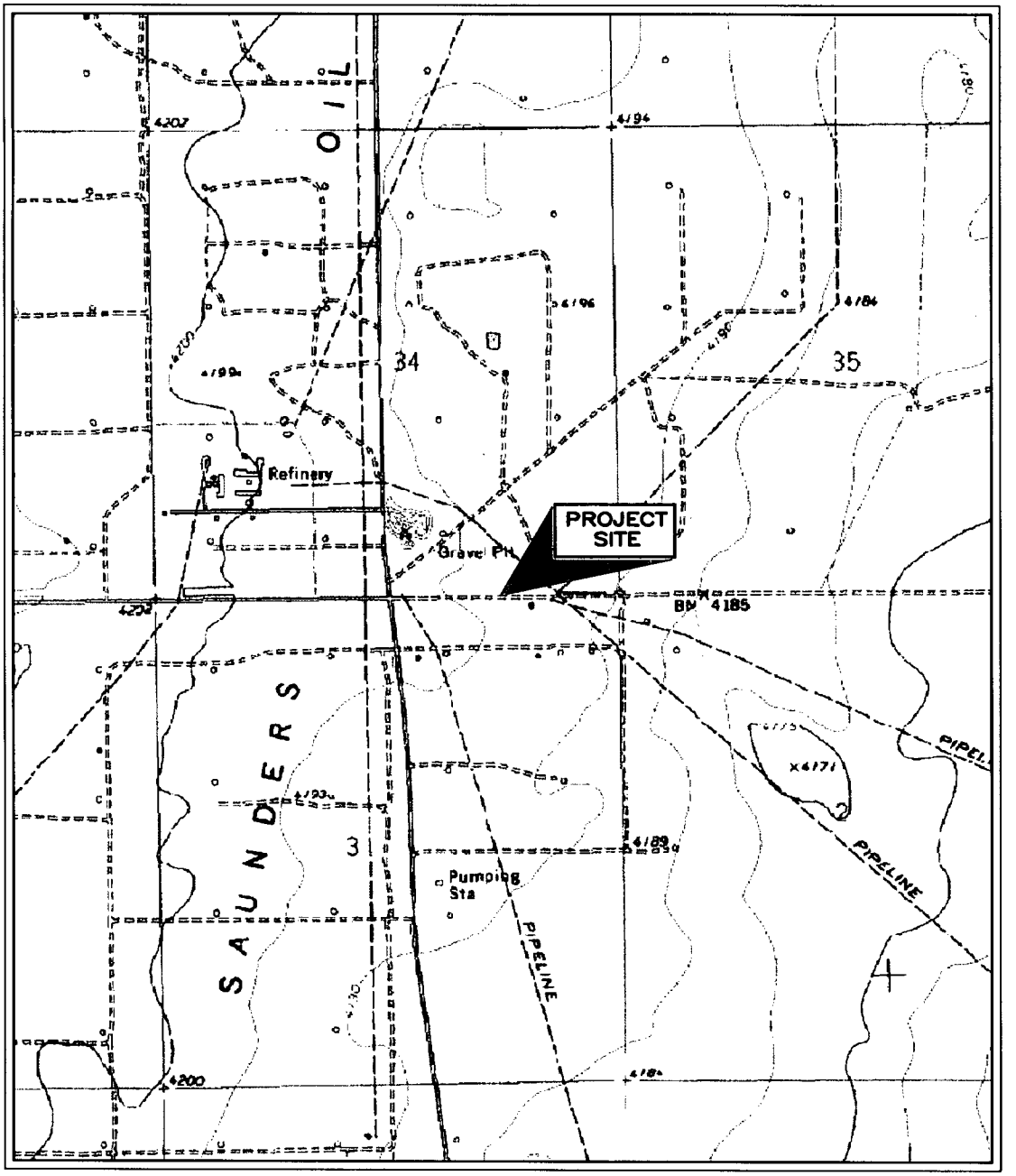
Attachments: FIGURE 1- Site Location Map
FIGURE 2- Site Details
Certified Laboratory Analytical Reports
C-141 Form

Cc: Mr. Jim Lutter, BP PIPLINES (NORTH AMERICA) INC., Levelland, Texas

FORT RANCH QUADRANGLE
NEW MEXICO

LAT=33° 3.25' N
LONG=103° 35.88' W

PHOTOREVISED 1973



SCALE 1:24000

0 1/2 1 2
(Miles)

