NMOCD

Basin Environmental Service Technologies, LLC

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Effective Solutions

OK 10.29.07

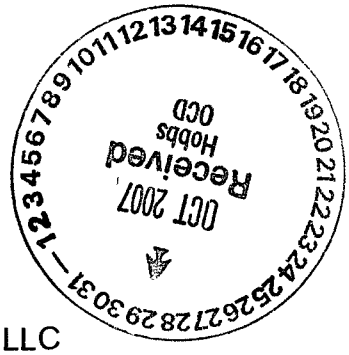
PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION PLAN

PLAINS MARKETING, L.P. (231735)
McKee 6"
Lea County, New Mexico
Plains SRS # LF-1999-20
UNIT E (SW/NW), Section 29, Township 20 South, Range 38 East
Latitude 32°, 32', 49.2" North, Longitude 103°, 10', 29.7" West
NMOCD File Number: 1RP-

Prepared For:

PLAINS

Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002



Prepared By:
Basin Environmental Service Technologies, LLC

25 October 2007

Ken Dutton
Basin Environmental Service Technologies, LLC

RP # 128

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), at the request of Plains Marketing, L.P. (Plains), has assumed oversight responsibilities for the remedial activities at the historical McKee 6" release site. The McKee 6" Pipeline is located on land owned by the United States Department of the Interior, Bureau of Land Management (BLM).

This site is located in Unit E (SW¼/NW¼) Section 29, Township 20 South, Range 38 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 32', 49.2" North and site longitude is 103°, 10', 29.7" West. The site is characterized by a pipeline right-of-way in a pasture utilized for cattle grazing with numerous crude oil and natural gas producing facilities in the vicinity. The initial visible surface stained area includes the release point and flow path area covering an area approximately 50 feet long by 50 feet wide. A total of 50 barrels of crude oil were estimated to have been released from the crude oil receiver trap and 30 barrels were recovered.

A standard One-Call was initiated prior to excavation of the McKee 6" and all responding companies either cleared or marked their respective lines. Subsequent renewals of the one-call have been accomplished as required.

Ms. Syliva Dickey, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on 09 March 1999. A C-141 form, dated 18 March 1999 was completed by EOTT Energy and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix F, NMOCD C-141). A BLM Report of Undesirable Event report was submitted on 10 March 1999, to the Carlsbad BLM office (see Appendix C, BLM Report of Undesirable Event Form).

SUMMARY OF FIELD ACTIVITIES

In May 2007, Basin mobilized to the McKee 6" crude oil release site responding to a request from Plains to initiate remediation of the historical site. Upon arrival at the release site, Basin initiated excavation of the release point and flow path area with the impacted soil stockpiled on a 6-mil poly liner adjacent to the excavation for future remedial action. The final dimensions of the excavated area are approximately 140 feet long by 75 feet wide and approximately 15 feet below ground surface (bgs) (See Figure 2, Excavation Site Map). Approximately 6000 cubic yards of impacted soil has been stockpiled on-site commensurate remediation activities.

On 14 June 2007, nine (9) confirmation soil samples were collected from the floor and walls of the excavation ranging in depth from approximately 6 to 15 feet bgs. Additionally, a delineation trench was installed adjacent to the release point to a depth of approximately 27 feet bgs below the base of the excavation with two (2) soil samples collected at approximately 17 and 27 feet bgs, respectively.

On 14 and 22 August 2007, soil boring SB-1 and soil boring SB-2 were installed to evaluate the vertical extent of crude oil impact. The soil borings were installed on the excavation floor adjacent to the release point at approximately fifteen (15) feet bgs and soil samples were collected at five (5) feet intervals. The soil borings were installed to a true subsurface depth of approximately 45 and 80 feet bgs, respectively.

ARCHEOLOGICAL SURVEY RESULTS

At the request of the BLM, Plains contacted Boone Archeological Services, LLC, Carlsbad, New Mexico, to conduct an archeological survey of the site prior to initiating remediation activities, in accordance with BLM directives. Results of the archeological survey did not find evidence of cultural resources present, and therefore, recommended archeological clearance. Results of the survey were discussed with the BLM and a copy of the archeological survey is included in Appendix D.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no groundwater data available for that section; however, the depth to groundwater map utilized by NMOCD, Hobbs District I, indicates an average depth to groundwater to the north in the same township and range to be approximately 81 to 85 feet bgs and to the south in the same township and range to be approximately 35 to 40 feet bgs. During the installation of Soil Boring 2 (SB-2) to a true subsurface depth of approximately 80 feet bgs, groundwater was not encountered. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of >19, which sets the remediation levels at:

Benzene: 10 ppm

TOTAL BTEX: 50 ppm

TPH: 100 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

The final dimensions of the excavation which includes the release point and flow path area are approximately 140 feet long by 75 feet wide and approximately 15 feet bgs. Approximately 6000 cubic yards of impacted soil has been stockpiled on-site commensurate with remediation activities conducted.

On 14 June 2007, nine (9) confirmation soil samples were collected from the floor and walls of the excavation ranging in depth from approximately 5 to 15 feet bgs. Soil samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO.

Laboratory results indicated that constituent concentrations of BTEX were not detected above laboratory method detection limits for the nine (9) soil samples. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO were not detected above laboratory method detection limits for the north floor #2, ramp, east wall #2, and south floor #1 soil samples and the west wall #2, west floor #2, north floor #2, east floor #2 and south wall #1 soil samples reported TPH-GRO/DRO concentrations below NMOCD regulatory standards.

On 14 June 2007, a delineation trench was installed adjacent to the release point on the excavation floor. Soil samples collected at depths of approximately 17 and 27 feet below the base of the excavation were submitted for analysis. Laboratory results reported that constituent concentrations of BTEX were below NMOCD regulatory standards for the two (2) soil samples. Laboratory results reported constituent concentrations of TPH-DRO/GRO exceeded NMOCD regulatory standards for the two (2) soil samples at 5180 mg/kg and 4190 mg/kg, respectively.

On 14 and 22 August 2007, Basin installed two (2) soil borings utilizing an air rotary drill rig operated by Straub Corporation, Stanton, Texas, to evaluate the vertical extent of crude oil impact at the release point on the floor of the excavation. The two soil borings ranged in depth from approximately 30 to 65 feet bgs with a true subsurface depth of approximately 45 and 80 feet bgs, respectively. Subsurface soil samples were collected at five (5) feet intervals and field screened with a Photoionization Detector (PID). No visual observations of free phase hydrocarbons (PSH) or groundwater were encountered during the installation of the soil borings. The selected samples were analyzed for constituent concentrations of BTEX and TPH-GRO/DRO. Laboratory data sheets and chain-of-custody forms are attached (Appendix B).

Soil Boring 1, as depicted on the Excavation Site Map & Soil Boring Locations (Figure 3), was installed on the floor of the excavation at a depth of approximately 30 feet bgs. The soil boring was installed to a true subsurface depth of approximately 45 feet bgs. Soil samples collected at depths of 5, 10, 20 and 30 feet below the base of the excavation were submitted for analysis. Laboratory results indicated that constituent concentrations of BTEX and TPH-GRO/DRO were not detected above laboratory method detection limits for the four (4) soil samples.

Soil Boring 2 was installed to further evaluate the vertical extent of crude oil impact on the excavation floor approximately eight (8) feet north northeast of SB-1 at approximately fifteen (15) feet bgs. Soil samples were collected at five (5) feet intervals and field screened with a PID. The soil boring was installed to a true subsurface depth of approximately 80 feet bgs. Soil samples collected at depths of 5, 10, 20, 30, 40, 50, 60 and 65 feet bgs below the base of the excavation were submitted for analysis. Laboratory results indicated that constituent concentrations of BTEX were reported below NMOCD regulatory standards for the 5, 10, 20, 30 and 40 feet soil samples and were not detected above laboratory method detection limits for the 50, 60 and 65 feet bgs soil samples. Laboratory results indicated that

constituent concentrations of TPH-GRO/DRO were reported to exceed NMOCD regulatory standards for the 5, 10, 20, 30, 40 and 50 feet bgs soil samples at 1646 mg/kg, 1029 mg/kg, 1432 mg/kg, 2122 mg/kg, 2196 mg/kg and 374 mg/kg, respectively. Laboratory results indicated that constituent concentrations of TPH-GRO/DRO were reported below NMOCD regulatory standards for the 60 and 65 feet bgs soil samples. Based on the results of the laboratory data, soil impacts appear to be limited in lateral extent and to a subsurface depth of less than 65 feet.

RECOMMENDATIONS FOR REMEDIATION

Approximately 6000 cubic yards of impacted soil and clean overburden have been excavated and stockpiled on-site resulting from the emergency response and remediation activities. Basin and Plains propose to blend the excavated impacted soils with the clean overburden. The blended soil will be divided into equal cell grids of approximately 500 cubic yards. Confirmation soil samples from the blended material will be collected to ensure TPH-GRO/DRO concentrations of less than 500 mg/kg.

Due to the limited vertical crude oil impact derived from analytical results commensurate with excavation and drilling activities, Plains recommends than an impermeable barrier consisting of a 20-mil poly liner be permanently installed at the base of the excavation to inhibit vertical migration of contaminants in soil left in place below the cap (see Figure 5, Installation Diagram of 20-mil Poly Liner). The barrier will extend to a minimum of three (3) feet beyond the edges of soil impacted above NMOCD remedial thresholds. A 6-inch layer of fine cushion sand will be installed beneath and above the 20-mil poly liner to prevent degrading the integrity of the poly liner. Installation of the 20-mil poly liner at a depth of approximately 15 feet bgs will protect the barrier from erosion and human intrusion for a term sufficient to allow natural attenuation of contaminates in the soil.

Once the installation of the 20-mil poly liner is completed, backfilling of the excavation will be initiated with the blended material which has met the 500 mg/kg THP-GRO/DRO threshold. Once backfilling has been completed, the backfilled excavation will be contoured to the original grade surrounding the site and reseeded with approved BLM grass seed.

Upon completion of backfilling the excavation, Basin on behalf of Plains, will submit a closure request for NMOCD approval. Basin on behalf of Plains, request approval from NMOCD, Hobbs District I, to implement these proposed final remediation and site closure activities based on the remediation activities conducted at the McKee 6" crude oil release site.

QA/QC PROCEDURES

Soil Sampling

Soil samples were delivered to Trace Analysis, Inc., in Midland, Texas for BTEX, TPH-GRO/DRO analyses using the methods described below. Soil samples were analyzed for BTEX, TPH-GRO/DRO within fourteen days following the collection date.

The soil samples were analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8021B, 5030
- TPH concentrations in accordance with modified EPA Method 8015M GRO/DRO

Decontamination Of Equipment

Cleaning of the sampling equipment will be the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment will be cleaned with Liqui-Nox® detergent and rinsed with distilled water.

Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures will be either transmitted with the laboratory reports or are on file at the laboratory.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Remediation/Closure Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, L.P. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and Plains Marketing, L.P.

DISTRIBUTION

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Copy 3

TABLE 1

SOIL CHEMISTRY RESULTS

PLAINS MARKETING, L.P.
MCKEE 6-INCH
LEA COUNTY, NEW MEXICO
SRS: LF-1999-20

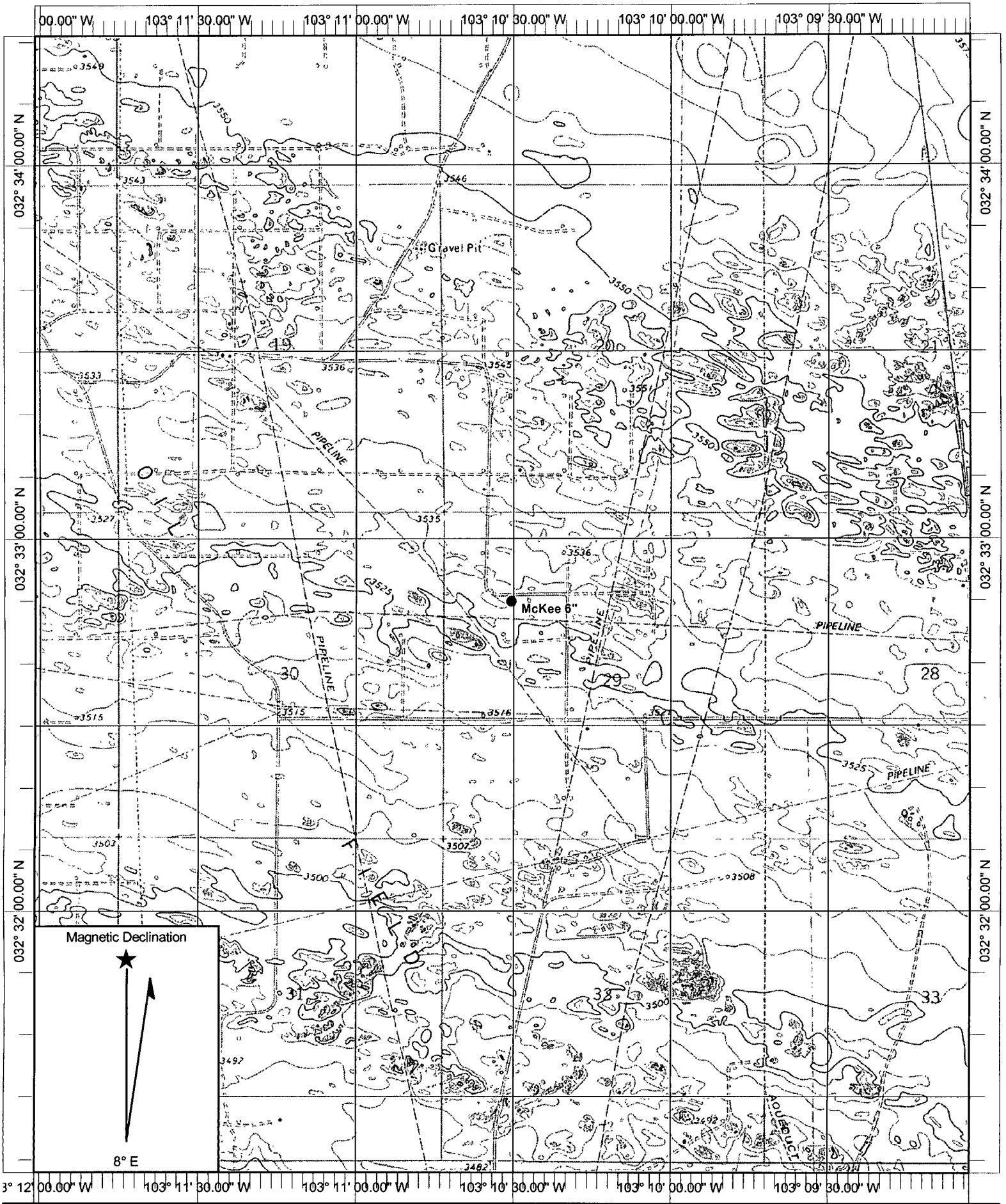
SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M		TOTAL TPH
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GRO	DRO	
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
West Wall # 2	6' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	57	6	63
West Floor # 2	15' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	1.35	1.35
North Wall # 2	6' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	1.03	1.03
North Floor # 2	15' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	<1.0	<1.0
Ramp	12' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	<1.0	<1.0
East Wall # 2	6' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	<1.0	<1.0
East Floor # 2	15' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	1.64	1.64
South Wall # 1	6' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	1.04	1.04
South Floor # 1	15' bgs	06/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<50	<1.0	<1.0
Trench 17'	17' bgs	06/14/07	In-Situ	0.155	2.12	2.75	9.28	2040	3140	5180
Trench 27'	27' bgs	06/14/07	In-Situ	<0.010	0.342	0.467	7.51	2190	2000	4190
North Stock Pile	N/A	06/15/07	Stockpile	<0.010	0.098	0.052	1.42	614	1820	2434
South Stock Pile	N/A	06/15/07	Stockpile	<0.010	<0.010	<0.010	0.157	277	44	321
East Stock Pile	N/A	06/15/07	Stockpile	<0.010	0.047	<0.010	0.239	991	62	1053
West Stock Pile	N/A	06/15/07	Stockpile	<0.010	<0.010	<0.010	<0.010	625	36	661
N S/P	N/A	05/07/07	Stockpile					29	1300	1329

TABLE 1 (cont)

SOIL CHEMISTRY RESULTS

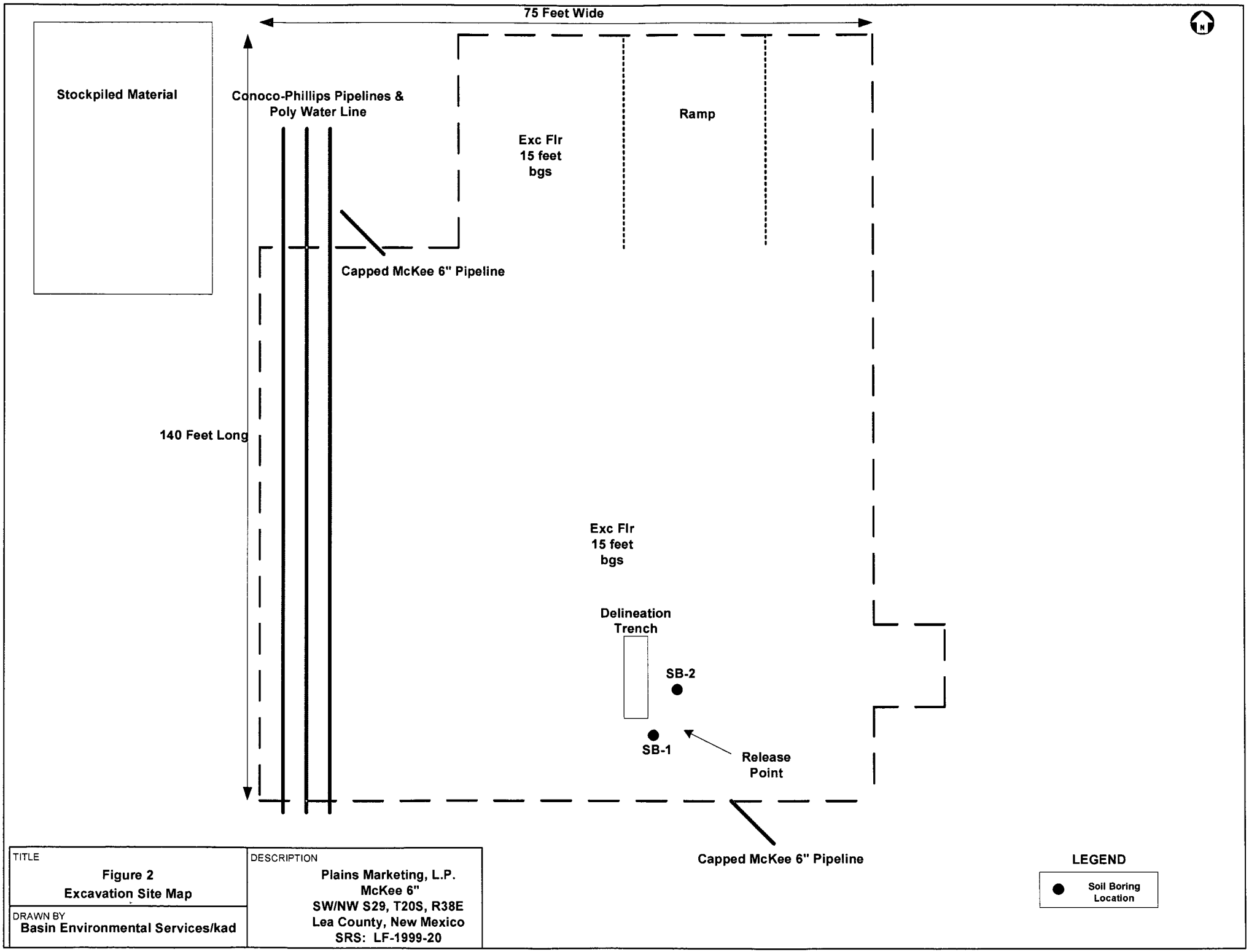
PLAINS MARKETING, L.P.
MCKEE 6-INCH
LEA COUNTY, NEW MEXICO
SRS: LF-1999-20

SAMPLE LOCATION	SAMPLE DEPTH (Below normal surface grade)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M		TOTAL TPH
				BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GRO	DRO	
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1 5'	20' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<1	<50	<50
SB-1 10"	25' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<1	<50	<50
SB-1 20'	35' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<1	<50	<50
SB-1 30'	45' bgs	08/14/07	In-Situ	<0.010	<0.010	<0.010	<0.010	<1	<50	<50
SB-2 5'	20' bgs	08/22/07	In-Situ	<0.020	<0.020	<0.020	0.503	126	1520	1646
SB-2 10"	25' bgs	08/22/07	In-Situ	<0.020	<0.020	<0.020	0.863	132	897	1029
SB-2 20"	35' bgs	08/22/07	In-Situ	<0.020	<0.020	<0.020	3.91	222	1210	1432
SB-2 30"	45' bgs	08/22/07	In-Situ	<0.020	0.709	1.06	6.26	262	1860	2122
SB-2 40'	55' bgs	08/22/07	In-Situ	<0.020	<0.020	0.267	1.21	146	2050	2196
SB-2 50'	65' bgs	08/22/07	In-Situ	<0.010	<0.010	<0.010	<0.010	18	356	374
SB-2 60'	75' bgs	08/22/07	In-Situ	<0.010	<0.010	<0.010	<0.010	3	<50	3
SB-2 65'	80' bgs	08/22/07	In-Situ	<0.010	<0.010	<0.010	<0.010	3	<50	3
NMOCD CRITERIA				**10**	**TOTAL BTEX 50**					**100**

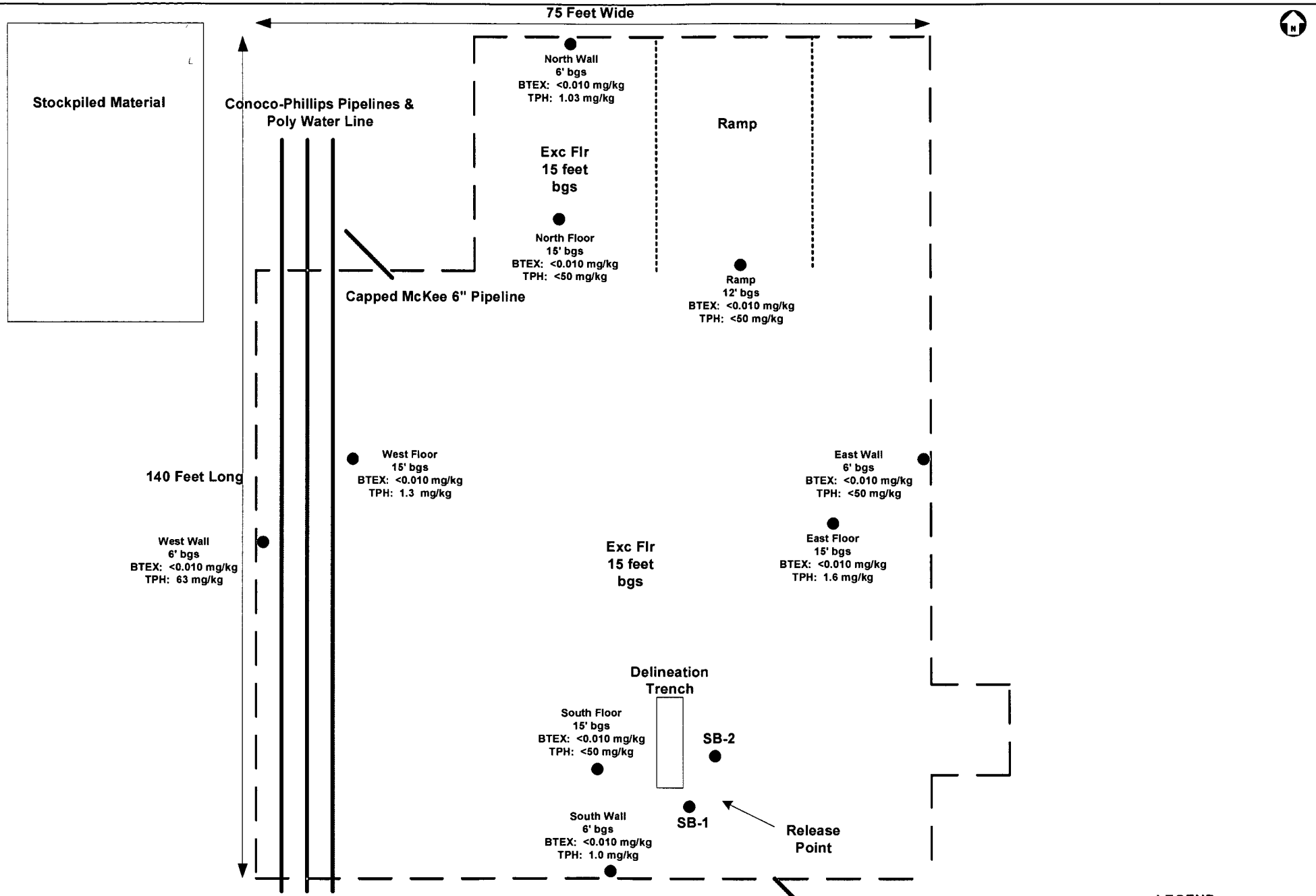


Name: HOBBS SW
Date: 10/26/2007
Scale: 1 inch equals 2000 feet

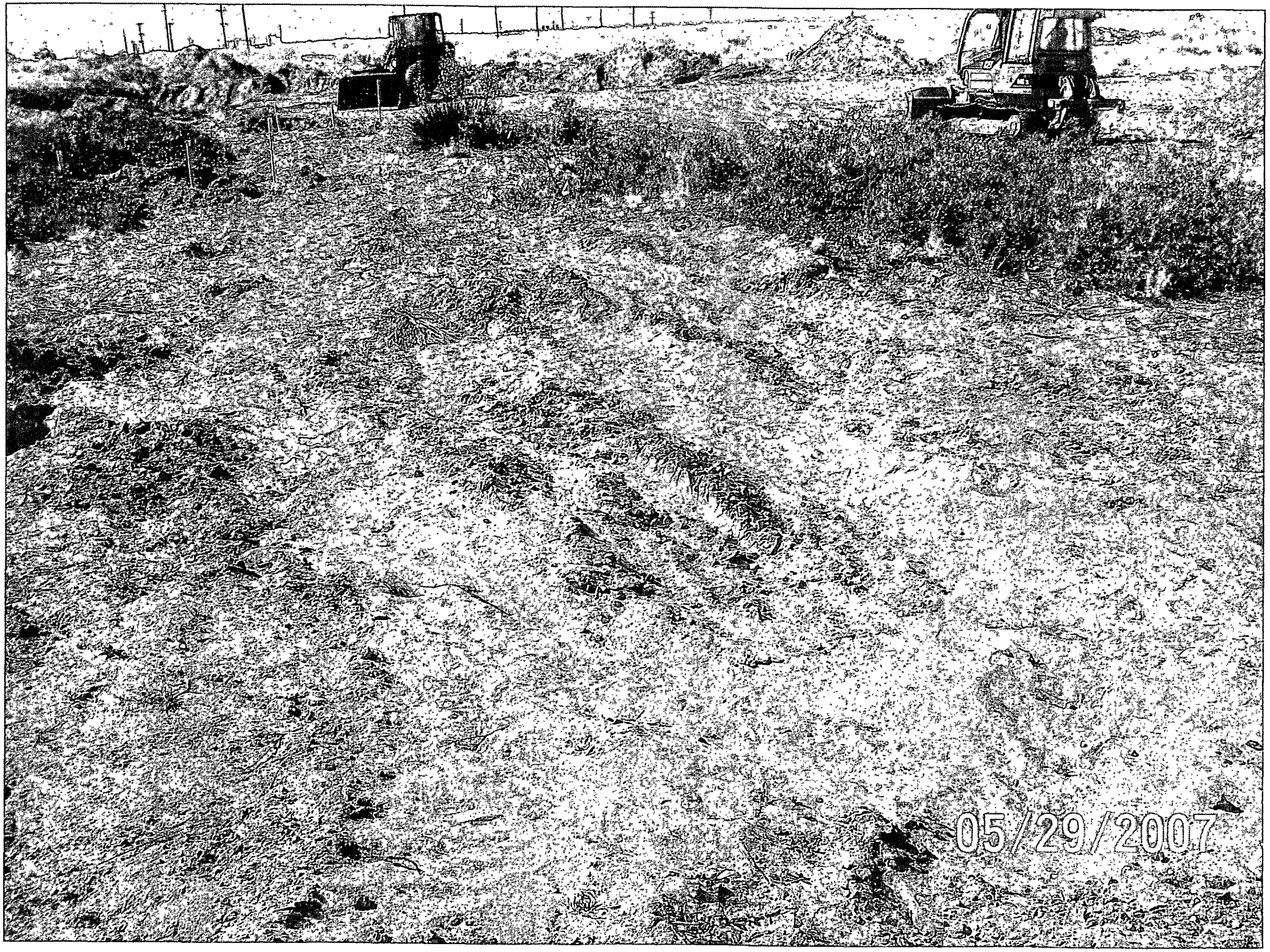
Location: 032° 32' 49.49" N 103° 10' 32.11" W NAD 27
Caption: Figure 1, Site Location Map
Plains Marketing, L. P.
McKee 6"