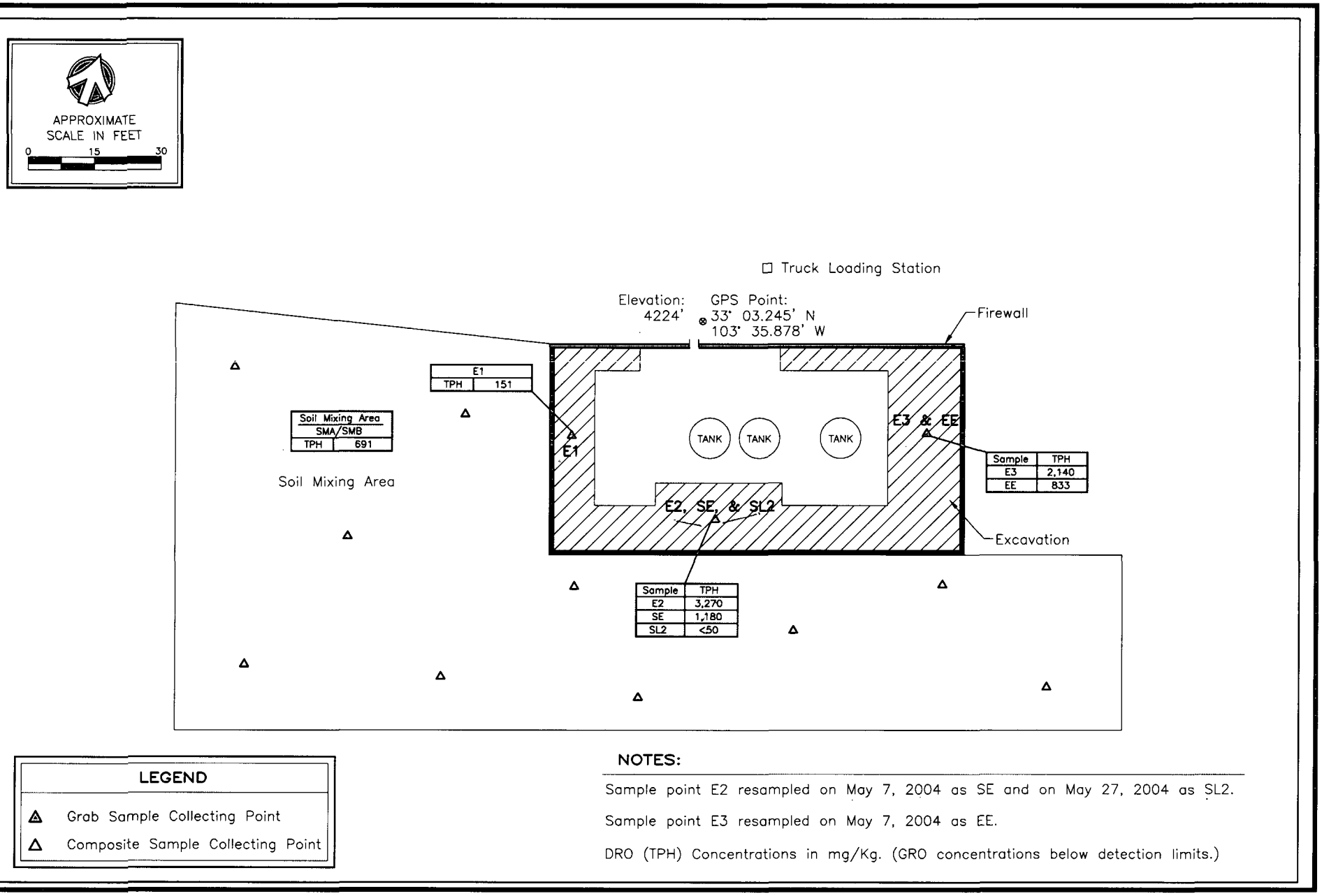
0 2000 4000 6000 8000
(Feet)

CONTOUR INTERVAL 5 FEET

NORTH

1404 SLR 040504

BNC	SITE LOCATION MAP BP PIPELINES (NORTH AMERICA) INC. SAUNDERS STATION LEA COUNY, NEW MEXICO	JOB No. 1404 FIGURE 1



1404 SLR 061804

BNC

SITE DETAILS

BP PIPELINES (NORTH AMERICA) INC.
SAUNDERS STATION LEA COUNY, NEW MEXICO

JOB No. 1404

FIGURE 2

Summary Report

Will Murley
BNC Midland
2135 South Loop 250 West
Midland, TX 79703

Report Date: March 31, 2004

Work Order: 4032514

Project Location: Lovington,NM
Project Number: 1404

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
30328	SMA/SMB	soil	2004-03-24	10:56	2004-03-25
30329	E1	soil	2004-03-24	11:02	2004-03-25
30330	E2	soil	2004-03-24	11:05	2004-03-25
30331	E3	soil	2004-03-24	11:07	2004-03-25

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
30328 - SMA/SMB	<0.0500	<0.0500	<0.0500	<0.0500	691	<5.00
30329 - E1	<0.500	<0.500	<0.500	<0.500	151	<50.0
30330 - E2	<0.500	<0.500	<0.500	0.662	3270	<50.0
30331 - E3	<0.100	<0.100	<0.100	<0.100	2140	<10.0

Sample: 30328 - SMA/SMB

Param	Flag	Result	Units	RL
Reactivity		non-reactive		0.00
Hydrogen Sulfide		<10.0	mg/Kg	10.0
Hydrogen Cyanide		<2.50	mg/Kg	2.50
Corrosivity		non-corrosive	mm/yr	0.00
pH		8.40	s.u.	0.00
Ignitability		non-ignitable		0.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Will Murley
BNC Midland
2135 South Loop 250 West
Midland, TX 79703

Report Date: March 31, 2004

Work Order: 4032514

Project Location: Lovington,NM
Project Number: 1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
30328	SMA/SMB	soil	2004-03-24	10:56	2004-03-25
30329	E1	soil	2004-03-24	11:02	2004-03-25
30330	E2	soil	2004-03-24	11:05	2004-03-25
30331	E3	soil	2004-03-24	11:07	2004-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 30328 - SMA/SMB

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	8591	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene	[1]	<0.0500	mg/Kg	50	0.00100
Toluene		<0.0500	mg/Kg	50	0.00100
Ethylbenzene		<0.0500	mg/Kg	50	0.00100
Xylene		<0.0500	mg/Kg	50	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.924	mg/Kg	50	0.100	18	74.4 - 114
4-Bromofluorobenzene (4-BFB)	[3]	0.861	mg/Kg	50	0.100	17	76.9 - 112

Sample: 30328 - SMA/SMB

Analysis:	RCI	Analytical Method:	ASTM D 5049-90/4978-95	Prep Method:	N/A
QC Batch:	8508	Date Analyzed:	2004-03-25	Analyzed By:	JH
Prep Batch:	7571	Date Prepared:	2004-03-25	Prepared By:	JH
Analysis:	RCI	Analytical Method:	S 1110	Prep Method:	N/A
Analysis:	RCI	Analytical Method:	SW-846 Ch. 7.1	Prep Method:	N/A

Parameter	Flag	Result	RL Units	Dilution	RL
Reactivity		non-reactive		1	0.00
Hydrogen Sulfide		<10.0	mg/Kg	1	10.0
Hydrogen Cyanide		<2.50	mg/Kg	1	2.50
Corrosivity		non-corrosive	mm/yr	1	0.00
pH		8.40	s.u.	1	0.00
Ignitability		non-ignitable		1	0.00

Sample: 30328 - SMA/SMB

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	8595	Date Analyzed:	2004-03-29	Analyzed By:	BP
Prep Batch:	7654	Date Prepared:	2004-03-26	Prepared By:	DS

Parameter	Flag	Result	RL Units	Dilution	RL
DRO		691	mg/Kg	1	50.0

[1]Sample diluted due to surfactants.
[2]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[3]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		230	mg/Kg	1	150	153	64.7 - 162

Sample: 30328 - SMA/SMB

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	8594	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[4]	<5.00	mg/Kg	50	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[5]	0.770	mg/Kg	50	0.100	15	51.9 - 147
4-Bromofluorobenzene (4-BFB)	[6]	0.937	mg/Kg	50	0.100	19	50.6 - 141

Sample: 30329 - E1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	8591	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[7]	<0.500	mg/Kg	500	0.00100
Toluene		<0.500	mg/Kg	500	0.00100
Ethylbenzene		<0.500	mg/Kg	500	0.00100
Xylene		<0.500	mg/Kg	500	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[8]	0.916	mg/Kg	500	0.100	2	74.4 - 114
4-Bromofluorobenzene (4-BFB)	[9]	0.889	mg/Kg	500	0.100	2	76.9 - 112

Sample: 30329 - E1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	8595	Date Analyzed:	2004-03-29	Analyzed By:	BP
Prep Batch:	7654	Date Prepared:	2004-03-26	Prepared By:	DS

continued ...

[4]Sample diluted due to surfactants.
[5]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[6]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[7]Sample diluted due to surfactants.
[8]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[9]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

sample 30329 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		151	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		163	mg/Kg	1	150	109	64.7 - 162

Sample: 30329 - E1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	8594	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[10]	<50.0	mg/Kg	500	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[11]	0.820	mg/Kg	500	0.100	2	51.9 - 147
4-Bromofluorobenzene (4-BFB)	[12]	0.00	mg/Kg	500	0.100	0	50.6 - 141

Sample: 30330 - E2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	8591	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[13]	<0.500	mg/Kg	500	0.00100
Toluene		<0.500	mg/Kg	500	0.00100
Ethylbenzene		<0.500	mg/Kg	500	0.00100
Xylene		0.662	mg/Kg	500	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[14]	0.950	mg/Kg	500	0.100	2	74.4 - 114
4-Bromofluorobenzene (4-BFB)	[15]	1.26	mg/Kg	500	0.100	2	76.9 - 112