TITLE	DESCRIPTION
Figure 2 Excavation Site Map	Plains Marketing, L.P. McKee 6" SW/NW S29, T20S, R38E Lea County, New Mexico SRS: LF-1999-20
DRAWN BY Basin Environmental Services/kad	



TITLE **Figure 3** **Excavation Site Map – Soil Sampling & Soil Boring Locations**	DESCRIPTION **Plains Marketing, L.P.** **McKee 6"** **SW/NW S29, T20S, R38E** **Lea County, New Mexico** **SRS: LF-1999-20**
DRAWN BY **Basin Environmental Services/kad**	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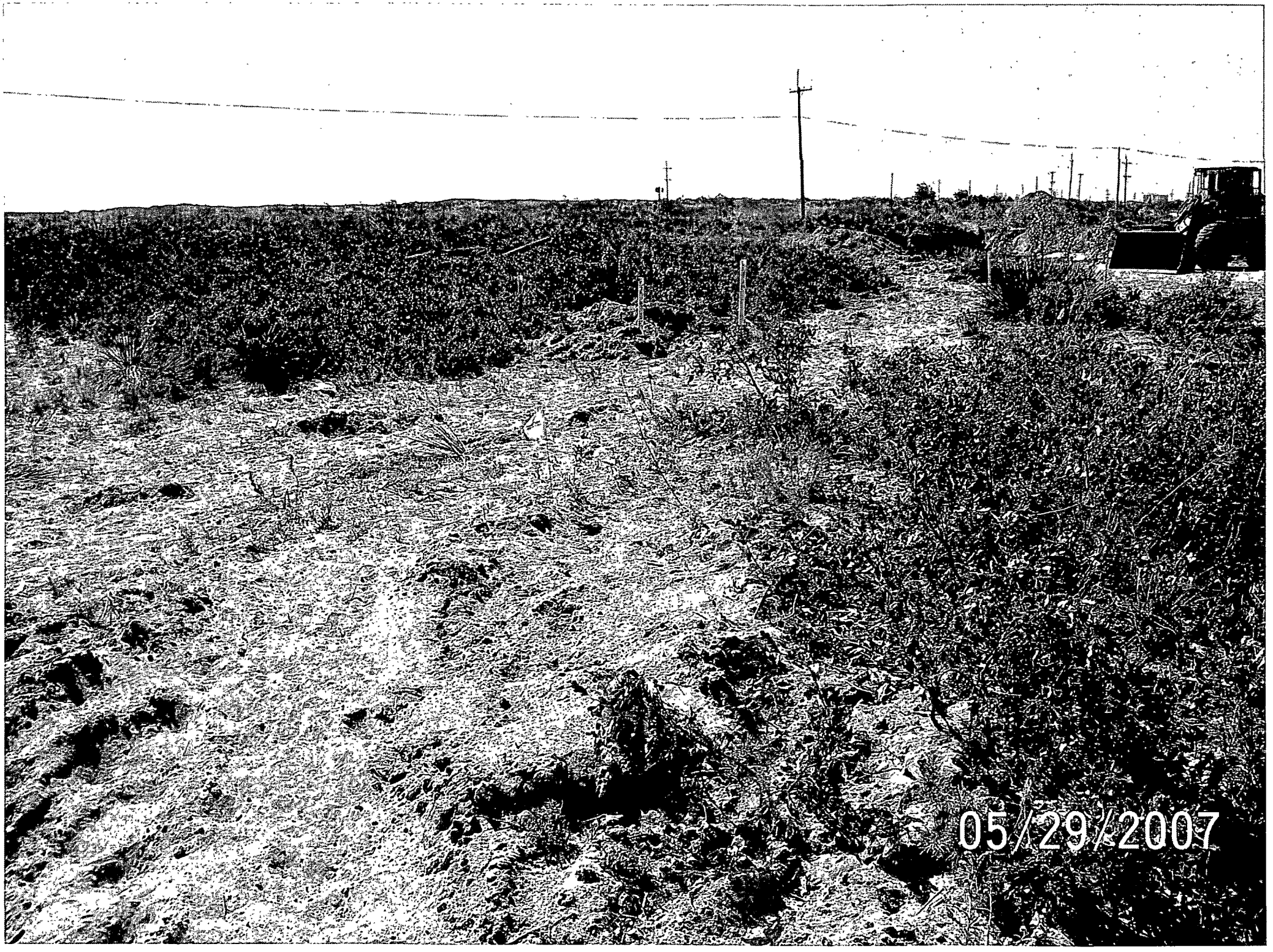
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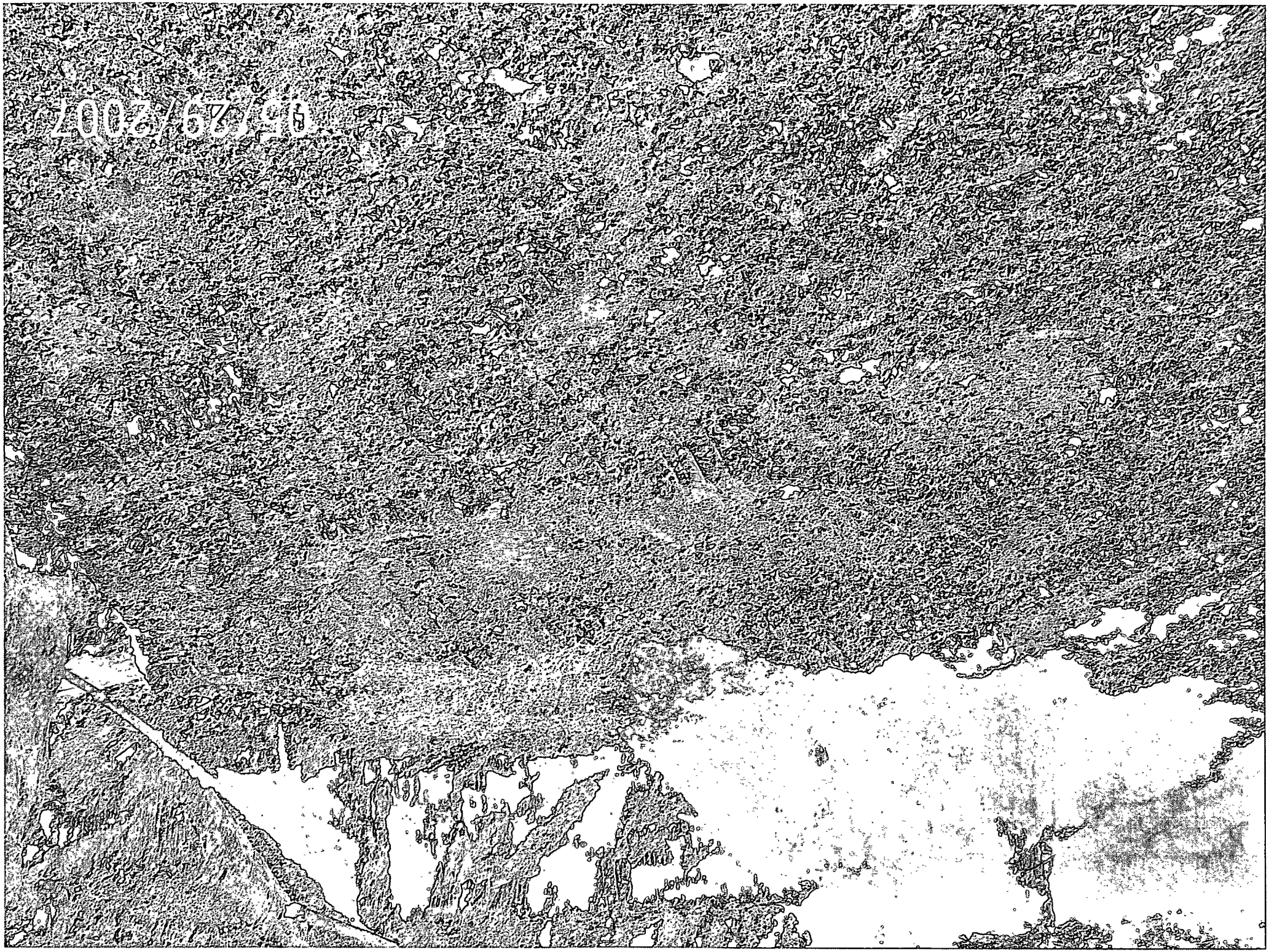

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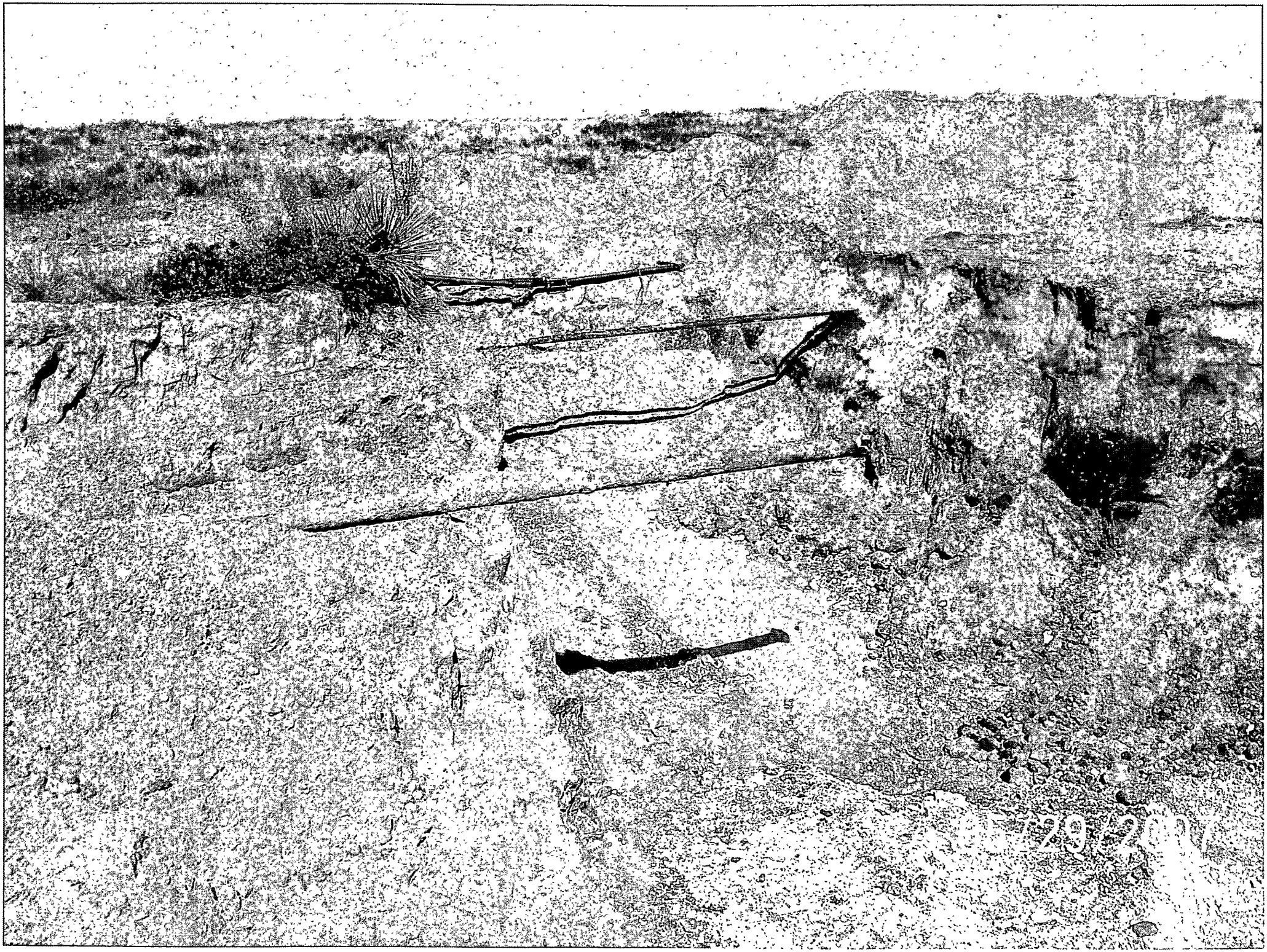