[10]Sample diluted due to surfactants.
[11]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[12]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[13]Sample diluted due to surfactants.
[14]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[15]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Sample: 30330 - E2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	8595	Date Analyzed:	2004-03-29	Analyzed By:	BP
Prep Batch:	7654	Date Prepared:	2004-03-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		3270	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[16]	427	mg/Kg	5	30.0	285	64.7 - 162

Sample: 30330 - E2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	8594	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[17]	<50.0	mg/Kg	500	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[18]	0.890	mg/Kg	500	0.100	2	51.9 - 147
4-Bromofluorobenzene (4-BFB)	[19]	1.22	mg/Kg	500	0.100	2	50.6 - 141

Sample: 30331 - E3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	8591	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[20]	<0.100	mg/Kg	100	0.00100
Toluene		<0.100	mg/Kg	100	0.00100
Ethylbenzene		<0.100	mg/Kg	100	0.00100
Xylene		<0.100	mg/Kg	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[21]	0.890	mg/Kg	100	0.100	9	74.4 - 114
4-Bromofluorobenzene (4-BFB)	[22]	0.767	mg/Kg	100	0.100	8	76.9 - 112

[16]Surrogate recovery out of range due to peak interference. QC show the process within control.
[17]Sample diluted due to surfactants.
[18]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[19]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[20]Sample diluted due to surfactants.
[21]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[22]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Sample: 30331 - E3

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	8595	Date Analyzed:	2004-03-29	Analyzed By:	BP
Prep Batch:	7654	Date Prepared:	2004-03-26	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2140	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[23]	438	mg/Kg	5	30.0	292	64.7 - 162

Sample: 30331 - E3

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	8594	Date Analyzed:	2004-03-29	Analyzed By:	MT
Prep Batch:	7655	Date Prepared:	2004-03-29	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[24]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[25]	0.706	mg/Kg	100	0.100	7	51.9 - 147
4-Bromofluorobenzene (4-BFB)	[26]	0.770	mg/Kg	100	0.100	8	50.6 - 141

Method Blank (1) QC Batch: 8591

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.961	mg/Kg	10	0.100	96	64 - 113
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	10	0.100	84	61 - 123

Method Blank (1) QC Batch: 8594

[23] Surrogate recovery out of range due to peak interference. QC show the process within control.
[24] Sample diluted due to surfactants.
[25] Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[26] Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

Parameter	Flag	Result	Units	RL
GRO		1.79	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.937	mg/Kg	10	0.100	94	51.1 - 152
4-Bromofluorobenzene (4-BFB)		0.883	mg/Kg	10	0.100	88	40.6 - 126

Method Blank (1) QC Batch: 8595

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		134	mg/Kg	1	150	90	64.7 - 162

Duplicate (1) QC Batch: 8508

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Reactivity	non-reactive	non-reactive		1	0	
Hydrogen Sulfide	0.00	0.00	mg/Kg	1	0	20
Hydrogen Cyanide	0.00	0.00	mg/Kg	1	0	20
Corrosivity	non-corrosive	non-corrosive	mm/yr	1	0	20
pH	8.40	8.40	s.u.	1	0	20
Ignitability	non-ignitable	non-ignitable		1	0	20

Laboratory Control Spike (LCS-1) QC Batch: 8591

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	1.01	1.01	mg/Kg	10	0.100	<0.0333	101	0	76 - 115	35
Toluene	0.969	0.967	mg/Kg	10	0.100	<0.0353	97	0	75.6 - 115	36
Ethylbenzene	0.960	0.951	mg/Kg	10	0.100	<0.0339	96	1	76.3 - 112	40
Xylene	2.90	2.87	mg/Kg	10	0.300	<0.103	96	1	75.2 - 114	39

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.957	0.898	mg/Kg	10	0.100	96	90	74.4 - 114
4-Bromofluorobenzene (4-BFB)	0.933	0.889	mg/Kg	10	0.100	93	89	76.9 - 112

Laboratory Control Spike (LCS-1) QC Batch: 8594

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.4	10.6	mg/Kg	10	1.00	<0.381	104	2	67.2 - 127	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.914	0.917	mg/Kg	10	0.100	91	92	51.9 - 147
4-Bromofluorobenzene (4-BFB)	0.939	0.952	mg/Kg	10	0.100	94	95	50.6 - 141

Laboratory Control Spike (LCS-1) QC Batch: 8595

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	210	204	mg/Kg	1	250	<12.0	84	3	64.2 - 138	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	127	128	mg/Kg	1	150	85	86	64.7 - 162

Matrix Spike (MS-1) QC Batch: 8591

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.839	0.747	mg/Kg	10	0.100	<0.0333	84	12	52.2 - 110	22
Toluene	0.825	0.738	mg/Kg	10	0.100	<0.0353	82	11	43.6 - 125	20
Ethylbenzene	0.832	0.743	mg/Kg	10	0.100	<0.0339	83	11	11.8 - 158	15
Xylene	2.52	2.26	mg/Kg	10	0.300	<0.103	84	11	0 - 183	19

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.829	0.723	mg/Kg	10	0.1	83	72	36.9 - 133
4-Bromofluorobenzene (4-BFB)	0.812	0.717	mg/Kg	10	0.1	81	72	0 - 207

Matrix Spike (MS-1) QC Batch: 8594

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	7.60	7.39	mg/Kg	50	1.00	<1.91	15	3	0 - 169	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.785	0.731	mg/Kg	50	0.1	16	15	0 - 202
4-Bromofluorobenzene (4-BFB)	0.962	0.931	mg/Kg	50	0.1	19	19	0 - 2644

Matrix Spike (MS-1) QC Batch: 8595

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	191	193	mg/Kg	1	250	<12.0	76	1	62.4 - 128	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	121	120	mg/Kg	1	150	81	80	64.7 - 162

Standard (ICV-1) QC Batch: 8591

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2004-03-29
Toluene		mg/L	0.100	0.0989	99	85 - 115	2004-03-29
Ethylbenzene		mg/L	0.100	0.0976	98	85 - 115	2004-03-29
Xylene		mg/L	0.300	0.294	98	85 - 115	2004-03-29

Standard (CCV-1) QC Batch: 8591

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2004-03-29
Toluene		mg/L	0.100	0.0980	98	85 - 115	2004-03-29
Ethylbenzene		mg/L	0.100	0.0967	97	85 - 115	2004-03-29
Xylene		mg/L	0.300	0.293	98	85 - 115	2004-03-29

Standard (ICV-1) QC Batch: 8594

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-03-29

Standard (CCV-1) QC Batch: 8594

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.01	101	85 - 115	2004-03-29

Standard (ICV-1) QC Batch: 8595

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	64.2 - 138	2004-03-29

Standard (CCV-1) QC Batch: 8595

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	217	87	64.2 - 138	2004-03-29

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
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1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4032514

Company Name: BNC
Phone #: 432-686-0086
Address: (Street, City, Zip) 2135 S Loop 250 West Midland TX 79703
Fax #: 432-686-0186
Contact Person: Will Mulley
Invoice to: (If different from above)
Project #: 1404
Project Name: Saunders Station
Project Location: Lovington NM
Sampler Signature: W Mulley

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	TPH 8015 GRO/DRO					Turn Around Time if different from standard	Hold
30328	SMA / SMB (Need composite data)	2	4oz		✓							✓		3/24/04	1052	✓								✓						✓						
29	E 1	1	⎫		⎫							✓			1102	✓									✓ NC					✓						
30	E 2	1	⎬		⎬							✓			1105	✓									✓					✓						
31	E 3	1	⎭		⎭							✓		⎭	1107	✓														✓						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Will Mulley	3/24/04	1430	Helen Shelton	3/24/04	1430
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Helen Shelton	3/24/04	1700			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				3/25/04	10:59

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. Samples-HS

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LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 4° C °
Log-in Review MA

REMARKS:

☐ Check if Special Reporting Limits Are Needed

Carrier # Lone Star PS24075

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
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TraceAnalysis, Inc.

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El Paso, Texas 79932
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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4032514

Company Name: BNC
Phone #: 432-686-0086

Address: (Street, City, Zip) 2135 S Loop 250 West Midland TX 79703
Fax #: 432-686-0186

Contact Person: Will Murray

Invoice to:
(If different from above)

Project #: 1404
Project Name: Saunders Station

Project Location: Lovington NM
Sampler Signature: WM

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	TPH 8015 DRO/GRO					Turn Around Time if different from standard	Hold
30328	SMA / SMB (Need composite done)	2	4oz		✓								✓			3/24/04	1052/153		✓								✓						✓						
29	E 1	1	↓		↓								✓			↓	1102		✓								~~✓~~ NO						✓						
30	E 2	1	↓		↓								✓			↓	1105		✓								~~✓~~						✓						
31	E 3	1	✓		✓								✓			✓	1107		✓														✓						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Will Murray	3/24/04	1430	Helen Shelton	3/24/04	1430
Helen Shelton	3/24/04	1700			
			Received at Laboratory by: [signature]	3.25.04	10:57

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C °
Log-in Review MA

REMARKS:

☐ Check If Special Reporting Limits Are Needed

3131 Flp

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. Samples HS

Carrier # Lone Star P524075

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Report Date: May 18, 2004 Work Order: 4051014 Page Number: 2 of 2
1404 Lovington,NM

Summary Report

Will Murley
BNC Midland
2135 South Loop 250 West
Midland, TX 79703

Report Date: May 18, 2004
Work Order: 4051014

Project Location: Lovington,NM
Project Number: 1404

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
33466	SE	soil	2004-05-07	11:31	2004-05-10
33467	EE	soil	2004-05-07	11:34	2004-05-10

	BTEX				TPH DRO	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
33466 - SE	<0.100	<0.100	<0.100	<0.100	1180	<10.0
33467 - EE	<0.0100	<0.0100	<0.0100	<0.0100	833	<1.00

505 393-2817

Analytical and Quality Control Report

Will Murley
BNC Midland
2135 South Loop 250 West
Midland, TX 79703

Report Date: May 18, 2004

Work Order: 4051014

Project Location: Lovington,NM
Project Number: 1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
33466	SE	soil	2004-05-07	11:31	2004-05-10
33467	EE	soil	2004-05-07	11:34	2004-05-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Blair Leftwich

Dr. Blair Leftwich, Director

Analytical Report

Sample: 33466 - SE

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	9712	Date Analyzed:	2004-05-17	Analyzed By:	MT
Prep Batch:	8616	Date Prepared:	2004-05-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[1]	<0.100	mg/Kg	100	0.00100
Toluene		<0.100	mg/Kg	100	0.00100
Ethylbenzene		<0.100	mg/Kg	100	0.00100
Xylene		<0.100	mg/Kg	100	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.686	mg/Kg	100	0.100	7	74.4 - 114
4-Bromofluorobenzene (4-BFB)	[3]	0.901	mg/Kg	100	0.100	9	76.9 - 112

Sample: 33466 - SE

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	9672	Date Analyzed:	2004-05-14	Analyzed By:	BP
Prep Batch:	8588	Date Prepared:	2004-05-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1180	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[4]	292	mg/Kg	5	30.0	195	64.7 - 162

Sample: 33466 - SE

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	9713	Date Analyzed:	2004-05-17	Analyzed By:	MT
Prep Batch:	8616	Date Prepared:	2004-05-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	[5]	<10.0	mg/Kg	100	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[6]	0.675	mg/Kg	100	0.100	7	51.9 - 147

continued ...

[1] Sample diluted due to surfactants.
[2] Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[3] Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[4] Surrogate recovery out of range due to peak interference. QC show the process within control.
[5] Sample diluted due to surfactants.
[6] Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.

sample continued . . .

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)	[7]	1.13	mg/Kg	100	0.100	11	50.6 - 141

Sample: 33467 - EE

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	9712	Date Analyzed:	2004-05-17	Analyzed By:	MT
Prep Batch:	8616	Date Prepared:	2004-05-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	10	0.00100
Toluene		<0.0100	mg/Kg	10	0.00100
Ethylbenzene		<0.0100	mg/Kg	10	0.00100
Xylene		<0.0100	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.877	mg/Kg	10	0.100	88	74.4 - 114
4-Bromofluorobenzene (4-BFB)		0.872	mg/Kg	10	0.100	87	76.9 - 112

Sample: 33467 - EE

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	9672	Date Analyzed:	2004-05-14	Analyzed By:	BP
Prep Batch:	8588	Date Prepared:	2004-05-14	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		833	mg/Kg	5	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[8]	222	mg/Kg	5	30.0	148	64.7 - 162

Sample: 33467 - EE

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	9713	Date Analyzed:	2004-05-17	Analyzed By:	MT
Prep Batch:	8616	Date Prepared:	2004-05-17	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

[7]Low surrogate recovery due to matrix interference. ICV/CCV show the method to be in control.
[8]Changed spike amount from 150 to 30 due to post prep dillution.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	10	0.100	87	51.9 - 147
4-Bromofluorobenzene (4-BFB)		0.978	mg/Kg	10	0.100	98	50.6 - 141

Method Blank (1) QC Batch: 9672

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		126	mg/Kg	1	150	84	64.7 - 162

Method Blank (1) QC Batch: 9712

Parameter	Flag	Result	Units	RL
Benzene		<0.0100	mg/Kg	0.001
Toluene		<0.0100	mg/Kg	0.001
Ethylbenzene		<0.0100	mg/Kg	0.001
Xylene		<0.0100	mg/Kg	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.960	mg/Kg	10	0.100	96	64 - 113
4-Bromofluorobenzene (4-BFB)		0.787	mg/Kg	10	0.100	79	61 - 123

Method Blank (1) QC Batch: 9713

Parameter	Flag	Result	Units	RL
GRO		1.70	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.958	mg/Kg	10	0.100	96	51.1 - 152
4-Bromofluorobenzene (4-BFB)		0.860	mg/Kg	10	0.100	86	40.6 - 126