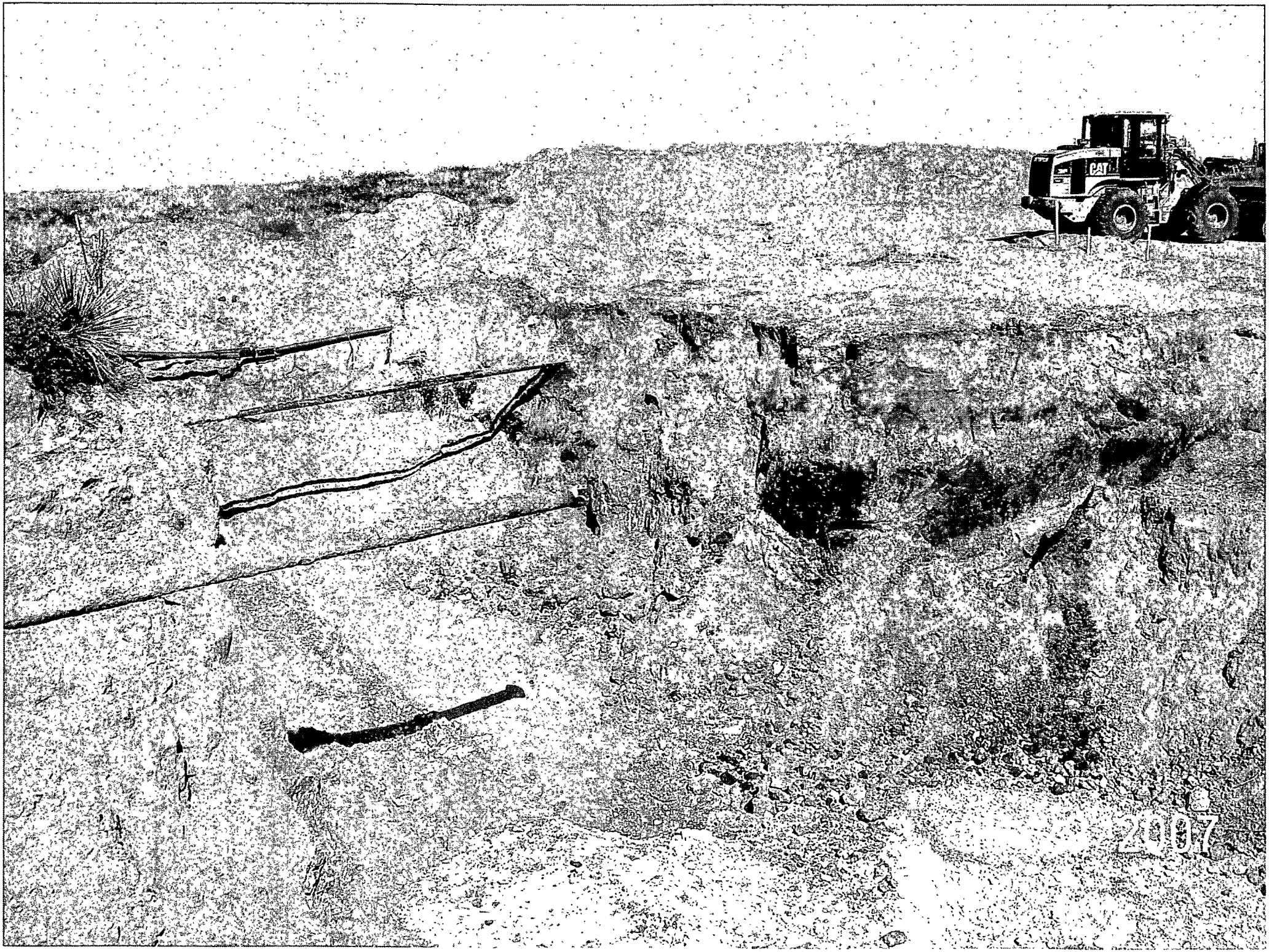
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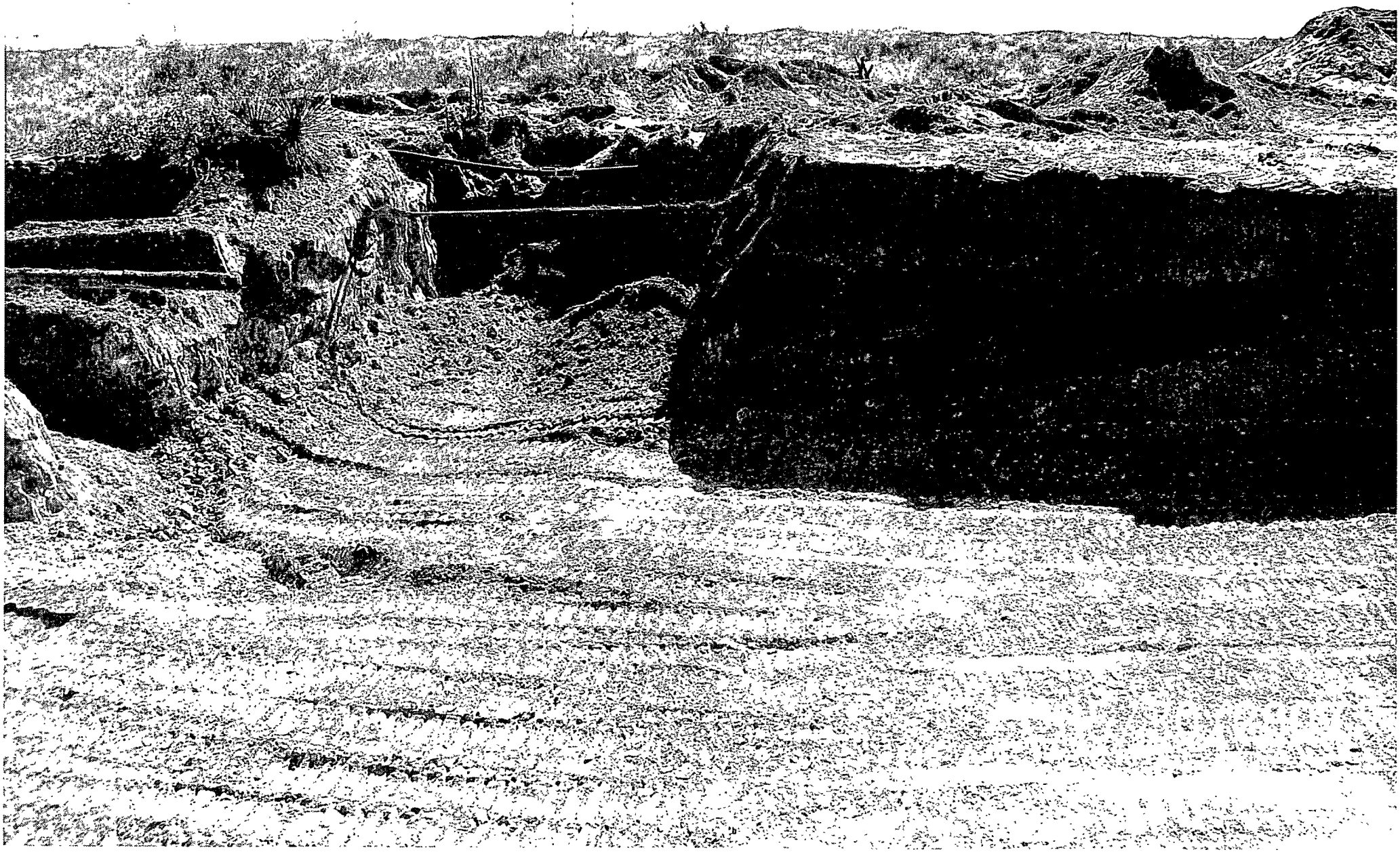

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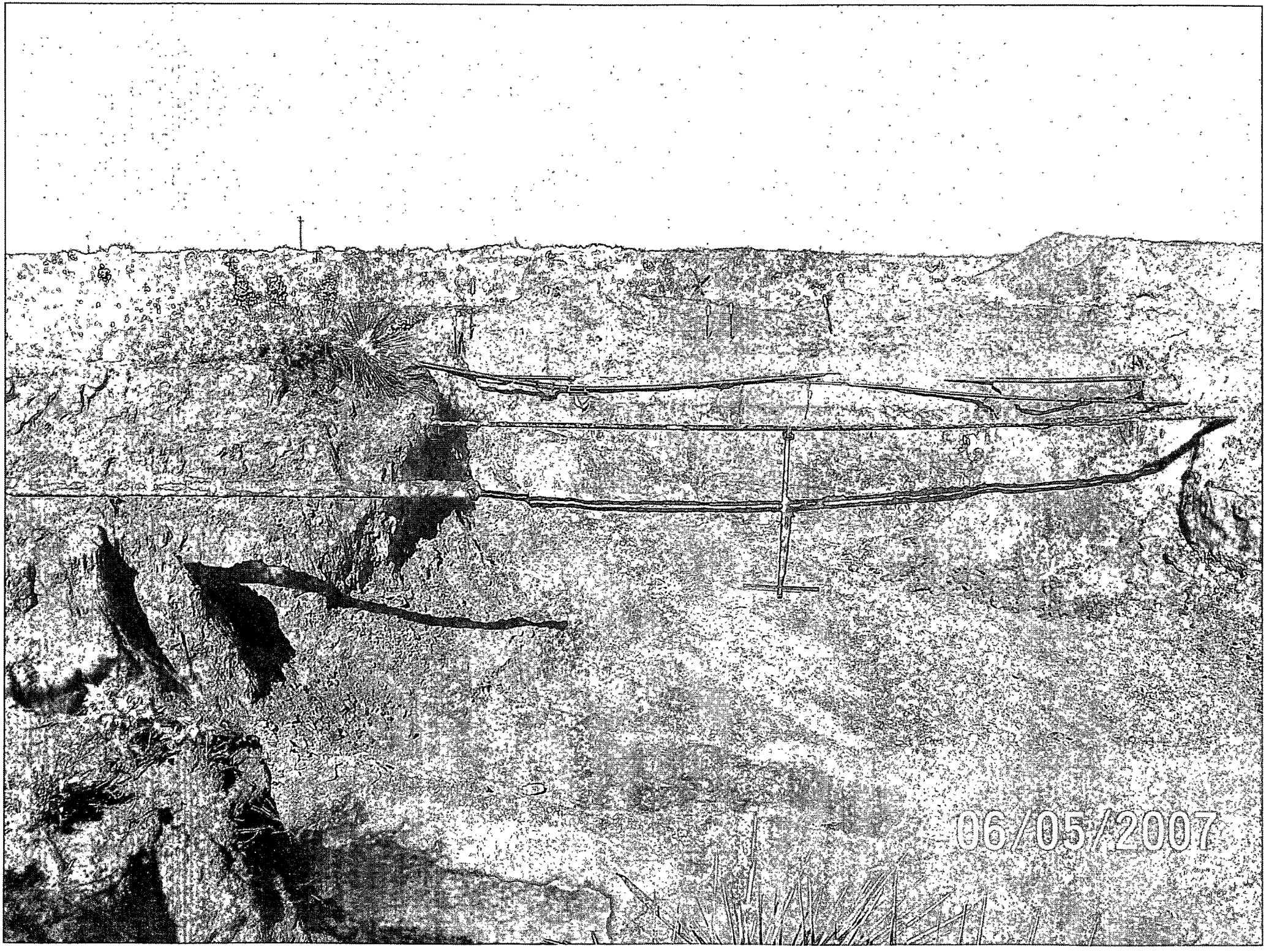
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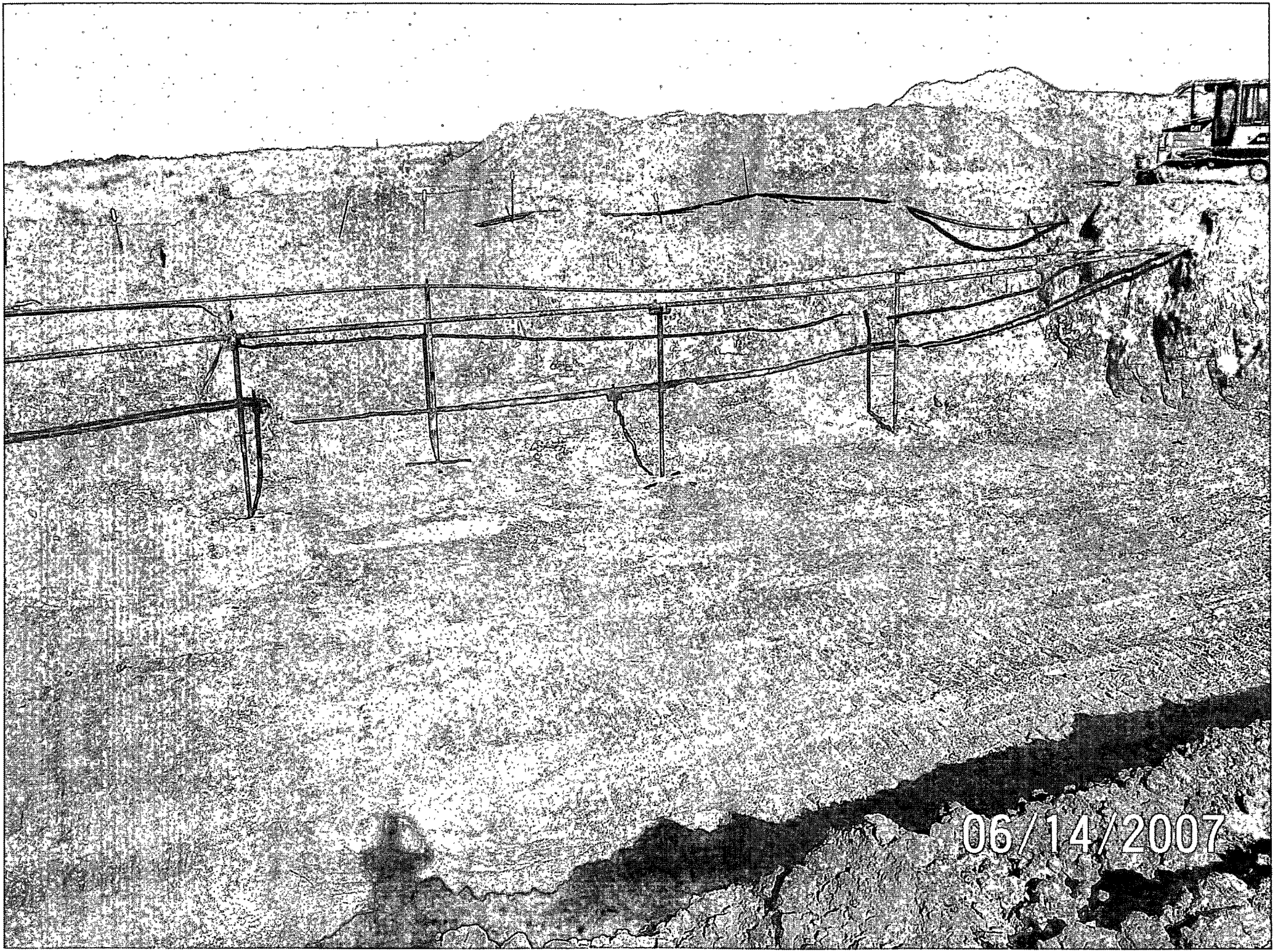
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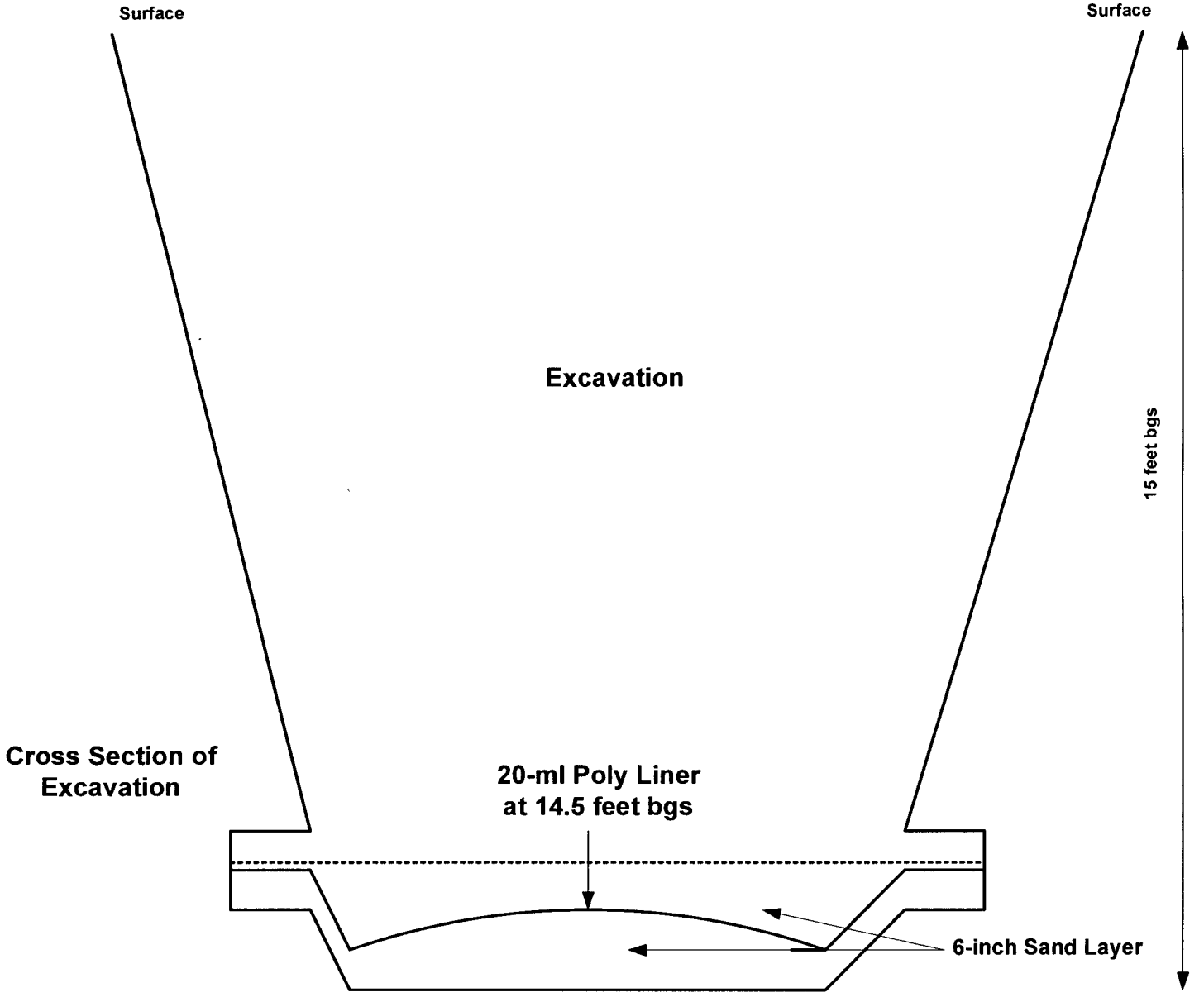
McKee 6"
SRS: LF-1999-20
20-ml Poly-Liner Installation



TITLE: Figure 5 McKee 6"	DATE: 22 October 2007
DRAWN BY: Basin Environmental Services KAD	LABEL: Installation of 20 ml Poly Liner

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 20S Range: 38E Sections: 29

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic ◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

POD / SURFACE DATA REPORT 05/18/2007

DB File Nbr	Use	(acre ft per annum) Diversion	Owner	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest Source	Tws	Rng	Sec	q	q	q	X Y are in Feet Zone	X	Y	UTM are in UTM_Zone	E

No Records found, try again

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: August 29, 2007

Work Order: 7082428

Project Location: Lea County, NM
Project Name: McKee 6
Project Number: SRS# LF-1999-20

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
134344	SB-2 5'	soil	2007-08-22	09:05	2007-08-24
134345	SB-2 10'	soil	2007-08-22	09:10	2007-08-24
134346	SB-2 20'	soil	2007-08-22	09:32	2007-08-24
134347	SB-2 30'	soil	2007-08-22	09:54	2007-08-24
134348	SB-2 40'	soil	2007-08-22	10:06	2007-08-24
134349	SB-2 50'	soil	2007-08-22	10:22	2007-08-24
134350	SB-2 60'	soil	2007-08-22	10:28	2007-08-24
134351	SB-2 65'	soil	2007-08-22	10:32	2007-08-24

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

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 134344 - SB-2 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0200		mg/Kg	2	0.0100
Toluene		<0.0200		mg/Kg	2	0.0100
Ethylbenzene		<0.0200		mg/Kg	2	0.0100
Xylene		**0.503**		mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.79	mg/Kg	2	2.00	90	39.6 - 116
4-Bromofluorobenzene (4-BFB)		2.47	mg/Kg	2	2.00	124	47.3 - 144.2

Sample: 134344 - SB-2 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**1520**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	388	mg/Kg	1	150	259	17.3 - 169.6

Sample: 134344 - SB-2 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**126**		mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.65	mg/Kg	2	2.00	82	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[2]	3.30	mg/Kg	2	2.00	165	50.8 - 131.6

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

Sample: 134345 - SB-2 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	2	0.0100
Toluene		<0.0200	mg/Kg	2	0.0100
Ethylbenzene		<0.0200	mg/Kg	2	0.0100
Xylene		**0.863**	mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	2	2.00	85	39.6 - 116
4-Bromofluorobenzene (4-BFB)		2.51	mg/Kg	2	2.00	126	47.3 - 144.2

Sample: 134345 - SB-2 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**897**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		256	mg/Kg	1	150	171	17.3 - 169.6

Sample: 134345 - SB-2 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**132**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	2	2.00	80	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[3]	3.55	mg/Kg	2	2.00	178	50.8 - 131.6

[3]High surrogate recovery due to peak interference.

Sample: 134346 - SB-2 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	2	0.0100
Toluene		<0.0200	mg/Kg	2	0.0100
Ethylbenzene		<0.0200	mg/Kg	2	0.0100
Xylene		**3.91**	mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.40	mg/Kg	2	2.00	70	39.6 - 116
4-Bromofluorobenzene (4-BFB)	[4]	2.94	mg/Kg	2	2.00	147	47.3 - 144.2

Sample: 134346 - SB-2 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1210**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[5]	280	mg/Kg	1	150	187	17.3 - 169.6

Sample: 134346 - SB-2 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**222**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.37	mg/Kg	2	2.00	68	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[6]	5.65	mg/Kg	2	2.00	282	50.8 - 131.6

[4]High surrogate recovery due to peak interference.
[5]High surrogate recovery due to peak interference.
[6]High surrogate recovery due to peak interference.

Sample: 134347 - SB-2 30'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	2	0.0100
Toluene		**0.709**	mg/Kg	2	0.0100
Ethylbenzene		**1.06**	mg/Kg	2	0.0100
Xylene		**6.26**	mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.33	mg/Kg	2	2.00	66	39.6 - 116
4-Bromofluorobenzene (4-BFB)	[7]	3.87	mg/Kg	2	2.00	194	47.3 - 144.2

Sample: 134347 - SB-2 30'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**1860**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[8]	401	mg/Kg	1	150	267	17.3 - 169.6

Sample: 134347 - SB-2 30'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**262**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	2	2.00	58	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[9]	7.78	mg/Kg	2	2.00	389	50.8 - 131.6

[7]High surrogate recovery due to peak interference.
[8]High surrogate recovery due to peak interference.
[9]High surrogate recovery due to peak interference.

Sample: 134348 - SB-2 40'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	2	0.0100
Toluene		<0.0200	mg/Kg	2	0.0100
Ethylbenzene		**0.267**	mg/Kg	2	0.0100
Xylene		**1.21**	mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.66	mg/Kg	2	2.00	83	39.6 - 116
4-Bromofluorobenzene (4-BFB)		2.73	mg/Kg	2	2.00	136	47.3 - 144.2

Sample: 134348 - SB-2 40'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2050**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[10]	745	mg/Kg	1	150	497	17.3 - 169.6

Sample: 134348 - SB-2 40'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**146**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	2	2.00	85	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[11]	4.52	mg/Kg	2	2.00	226	50.8 - 131.6

[10] High surrogate recovery due to peak interference.
[11] High surrogate recovery due to peak interference.

Sample: 134349 - SB-2 50'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.987	mg/Kg	1	1.00	99	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	47.3 - 144.2

Sample: 134349 - SB-2 50'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**356**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		200	mg/Kg	1	150	133	17.3 - 169.6

Sample: 134349 - SB-2 50'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**18.3**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.827	mg/Kg	1	1.00	83	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	50.8 - 131.6

Sample: 134350 - SB-2 60'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.952	mg/Kg	1	1.00	95	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	47.3 - 144.2

Sample: 134350 - SB-2 60'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

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		150	mg/Kg	1	150	100	17.3 - 169.6

Sample: 134350 - SB-2 60'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**3.53**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[12]	0.911	mg/Kg	1	1.00	91	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.18	mg/Kg	1	1.00	118	50.8 - 131.6

[12]High surrogate recovery due to peak interference.

Sample: 134351 - SB-2 65'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40496	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.954	mg/Kg	1	1.00	95	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	47.3 - 144.2

Sample: 134351 - SB-2 65'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	Sample Preparation:	2007-08-27	Prepared By:	

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		143	mg/Kg	1	150	95	17.3 - 169.6

Sample: 134351 - SB-2 65'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40540	Date Analyzed:	2007-08-24	Analyzed By:	
Prep Batch:	35014	Sample Preparation:	2007-08-24	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2.69**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.769	mg/Kg	1	1.00	77	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	50.8 - 131.6

Method Blank (1) QC Batch: 40468

QC Batch:	40468	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35011	QC Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		98.3	mg/Kg	1	150	66	32.9 - 156.1

Method Blank (1) QC Batch: 40496

QC Batch: 40496 Date Analyzed: 2007-08-24 Analyzed By:
Prep Batch: 35014 QC Preparation: 2007-08-24 Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.933	mg/Kg	1	1.00	93	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.993	mg/Kg	1	1.00	99	53.1 - 111.6

Method Blank (1) QC Batch: 40540

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By:
Prep Batch: 35014 QC Preparation: 2007-08-24 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40468 Date Analyzed: 2007-08-27 Analyzed By:
Prep Batch: 35011 QC Preparation: 2007-08-27 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	174	mg/Kg	1	250	<13.4	70	49.1 - 142.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	170	mg/Kg	1	250	<13.4	68	49.1 - 142.3	2	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	96.9	99.6	mg/Kg	1	150	65	66	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40496 | Date Analyzed: 2007-08-24 | Analyzed By:
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.943	mg/Kg	1	1.00	<0.00110	94	71.2 - 119
Toluene	0.987	mg/Kg	1	1.00	<0.00150	99	76.3 - 116.5
Ethylbenzene	0.988	mg/Kg	1	1.00	<0.00160	99	77.6 - 114
Xylene	2.93	mg/Kg	1	3.00	<0.00410	98	78.8 - 113.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.957	mg/Kg	1	1.00	<0.00110	96	71.2 - 119	2	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	76.3 - 116.5	1	20
Ethylbenzene	0.990	mg/Kg	1	1.00	<0.00160	99	77.6 - 114	0	20
Xylene	2.99	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	2	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)	0.909	0.898	mg/Kg	1	1.00	91	90	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.945	0.956	mg/Kg	1	1.00	94	96	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40540 | Date Analyzed: 2007-08-24 | Analyzed By:
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.21	mg/Kg	1	10.0	<0.739	82	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.12	mg/Kg	1	10.0	<0.739	91	56 - 105.2	10	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)	0.970	0.970	mg/Kg	1	1.00	97	97	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.990	0.993	mg/Kg	1	1.00	99	99	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 134346