Laboratory Control Spike (LCS-1) QC Batch: 9672

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	239	238	mg/Kg	1	250	<12.0	96	0	64.2 - 138	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	127	127	mg/Kg	1	150	84	84	64.7 - 162

Laboratory Control Spike (LCS-1) QC Batch: 9712

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Benzene	0.888	0.886	mg/Kg	10	0.100	<0.0333	89	0	76 - 115	35
Toluene	0.934	0.947	mg/Kg	10	0.100	<0.0353	93	1	75.6 - 115	36
Ethylbenzene	0.954	0.968	mg/Kg	10	0.100	<0.0339	95	2	76.3 - 112	40
Xylene	2.90	2.93	mg/Kg	10	0.300	<0.103	96	1	75.2 - 114	39

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.968	0.988	mg/Kg	10	0.100	97	99	74.4 - 114
4-Bromofluorobenzene (4-BFB)	0.911	0.914	mg/Kg	10	0.100	91	91	76.9 - 112

Laboratory Control Spike (LCS-1) QC Batch: 9713

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.0	11.5	mg/Kg	10	1.00	<0.381	110	4	67.2 - 127	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.982	0.998	mg/Kg	10	0.100	98	100	51.9 - 147
4-Bromofluorobenzene (4-BFB)	0.993	1.02	mg/Kg	10	0.100	99	102	50.6 - 141

Matrix Spike (MS-1) QC Batch: 9672

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	209	213	mg/Kg	1	250	<12.0	84	2	62.4 - 128	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	120	121	mg/Kg	1	150	80	80	64.7 - 162

Matrix Spike (MS-1) QC Batch: 9713

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	12.6	12.7	mg/Kg	10	1.00	<0.381	126	1	0 - 169	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.07	mg/Kg	10	0.1	106	107	0 - 202
4-Bromofluorobenzene (4-BFB)	1.06	1.09	mg/Kg	10	0.1	106	109	0 - 2644

Standard (ICV-1) QC Batch: 9672

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	241	96	64.2 - 138	2004-05-14

Standard (CCV-1) QC Batch: 9672

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	252	101	64.2 - 138	2004-05-14

Standard (ICV-1) QC Batch: 9712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0873	87	85 - 115	2004-05-17
Toluene		mg/Kg	0.100	0.0936	94	85 - 115	2004-05-17
Ethylbenzene		mg/Kg	0.100	0.0957	96	85 - 115	2004-05-17
Xylene		mg/Kg	0.300	0.291	97	85 - 115	2004-05-17

Standard (CCV-1) QC Batch: 9712

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0910	91	85 - 115	2004-05-17
Toluene		mg/Kg	0.100	0.0980	98	85 - 115	2004-05-17
Ethylbenzene		mg/Kg	0.100	0.100	100	85 - 115	2004-05-17
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2004-05-17

Standard (ICV-1) QC Batch: 9713

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.00	100	85 - 115	2004-05-17

Standard (CCV-1) QC Batch: 9713

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.12	112	85 - 115	2004-05-17

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
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TraceAnalysis, Inc.

155 McCutcheon,Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4051014

Company Name: BNC ENV. Phone #: 432-686-0086

Address: (Street, City, Zip) 2135 S. LOOP 250 W MIDLAND, TX 79703 Fax #: 432-686-0186

Contact Person: Will Munsey

Invoice to: (If different from above)

Project #: 1404 Project Name: SAUNDERS STATION

Project Location: LOVINGTON, NM Sampler Signature: WM

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
33466	SE	1	4oz		✓							✓		5/7/04	1131
67	EE	1	4oz		✓							✓		5/7/04	1134

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/7000 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol 8260B/624 | GC/MS Semi Vol 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD TSS pH | ✓ TPH GRO/DRO | Turn Around Time if different from standard | Hold

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Will Munsey	5/7/04	1500	Helen Shelton	5/07/04	1500
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Helen Shelton	5/09/04	9:00AM			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Jicki	5-10-04	11:45

LAB USE ONLY
Intact Y N
Headspace Y / N
Temp 3° °
Log-in Review

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Fine Line GLI 166 1305 305

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 2 change -15

ORIGINAL COPY

Analytical and Quality Control Report

Will Murley
BNC Midland
2135 South Loop 250 West
Midland, TX 79703

Report Date: June 3, 2004

Work Order: 4052811

Project Location: Lovington,NM
Project Name: Saunders Station
Project Number: 1404

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
35460	SL-2	soil	2004-05-27	12:38	2004-05-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Michael Abel

Dr. Blair Leftwich, Director

Analytical Report

Sample: 35460 - SL-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	10084	Date Analyzed:	2004-05-29	Analyzed By:	BP
Prep Batch:	8930	Date Prepared:	2004-05-28	Prepared By:	DS

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		139	mg/Kg	1	150	93	64.7 - 162

Sample: 35460 - SL-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	10088	Date Analyzed:	2004-05-28	Analyzed By:	MS
Prep Batch:	8932	Date Prepared:	2004-05-28	Prepared By:	MS

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.913	mg/Kg	10	0.100	91	70 - 130
4-Bromofluorobenzene (4-BFB)		0.983	mg/Kg	10	0.100	98	70 - 130

Method Blank (1) QC Batch: 10084

Parameter	Flag	Result	Units	RL
DRO		<50.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		149	mg/Kg	1	150	99	64.7 - 162

Method Blank (1) QC Batch: 10088

Parameter	Flag	Result	Units	RL
GRO		1.92	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	10	0.100	102	70 - 130
4-Bromofluorobenzene (4-BFB)		0.900	mg/Kg	10	0.100	90	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 10084

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	237	238	mg/Kg	1	250	<12.0	95	0	64.2 - 138	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	144	144	mg/Kg	1	150	96	96	64.7 - 162

Laboratory Control Spike (LCS-1) QC Batch: 10088

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	11.0	10.5	mg/Kg	10	1.00	<0.381	110	5	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	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.02	1.08	mg/Kg	10	0.100	102	108	70 - 130
4-Bromofluorobenzene (4-BFB)	1.06	1.05	mg/Kg	10	0.100	106	105	70 - 130

Matrix Spike (MS-1) QC Batch: 10084

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
DRO	253	257	mg/Kg	1	250	<12.0	101	2	62.4 - 128	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	130	130	mg/Kg	1	150	87	87	64.7 - 162

Matrix Spike (MS-1) QC Batch: 10088

Param	MS Result	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
GRO	10.3	10.2	mg/Kg	10	1.00	<0.381	103	1	70 - 130	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.800	0.902	mg/Kg	10	0.1	80	90	70 - 130
4-Bromofluorobenzene (4-BFB)	1.02	1.03	mg/Kg	10	0.1	102	103	70 - 130

Standard (ICV-1) QC Batch: 10084

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	245	98	64.2 - 138	2004-05-29

Standard (CCV-1) QC Batch: 10084

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	275	110	64.2 - 138	2004-05-29

Standard (ICV-1) QC Batch: 10088

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.08	108	85 - 115	2004-05-28

Standard (CCV-1) QC Batch: 10088

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.04	104	85 - 115	2004-05-28

Page 1 of 1

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4052811

Company Name: BNC
Phone #: 432 686 0086
Address: (Street, City, Zip) 2135 N. LOOP 250 W. MIDLAND, TX 79703
Fax #: 432-686-0186
Contact Person: Will Murray
Invoice to: (If different from above)
Project #: 1404
Project Name: SAUNDERS STATION
Project Location: LOVINGTON, NM
Sampler Signature: WM

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
35460	SL 2	1	402		V							V		5/27/04	1228

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol 8260B/624	GC/MS Semi Vol 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD TSS pH	TPH DRO /GRO	Turn Around Time if different from standard	Hold
															X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Will Murray	5/27/04	1630	Susie Shelton	5-27-04	4:50
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Susie Shelton	5/27/04	1930			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Dean	5-28-04	9:51

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 3 °C
Log-in Review MF

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Lone Star 924285

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

xx Initial Report ☐ Final Report

Name of Company BP Pipelines (NA) Inc.	Contact Mike Stansifer
Address 502 N. West Avenue	Telephone No. 806-897-7003
Facility Name Saunders Station	Facility Type Pipeline station

Surface Owner BP Pipelines	Mineral Owner NA	Lease No. NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	3	15	33					Lea

Latitude N 33 03.223 **Longitude** W103.35.84

NATURE OF RELEASE

Type of Release Crude Oil Spill	Volume of Release 21 bbl	Volume Recovered 20
Source of Release Tank	Date and Hour 11:30 PM	Date and Hour of Discovery 11:30 PM
Was Immediate Notice Given? ☐ Yes ☐ No x Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Tank overflowed while being filled by transports. Drivers fired.

Describe Area Affected and Cleanup Action Taken.*

Tank firewall area. Oil removed and remediated in place using NMOCD cleanup level guidelines

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Mike Stansifer	OIL CONSERVATION DIVISION	
Printed Name: Mike Stansifer	Approved by District Supervisor:	
Title: Trucking Supervisor	Approval Date:	Expiration Date:
E-mail Address: stansimg@bp.com	Conditions of Approval:	Attached ☐
Date: 4/1/2004 Phone: 806-897-7003		

* Attach Additional Sheets If Necessary

COPY