QC Batch: 40468 | Date Analyzed: 2007-08-27 | Analyzed By:
Prep Batch: 35011 | QC Preparation: 2007-08-27 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	1380	mg/Kg	1	250	1210	68	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [13]	909	mg/Kg	1	250	1210	0	30.2 - 201.4	41	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	247	199	mg/Kg	1	150	165	133	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133920

QC Batch: 40496 | Date Analyzed: 2007-08-24 | Analyzed By:
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.884	mg/Kg	1	1.00	<0.00110	88	65.7 - 119.1
Toluene	0.916	mg/Kg	1	1.00	<0.00150	92	47.7 - 153.8
Ethylbenzene	0.944	mg/Kg	1	1.00	<0.00160	94	73.5 - 126.3
Xylene	2.82	mg/Kg	1	3.00	<0.00410	94	73.6 - 125.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.946	mg/Kg	1	1.00	<0.00110	95	65.7 - 119.1	7	20
Toluene	0.968	mg/Kg	1	1.00	<0.00150	97	47.7 - 153.8	6	20
Ethylbenzene	0.962	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	2	20
Xylene	2.85	mg/Kg	1	3.00	<0.00410	95	73.6 - 125.9	1	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)	0.946	0.892	mg/Kg	1	1	95	89	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.03	0.912	mg/Kg	1	1	103	91	60.3 - 124.3

[13] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 134125

QC Batch: 40540 | Date Analyzed: 2007-08-24 | Analyzed By:
Prep Batch: 35014 | QC Preparation: 2007-08-24 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.22	mg/Kg	1	10.0	<0.739	77	10 - 102.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	6.85	mg/Kg	1	10.0	<0.739	63	10 - 102.2	18	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)	0.791	0.747	mg/Kg	1	1	79	75	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.03	mg/Kg	1	1	104	103	58 - 162.6

Standard (ICV-1)

QC Batch: 40468 | Date Analyzed: 2007-08-27 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	243	97	85 - 115	2007-08-27

Standard (CCV-1)

QC Batch: 40468 | Date Analyzed: 2007-08-27 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	217	87	85 - 115	2007-08-27

Standard (CCV-2)

QC Batch: 40468 | Date Analyzed: 2007-08-27 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	228	91	85 - 115	2007-08-27

Standard (ICV-1)

QC Batch: 40496 | Date Analyzed: 2007-08-24 | Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.108	108	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.107	107	85 - 115	2007-08-24
Xylene		mg/Kg	0.300	0.320	107	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40496 Date Analyzed: 2007-08-24 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Toluene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-24
Ethylbenzene		mg/Kg	0.100	0.0967	97	85 - 115	2007-08-24
Xylene		mg/Kg	0.300	0.290	97	85 - 115	2007-08-24

Standard (ICV-1)

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-08-24

Standard (CCV-1)

QC Batch: 40540 Date Analyzed: 2007-08-24 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.954	95	85 - 115	2007-08-24

WO # 7082428

TRACE ANALYSIS, INC.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

5002 Basin Street, Suite A1
Midland, Texas 79703
Phone: 432-689-6301
Fax: 432-689-6313

Project Manager: Ken Dutton PAGE 01 OF 01
Company Name: Basin Environmental Service Technologies, LLC
Company Address: P. O. Box 301
City/State/Zip: Lovington, NM 88260
Telephone No: (505) 441-2124 Fax No: (505) 396-1429
Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

Project Name: MCKEE 6"
Project #: SRS: LF-1999-20
Project Loc: Lea County, NM
PO #: INVOICE TO PLAINS MARKETING
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Screened	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge; GW = Groundwater S = Soil/Solid; NP = Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300.0			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
343344	SB-2 5'	0	5	22-Aug-07	0905		1	X								SOIL	X								X							X
345	SB-2 10'	5	10	22-Aug-07	0910		1	X								SOIL	X								X							X
346	SB-2 20'	15	20	22-Aug-07	0932		1	X								SOIL	X								X							X
347	SB-2 30'	25	30	22-Aug-07	0954		1	X								SOIL	X								X							X
348	SB-2 40'	35	40	22-Aug-07	1006		1	X								SOIL	X								X							X
349	SB-2 50'	45	50	22-Aug-07	1022		1	X								SOIL	X								X							X
350	SB-2 60'	55	60	22-Aug-07	1028		1	X								SOIL	X								X							X
351	SB-2 65'	60	65	22-Aug-07	1032		1	X								SOIL	X								X							X

Special Instructions:
EMAIL RESULTS: kdutton@basinenv.com & cjreynolds@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	24 Aug 07	0920	Lynda Blackwood	Aug 24, 07	9:20
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Lynda Blackwood	Date Aug 24, 07	Time 2:10	Received by Trace:	Date 8/24/07	Time 14:00

Laboratory Comments:

Sample Containers Intact?	(Y)	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	(Y)	N
Custody seals on container(s)	(Y)	N
Custody seals on cooler(s)	(Y)	N
Sample Hand Delivered	(Y)	N
by Sampler/Client Rep. ?	(Y)	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 1.3 °C

TRACEANALYSIS, INC.

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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
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Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: August 21, 2007

Work Order: 7081731

Project Location: Lea County, NM
Project Name: McKee 6
Project Number: SRS# LF-1999-20

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
133619	SB-1, 5'	soil	2007-08-14	11:49	2007-08-17
133620	SB-1, 10'	soil	2007-08-14	11:52	2007-08-17
133621	SB-1, 20'	soil	2007-08-14	12:03	2007-08-17
133622	SB-1, 30'	soil	2007-08-14	12:07	2007-08-17

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

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 133619 - SB-1, 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40257	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		<0.0100		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.998	mg/Kg	1	1.00	100	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	47.3 - 144.2

Sample: 133619 - SB-1, 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40189	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34780	Sample Preparation:	2007-08-17	Prepared By:	

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		234	mg/Kg	1	150	156	17.3 - 169.6

Sample: 133619 - SB-1, 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40261	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	0.915	mg/Kg	1	1.00	92	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	50.8 - 131.6

[1] High surrogate recovery. Sample non-detect, result bias high.

Sample: 133620 - SB-1, 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40257	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.963	mg/Kg	1	1.00	96	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	47.3 - 144.2

Sample: 133620 - SB-1, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40189	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34780	Sample Preparation:	2007-08-17	Prepared By:	

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		220	mg/Kg	1	150	147	17.3 - 169.6

Sample: 133620 - SB-1, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40261	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.826	mg/Kg	1	1.00	83	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	50.8 - 131.6

Sample: 133621 - SB-1, 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40257	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.973	mg/Kg	1	1.00	97	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	1	1.00	109	47.3 - 144.2

Sample: 133621 - SB-1, 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40189	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34780	Sample Preparation:	2007-08-17	Prepared By:	

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		192	mg/Kg	1	150	128	17.3 - 169.6

Sample: 133621 - SB-1, 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40261	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.950	mg/Kg	1	1.00	95	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	50.8 - 131.6

[2]High surrogate recovery. Sample non-detect, result bias high.

Sample: 133622 - SB-1, 30'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40257	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.975	mg/Kg	1	1.00	98	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	47.3 - 144.2

Sample: 133622 - SB-1, 30'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40189	Date Analyzed:	2007-08-17	Analyzed By:	
Prep Batch:	34780	Sample Preparation:	2007-08-17	Prepared By:	

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		180	mg/Kg	1	150	120	17.3 - 169.6

Sample: 133622 - SB-1, 30'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40261	Date Analyzed:	2007-08-20	Analyzed By:	
Prep Batch:	34840	Sample Preparation:	2007-08-20	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[3]	0.936	mg/Kg	1	1.00	94	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	50.8 - 131.6

[3]High surrogate recovery. Sample non-detect, result bias high.

Method Blank (1) QC Batch: 40189

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34780 | QC Preparation: 2007-08-17 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		203	mg/Kg	1	150	135	32.9 - 156.1

Method Blank (1) QC Batch: 40257

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	53.1 - 111.6

Method Blank (1) QC Batch: 40261

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34780 | QC Preparation: 2007-08-17 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	291	mg/Kg	1	250	<13.4	116	49.1 - 142.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	283	mg/Kg	1	250	<13.4	113	49.1 - 142.3	3	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	181	188	mg/Kg	1	150	121	125	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.978	mg/Kg	1	1.00	<0.00110	98	71.2 - 119
Toluene	1.03	mg/Kg	1	1.00	<0.00150	103	76.3 - 116.5
Ethylbenzene	1.04	mg/Kg	1	1.00	<0.00160	104	77.6 - 114
Xylene	3.11	mg/Kg	1	3.00	<0.00410	104	78.8 - 113.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.944	mg/Kg	1	1.00	<0.00110	94	71.2 - 119	4	20
Toluene	1.00	mg/Kg	1	1.00	<0.00150	100	76.3 - 116.5	3	20
Ethylbenzene	1.02	mg/Kg	1	1.00	<0.00160	102	77.6 - 114	2	20
Xylene	3.01	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	3	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)	1.00	1.06	mg/Kg	1	1.00	100	106	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	1.01	0.996	mg/Kg	1	1.00	101	100	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.50	mg/Kg	1	10.0	<0.739	85	56 - 105.2

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.43	mg/Kg	1	10.0	<0.739	94	56 - 105.2	10	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)	1.01	0.994	mg/Kg	1	1.00	101	99	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	1.05	1.03	mg/Kg	1	1.00	105	103	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 133542

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:
Prep Batch: 34780 | QC Preparation: 2007-08-17 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	226	mg/Kg	1	250	<13.4	90	30.2 - 201.4

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	246	mg/Kg	1	250	<13.4	98	30.2 - 201.4	8	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	190	168	mg/Kg	1	150	127	112	10 - 194

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00110	103	65.7 - 119.1
Toluene	1.12	mg/Kg	1	1.00	<0.00150	112	47.7 - 153.8
Ethylbenzene	1.17	mg/Kg	1	1.00	<0.00160	117	73.5 - 126.3
Xylene	3.47	mg/Kg	1	3.00	<0.00410	116	73.6 - 125.9

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.13	mg/Kg	1	1.00	<0.00110	113	65.7 - 119.1	9	20
Toluene	1.20	mg/Kg	1	1.00	<0.00150	120	47.7 - 153.8	7	20
Ethylbenzene	1.24	mg/Kg	1	1.00	<0.00160	124	73.5 - 126.3	6	20
Xylene	3.72	mg/Kg	1	3.00	<0.00410	124	73.6 - 125.9	7	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)	0.962	0.970	mg/Kg	1	1	96	97	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.04	1.02	mg/Kg	1	1	104	102	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 133622

QC Batch: 40261 | Date Analyzed: 2007-08-20 | Analyzed By:
Prep Batch: 34840 | QC Preparation: 2007-08-20 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.56	mg/Kg	1	10.0	<0.739	89	10 - 102.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.3	mg/Kg	1	10.0	<0.739	97	10 - 102.2	8	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)	[4]	0.982	0.844	mg/Kg	1	1	98	84	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)		1.06	1.04	mg/Kg	1	1	106	104	58 - 162.6

Standard (CCV-2)

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	268	107	85 - 115	2007-08-17

Standard (CCV-3)

QC Batch: 40189 | Date Analyzed: 2007-08-17 | Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	277	111	85 - 115	2007-08-17

Standard (ICV-1)

QC Batch: 40257 | Date Analyzed: 2007-08-20 | Analyzed By:

[4]High surrogate recovery due to peak interference.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0917	92	85 - 115	2007-08-20
Toluene		mg/Kg	0.100	0.0953	95	85 - 115	2007-08-20
Ethylbenzene		mg/Kg	0.100	0.0969	97	85 - 115	2007-08-20
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2007-08-20

Standard (CCV-1)

QC Batch: 40257 Date Analyzed: 2007-08-20 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0973	97	85 - 115	2007-08-20
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2007-08-20
Ethylbenzene		mg/Kg	0.100	0.104	104	85 - 115	2007-08-20
Xylene		mg/Kg	0.300	0.306	102	85 - 115	2007-08-20

Standard (ICV-1)

QC Batch: 40261 Date Analyzed: 2007-08-20 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.04	104	85 - 115	2007-08-20

Standard (CCV-1)

QC Batch: 40261 Date Analyzed: 2007-08-20 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.05	105	85 - 115	2007-08-20

TRACE ANALYSIS, INC.

work order: 7081731

COPY

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

5002 Basin Street, Suite A1
Midland, Texas 79703
Phone: 432-689-6301
Fax: 432-689-6313

Project Manager: Ken Dutton PAGE 01 OF 01 Project Name: MCKEE 6"

Company Name: Basin Environmental Service Technologies, LLC Project #: SRS: LF-1999-20

Company Address: P. O. Box 301 Project Loc: Lea County, NM

City/State/Zip: Lovington, NM 88260 PO #: INVOICE TO PLAINS MARKETING

Telephone No: (505) 441-2124 Fax No: (505) 396-1429 Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

(lab use only)
ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Screened	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Sol	NP=Non-Potable Specify Oth	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300.0	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
133619	SB-1 5'	0	5	14-Aug-07	1149		1	X								SOIL			X								X					X
620	SB-1 10'	5	10	14-Aug-07	1152		1	X								SOIL			X								X					X
621	SB-1 20'	15	20	14-Aug-07	1203		1	X								SOIL			X								X					X
622	SB-1 30'	25	30	14-Aug-07	1207		1	X								SOIL			X								X					X

Special Instructions:
EMAIL RESULTS: kdutton@basinenv.com & cjreynolds@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton 17	Aug 07	0845	Linda Blackwood	Aug 17,07	845
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Linda Blackwood	Date Aug 17,07	Time 1265 1:10	Received by Trace:	Date 8/17/07	Time 12:55 13:10

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) N
Custody seals on cooler(s) N
Sample Hand Delivered N
by Sampler/Client Rep.? N
by Courier? UPS DHL FedEx Lone Star
4 02 9 1.55
Temperature Upon Receipt: 2.0 °C

All test - Midland LP

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street Suite A1 Midland Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway Suite 110 Ft Worth Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
Basin Environmental Service Tech LLC
P.O. Box 301
Lovington, NM, 88260

Report Date: June 26, 2007

Work Order: 7061534

Project Location: Lea County, NM
Project Name: McKee 6
Project Number: SRS# LF-1999-20

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
127628	West Wall #2	soil	2007-06-14	14:10	2007-06-15
127629	West Floor #2	soil	2007-06-14	14:15	2007-06-15
127630	North Wall #2	soil	2007-06-14	14:40	2007-06-15
127631	North Floor #2	soil	2007-06-14	14:45	2007-06-15
127632	Ramp	soil	2007-06-14	14:50	2007-06-15
127633	East Wall #2	soil	2007-06-14	15:10	2007-06-15
127634	East Floor #2	soil	2007-06-14	15:15	2007-06-15
127635	South Wall #1	soil	2007-06-14	15:25	2007-06-15
127636	South Floor #1	soil	2007-06-14	15:20	2007-06-15
127637	Trench 17'	soil	2007-06-14	15:35	2007-06-15
127638	Trench 27'	soil	2007-06-14	15:55	2007-06-15
127639	North Stock Pile	soil	2007-06-15	10:00	2007-06-15
127640	South Stock Pile	soil	2007-06-15	10:10	2007-06-15
127641	East Stock Pile	soil	2007-06-15	10:20	2007-06-15
127642	West Stock Pile	soil	2007-06-15	10:30	2007-06-15

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

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 127628 - West Wall #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		<0.0100		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.901	mg/Kg	1	1.00	90	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.970	mg/Kg	1	1.00	97	51.1 - 119.1

Sample: 127628 - West Wall #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38384	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**57.6**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	309	mg/Kg	1	150	206	32.9 - 167

Sample: 127628 - West Wall #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**5.75**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.824	mg/Kg	1	1.00	82	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	67.5 - 140.3

[1] High surrogate recovery due to peak interference.

Sample: 127629 - West Floor #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.899	mg/Kg	1	1.00	90	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.974	mg/Kg	1	1.00	97	51.1 - 119.1

Sample: 127629 - West Floor #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		137	mg/Kg	1	150	91	32.9 - 167

Sample: 127629 - West Floor #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.35**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.817	mg/Kg	1	1.00	82	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	1	1.00	94	67.5 - 140.3

Sample: 127630 - North Wall #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.919	mg/Kg	1	1.00	92	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	51.1 - 119.1

Sample: 127630 - North Wall #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		176	mg/Kg	1	150	117	32.9 - 167

Sample: 127630 - North Wall #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.03**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.795	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.991	mg/Kg	1	1.00	99	67.5 - 140.3

Sample: 127631 - North Floor #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.908	mg/Kg	1	1.00	91	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.985	mg/Kg	1	1.00	98	51.1 - 119.1

Sample: 127631 - North Floor #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		209	mg/Kg	1	150	139	32.9 - 167

Sample: 127631 - North Floor #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.812	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.964	mg/Kg	1	1.00	96	67.5 - 140.3

Sample: 127632 - Ramp

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.912	mg/Kg	1	1.00	91	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.997	mg/Kg	1	1.00	100	51.1 - 119.1

Sample: 127632 - Ramp

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		157	mg/Kg	1	150	105	32.9 - 167

Sample: 127632 - Ramp

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.807	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.972	mg/Kg	1	1.00	97	67.5 - 140.3

Sample: 127633 - East Wall #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.913	mg/Kg	1	1.00	91	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.971	mg/Kg	1	1.00	97	51.1 - 119.1

Sample: 127633 - East Wall #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		146	mg/Kg	1	150	97	32.9 - 167

Sample: 127633 - East Wall #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.821	mg/Kg	1	1.00	82	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.952	mg/Kg	1	1.00	95	67.5 - 140.3

Sample: 127634 - East Floor #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.889	mg/Kg	1	1.00	89	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	51.1 - 119.1

Sample: 127634 - East Floor #2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		169	mg/Kg	1	150	113	32.9 - 167

Sample: 127634 - East Floor #2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.64**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.797	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.980	mg/Kg	1	1.00	98	67.5 - 140.3

Sample: 127635 - South Wall #1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.911	mg/Kg	1	1.00	91	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	1	1.00	98	51.1 - 119.1

Sample: 127635 - South Wall #1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		155	mg/Kg	1	150	103	32.9 - 167

Sample: 127635 - South Wall #1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.04**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.803	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	67.5 - 140.3

Sample: 127636 - South Floor #1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.886	mg/Kg	1	1.00	89	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	51.1 - 119.1

Sample: 127636 - South Floor #1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

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		150	mg/Kg	1	150	100	32.9 - 167

Sample: 127636 - South Floor #1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.809	mg/Kg	1	1.00	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	67.5 - 140.3

Sample: 127637 - Trench 17'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.155**	mg/Kg	1	0.0100
Toluene		**2.12**	mg/Kg	1	0.0100
Ethylbenzene		**2.75**	mg/Kg	1	0.0100
Xylene	[2]	**9.28**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.665	mg/Kg	1	1.00	66	26 - 117.8
4-Bromofluorobenzene (4-BFB)	[3]	1.30	mg/Kg	1	1.00	130	51.1 - 119.1

Sample: 127637 - Trench 17'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2040**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		250	mg/Kg	1	150	167	32.9 - 167

Sample: 127637 - Trench 17'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38482	Date Analyzed:	2007-06-25	Analyzed By:	JW
Prep Batch:	33303	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**3140**	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		27.6	mg/Kg	50	50.0	55	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[4]	157	mg/Kg	50	50.0	314	67.5 - 140.3

[2]Estimated concentration value greater than standard range.
[3]High surrogate recovery due to peak interference.
[4]High surrogate recovery due to peak interference.

Sample: 127638 - Trench 27'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.342**	mg/Kg	1	0.0100
Ethylbenzene		**0.467**	mg/Kg	1	0.0100
Xylene	[5]	**7.51**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.728	mg/Kg	1	1.00	73	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.676	mg/Kg	1	1.00	68	51.1 - 119.1

Sample: 127638 - Trench 27'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**2190**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		184	mg/Kg	1	150	123	32.9 - 167

Sample: 127638 - Trench 27'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38482	Date Analyzed:	2007-06-25	Analyzed By:	JW
Prep Batch:	33303	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**2000**	mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		33.0	mg/Kg	50	50.0	66	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[6]	85.9	mg/Kg	50	50.0	172	67.5 - 140.3

[5]Estimated concentration value greater than standard range.
[6]High surrogate recovery due to peak interference.

Sample: 127639 - North Stock Pile

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		**0.0985**		mg/Kg	1	0.0100
Ethylbenzene		**0.0529**		mg/Kg	1	0.0100
Xylene		**1.42**		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.648	mg/Kg	1	1.00	65	26 - 117.8
4-Bromofluorobenzene (4-BFB)	[7]	1.23	mg/Kg	1	1.00	123	51.1 - 119.1

Sample: 127639 - North Stock Pile

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**614**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		235	mg/Kg	1	150	157	32.9 - 167

Sample: 127639 - North Stock Pile

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38482	Date Analyzed:	2007-06-25	Analyzed By:	JW
Prep Batch:	33303	Sample Preparation:		Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**1820**		mg/Kg	50	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		40.4	mg/Kg	50	50.0	81	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[8]	86.6	mg/Kg	50	50.0	173	67.5 - 140.3

[7] High surrogate recovery due to peak interference.
[8] High surrogate recovery due to peak interference.

Sample: 127640 - South Stock Pile

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.157**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.857	mg/Kg	1	1.00	86	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	51.1 - 119.1

Sample: 127640 - South Stock Pile

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**277**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		159	mg/Kg	1	150	106	32.9 - 167

Sample: 127640 - South Stock Pile

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**44.0**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.803	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[9]	1.84	mg/Kg	1	1.00	184	67.5 - 140.3

[9] High surrogate recovery due to peak interference.

Sample: 127641 - East Stock Pile

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38458	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33282	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0474**	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.239**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.734	mg/Kg	1	1.00	73	26 - 117.8
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	51.1 - 119.1

Sample: 127641 - East Stock Pile

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**991**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		181	mg/Kg	1	150	121	32.9 - 167

Sample: 127641 - East Stock Pile

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38460	Date Analyzed:	2007-06-22	Analyzed By:	JW
Prep Batch:	33284	Sample Preparation:		Prepared By:	JW

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**62.4**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.717	mg/Kg	1	1.00	72	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[10]	3.04	mg/Kg	1	1.00	304	67.5 - 140.3

[10] High surrogate recovery due to peak interference.

Sample: 127642 - West Stock Pile

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	38402	Date Analyzed:	2007-06-21	Analyzed By:	JW
Prep Batch:	33238	Sample Preparation:		Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0100		mg/Kg	1	0.0100
Toluene		<0.0100		mg/Kg	1	0.0100
Ethylbenzene		<0.0100		mg/Kg	1	0.0100
Xylene		<0.0100		mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.879	mg/Kg	1	1.00	88	26 - 117.8
4-Bromofluorobenzene (4-BFB)		0.983	mg/Kg	1	1.00	98	51.1 - 119.1

Sample: 127642 - West Stock Pile

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	38400	Date Analyzed:	2007-06-20	Analyzed By:	
Prep Batch:	33157	Sample Preparation:	2007-06-18	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**625**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		171	mg/Kg	1	150	114	32.9 - 167

Sample: 127642 - West Stock Pile

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	38457	Date Analyzed:	2007-06-21	Analyzed By:	JW
Prep Batch:	33281	Sample Preparation:	2007-06-21	Prepared By:	JW

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**36.6**		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.803	mg/Kg	1	1.00	80	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)	[11]	1.52	mg/Kg	1	1.00	152	67.5 - 140.3

[11] High surrogate recovery due to peak interference.

Method Blank (1) QC Batch: 38384

QC Batch: 38384 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		116	mg/Kg	1	150	77	44.7 - 133.6

Method Blank (1) QC Batch: 38400

QC Batch: 38400 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		156	mg/Kg	1	150	104	44.7 - 133.6

Method Blank (1) QC Batch: 38402

QC Batch: 38402 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33238 | QC Preparation: 2007-06-21 | Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.904	mg/Kg	1	1.00	90	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.854	mg/Kg	1	1.00	85	53.9 - 125.1

Method Blank (1) QC Batch: 38457

QC Batch: 38457 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33281 | QC Preparation: 2007-06-21 | Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.929	mg/Kg	1	1.00	93	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.835	mg/Kg	1	1.00	84	67.5 - 140.3

Method Blank (1) QC Batch: 38458

QC Batch: 38458 Date Analyzed: 2007-06-22 Analyzed By: JW
Prep Batch: 33282 QC Preparation: 2007-06-22 Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0884	mg/Kg	1	0.100	88	62.6 - 117.6
4-Bromofluorobenzene (4-BFB)		0.0882	mg/Kg	1	0.100	88	53.9 - 125.1

Method Blank (1) QC Batch: 38460

QC Batch: 38460 Date Analyzed: 2007-06-22 Analyzed By: JW
Prep Batch: 33284 QC Preparation: 2007-06-22 Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0900	mg/Kg	1	0.100	90	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.0852	mg/Kg	1	0.100	85	67.5 - 140.3

Method Blank (1) QC Batch: 38482

QC Batch: 38482 Date Analyzed: 2007-06-25 Analyzed By: JW
Prep Batch: 33303 QC Preparation: 2007-06-25 Prepared By: JW

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.882	mg/Kg	1	1.00	88	52.4 - 123.7
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	67.5 - 140.3

Laboratory Control Spike (LCS-1)

QC Batch: 38384 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	250	mg/Kg	1	250	<14.6	100	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	263	mg/Kg	1	250	<14.6	105	47.5 - 144.1	5	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	153	166	mg/Kg	1	150	102	111	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 38400 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	246	mg/Kg	1	250	<14.6	98	47.5 - 144.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	239	mg/Kg	1	250	<14.6	96	47.5 - 144.1	3	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	153	151	mg/Kg	1	150	102	101	57.3 - 131.6

Laboratory Control Spike (LCS-1)

QC Batch: 38402 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33238 | QC Preparation: 2007-06-21 | Prepared By: JW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.939	mg/Kg	1	1.00	<0.00110	94	68.6 - 123.4
Toluene	0.961	mg/Kg	1	1.00	<0.00150	96	74.6 - 119.3
Ethylbenzene	0.933	mg/Kg	1	1.00	<0.00160	93	72.3 - 126.2
Xylene	2.82	mg/Kg	1	3.00	<0.00410	94	76.5 - 121.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.786	mg/Kg	1	1.00	<0.00110	79	68.6 - 123.4	18	20
Toluene	0.926	mg/Kg	1	1.00	<0.00150	93	74.6 - 119.3	4	20
Ethylbenzene	0.925	mg/Kg	1	1.00	<0.00160	92	72.3 - 126.2	1	20
Xylene	2.79	mg/Kg	1	3.00	<0.00410	93	76.5 - 121.6	1	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)	0.815	0.817	mg/Kg	1	1.00	82	82	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.920	0.913	mg/Kg	1	1.00	92	91	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 38457 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33281 | QC Preparation: 2007-06-21 | Prepared By: JW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.23	mg/Kg	1	10.0	<0.739	92	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.60	mg/Kg	1	10.0	<0.739	96	57.7 - 102.5	4	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)	1.16	1.14	mg/Kg	1	1.00	116	114	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.998	1.00	mg/Kg	1	1.00	100	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 38458 | Date Analyzed: 2007-06-22 | Analyzed By: JW
Prep Batch: 33282 | QC Preparation: 2007-06-22 | Prepared By: JW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0874	mg/Kg	1	0.100	<0.00110	87	68.6 - 123.4
Toluene	0.0894	mg/Kg	1	0.100	<0.00150	89	74.6 - 119.3

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	0.0863	mg/Kg	1	0.100	<0.00160	86	72.3 - 126.2
Xylene	0.260	mg/Kg	1	0.300	<0.00410	87	76.5 - 121.6

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0905	mg/Kg	1	0.100	<0.00110	90	68.6 - 123.4	4	20
Toluene	0.0933	mg/Kg	1	0.100	<0.00150	93	74.6 - 119.3	4	20
Ethylbenzene	0.0908	mg/Kg	1	0.100	<0.00160	91	72.3 - 126.2	5	20
Xylene	0.274	mg/Kg	1	0.300	<0.00410	91	76.5 - 121.6	5	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)	0.0800	0.0802	mg/Kg	1	0.100	80	80	64.1 - 118.2
4-Bromofluorobenzene (4-BFB)	0.0887	0.0891	mg/Kg	1	0.100	89	89	68.7 - 125.8

Laboratory Control Spike (LCS-1)

QC Batch: 38460 | Date Analyzed: 2007-06-22 | Analyzed By: JW
Prep Batch: 33284 | QC Preparation: 2007-06-22 | Prepared By: JW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.90	mg/Kg	1	10.0	<0.739	79	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.43	mg/Kg	1	10.0	<0.739	74	57.7 - 102.5	6	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)	1.18	0.809	mg/Kg	1	1.00	118	81	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.912	0.921	mg/Kg	1	1.00	91	92	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 38482 | Date Analyzed: 2007-06-25 | Analyzed By: JW
Prep Batch: 33303 | QC Preparation: 2007-06-25 | Prepared By: JW

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.79	mg/Kg	1	10.0	<0.739	78	57.7 - 102.5

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.13	mg/Kg	1	10.0	<0.739	71	57.7 - 102.5	9	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)	1.17	0.804	mg/Kg	1	1.00	117	80	36.8 - 152.5
4-Bromofluorobenzene (4-BFB)	0.939	0.930	mg/Kg	1	1.00	94	93	70 - 130

Matrix Spike (MS-1) Spiked Sample: 127573

QC Batch: 38384 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	251	mg/Kg	1	250	<14.6	100	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	276	mg/Kg	1	250	<14.6	110	11.7 - 152.3	10	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	136	145	mg/Kg	1	150	91	97	17 - 163.1

Matrix Spike (MS-1) Spiked Sample: 127634

QC Batch: 38400 | Date Analyzed: 2007-06-20 | Analyzed By:
Prep Batch: 33157 | QC Preparation: 2007-06-18 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	265	mg/Kg	1	250	<14.6	106	11.7 - 152.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [12]	389	mg/Kg	1	250	<14.6	156	11.7 - 152.3	38	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	145	190	mg/Kg	1	150	97	127	17 - 163.1

[12]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 127642

QC Batch: 38402 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33238 | QC Preparation: 2007-06-21 | Prepared By: JW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.10	mg/Kg	1	1.00	<0.00110	110	64.4 - 115.7
Toluene	1.16	mg/Kg	1	1.00	<0.00150	116	57.8 - 124.4
Ethylbenzene	1.18	mg/Kg	1	1.00	<0.00160	118	64.8 - 125.8
Xylene	3.59	mg/Kg	1	3.00	<0.00410	120	65.2 - 121.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.973	mg/Kg	1	1.00	<0.00110	97	64.4 - 115.7	12	20
Toluene	1.03	mg/Kg	1	1.00	<0.00150	103	57.8 - 124.4	12	20
Ethylbenzene	1.03	mg/Kg	1	1.00	<0.00160	103	64.8 - 125.8	14	20
Xylene	3.26	mg/Kg	1	3.00	<0.00410	109	65.2 - 121.8	10	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)	0.791	0.797	mg/Kg	1	1	79	80	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.950	0.972	mg/Kg	1	1	95	97	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 127642

QC Batch: 38457 | Date Analyzed: 2007-06-21 | Analyzed By: JW
Prep Batch: 33281 | QC Preparation: 2007-06-21 | Prepared By: JW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	41.4	mg/Kg	1	10.0	36.6192	48	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	43.4	mg/Kg	1	10.0	36.6192	68	10 - 141.5	5	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)		0.666	0.616	mg/Kg	1	1	67	62	40 - 125.3
4-Bromofluorobenzene (4-BFB)	[13] [14]	1.49	1.52	mg/Kg	1	1	149	152	86.7 - 144.5

[13] High surrogate recovery due to peak interference.
[14] High surrogate recovery due to peak interference.

Matrix Spike (MS-1) Spiked Sample: 127628

QC Batch: 38458 | Date Analyzed: 2007-06-22 | Analyzed By: JW
Prep Batch: 33282 | QC Preparation: 2007-06-22 | Prepared By: JW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.849	mg/Kg	1	1.00	<0.00110	85	64.4 - 115.7
Toluene	0.896	mg/Kg	1	1.00	<0.00150	90	57.8 - 124.4
Ethylbenzene	0.896	mg/Kg	1	1.00	<0.00160	90	64.8 - 125.8
Xylene	2.71	mg/Kg	1	3.00	<0.00410	90	65.2 - 121.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.833	mg/Kg	1	1.00	<0.00110	83	64.4 - 115.7	2	20
Toluene	0.888	mg/Kg	1	1.00	<0.00150	89	57.8 - 124.4	1	20
Ethylbenzene	0.892	mg/Kg	1	1.00	<0.00160	89	64.8 - 125.8	0	20
Xylene	2.70	mg/Kg	1	3.00	<0.00410	90	65.2 - 121.8	0	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)	0.783	0.784	mg/Kg	1	1	78	78	52.8 - 121.7
4-Bromofluorobenzene (4-BFB)	0.966	0.943	mg/Kg	1	1	97	94	66.7 - 131.9

Matrix Spike (MS-1) Spiked Sample: 127628

QC Batch: 38460 | Date Analyzed: 2007-06-22 | Analyzed By: JW
Prep Batch: 33284 | QC Preparation: 2007-06-22 | Prepared By: JW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.27	mg/Kg	1	10.0	5.75	15	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.38	mg/Kg	1	10.0	5.75	16	10 - 141.5	2	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)	0.763	0.716	mg/Kg	1	1	76	72	40 - 125.3
4-Bromofluorobenzene (4-BFB)	1.01	1.03	mg/Kg	1	1	101	103	86.7 - 144.5

Matrix Spike (MS-1) Spiked Sample: 127639

QC Batch: 38482 | Date Analyzed: 2007-06-25 | Analyzed By: JW
Prep Batch: 33303 | QC Preparation: 2007-06-25 | Prepared By: JW

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	1970	mg/Kg	50	500	1816.24	31	10 - 141.5

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO [15]	1850	mg/Kg	50	500	1816.24	7	10 - 141.5	6	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)	32.6	31.8	mg/Kg	50	50	65	64	40 - 125.3
4-Bromofluorobenzene (4-BFB) [16] [17]	85.8	80.2	mg/Kg	50	50	172	160	86.7 - 144.5

Standard (CCV-1)

QC Batch: 38384 Date Analyzed: 2007-06-20 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	272	109	85 - 115	2007-06-20

Standard (CCV-2)

QC Batch: 38384 Date Analyzed: 2007-06-20 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	250	100	85 - 115	2007-06-20

Standard (ICV-1)

QC Batch: 38400 Date Analyzed: 2007-06-20 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	284	114	85 - 115	2007-06-20

Standard (CCV-1)

QC Batch: 38400 Date Analyzed: 2007-06-20 Analyzed By:

[15] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[16] High surrogate recovery due to peak interference.
[17] High surrogate recovery due to peak interference.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	271	108	85 - 115	2007-06-20

Standard (CCV-2)

QC Batch: 38400 Date Analyzed: 2007-06-20 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	264	106	85 - 115	2007-06-20

Standard (ICV-1)

QC Batch: 38402 Date Analyzed: 2007-06-21 Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene	[18]	mg/Kg	1.00	0.767	77	85 - 115	2007-06-21
Toluene		mg/Kg	1.00	0.906	91	85 - 115	2007-06-21
Ethylbenzene		mg/Kg	1.00	0.879	88	85 - 115	2007-06-21
Xylene		mg/Kg	3.00	2.64	88	85 - 115	2007-06-21

Standard (CCV-1)

QC Batch: 38402 Date Analyzed: 2007-06-21 Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	1.00	0.867	87	85 - 115	2007-06-21
Toluene		mg/Kg	1.00	0.882	88	85 - 115	2007-06-21
Ethylbenzene		mg/Kg	1.00	0.847	85	85 - 115	2007-06-21
Xylene		mg/Kg	3.00	2.55	85	85 - 115	2007-06-21

Standard (ICV-1)

QC Batch: 38457 Date Analyzed: 2007-06-21 Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.874	87	85 - 115	2007-06-21

[18] Benzene outside of control limits on CCV(ICV). CCV(ICV) component average is 0.85 which is within acceptable range. This is acceptable by Method 8000.

Standard (CCV-1)

QC Batch: 38457 Date Analyzed: 2007-06-21 Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.971	97	85 - 115	2007-06-21

Standard (ICV-1)

QC Batch: 38458 Date Analyzed: 2007-06-22 Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0905	90	85 - 115	2007-06-22
Toluene		mg/Kg	0.100	0.0923	92	85 - 115	2007-06-22
Ethylbenzene		mg/Kg	0.100	0.0888	89	85 - 115	2007-06-22
Xylene		mg/Kg	0.300	0.267	89	85 - 115	2007-06-22

Standard (CCV-1)

QC Batch: 38458 Date Analyzed: 2007-06-22 Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0896	90	85 - 115	2007-06-22
Toluene		mg/Kg	0.100	0.0916	92	85 - 115	2007-06-22
Ethylbenzene		mg/Kg	0.100	0.0865	86	85 - 115	2007-06-22
Xylene		mg/Kg	0.300	0.261	87	85 - 115	2007-06-22

Standard (ICV-1)

QC Batch: 38460 Date Analyzed: 2007-06-22 Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.11	111	85 - 115	2007-06-22

Standard (CCV-1)

QC Batch: 38460 Date Analyzed: 2007-06-22 Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.917	92	85 - 115	2007-06-22

Standard (ICV-1)

QC Batch: 38482 | Date Analyzed: 2007-06-25 | Analyzed By: JW

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.963	96	85 - 115	2007-06-25

Standard (CCV-1)

QC Batch: 38482 | Date Analyzed: 2007-06-25 | Analyzed By: JW

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	85 - 115	2007-06-25

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1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 7061534

Company Name: Basin Environmental Service Tech. LLC
Phone #: 505) 396-2378
Address: (Street, City, Zip) P.O. Box 301 Lovington NM 88260
Fax #: 505) 396-1429
Contact Person: Ken Dutton
E-mail: Kdutton@basinenv.com
Invoice to: (If different from above) Plains Marketing
Project #: SRS# LF-1999-20
Project Name: McKee 6"
Project Location (Including state): Lea, NM
Sampler Signature: Bobby L Blackwell

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
127628	West Wall #2	1			X							X		6-14-07	2:30
629	West floor #2	1			X							X		6-14-07	2:15
630	North Wall #2	1			X							X		6-14-07	2:40
631	North floor #2	1			X							X		6-14-07	2:45
632	Ramp	1			X							X		6-14-07	2:50
633	East Wall #2	1			X							X		6-14-07	3:10
634	East floor #2	1			X							X		6-14-07	3:15
635	South Wall #1	1			X							X		6-14-07	3:25
636	South floor #1	1			X							X		6-14-07	3:20
637	Trench 17'	1			X							X		6-14-07	3:35
638	Trench 27'	1			X							X		6-14-07	3:55

ANALYSIS REQUEST	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	(GRO) (DRO) TX1005	PAH 8270C / 625	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	Moisture Content	Turn Around Time if different from standard	Hold
	X	X		X															

Relinquished by: Date: Time:
Bobby L Blackwell 6-15-07 4:46
Received by: Date: Time:
Susie Shelton 6-15-07 16:50
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 2.3 °C
Log-In-Review

REMARKS: 2nd Send a report to Camille Reynolds @ Plains as well.

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # Courier

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

ORIGINAL COPY

6701 Aberdeen Avenue, Ste 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

1555 McCutcheon Suite H
El Paso, Texas 79925
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 706534

Company Name: Basin Environmental Service Tech. LLC
Phone #: 505) 396-2378
Address: (Street, City, Zip) P.O Box 301 Lovington NM 88260
Fax #: 505) 396-1429
Contact Person: Ken Dutton
E-mail: Kdutton@basinenv.com
Invoice to: (If different from above) Plains Marketing
Project #: SRS# LF-1999-20
Project Name: McKee 6"
Project Location (including state): Lea Co. NM.
Sampler Signature: BL Blakwell

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
127639	North Stock Pile	1			X							X		6-15-07	10:00
640	South Stock Pile	1			X							X		6-15-07	10:10
641	East Stock Pile	1			X							X		6-15-07	10:20
642	West Stock Pile	1			X							X		6-15-07	10:30

ANALYSIS REQUEST (Circle or Specify Method No.)

	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	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	Moisture Content				Turn Around Time if different from standard	Hold
127639		X	X	X																	
640		X	X	X																	
641		X	X	X																	
642		X	X	X																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
BL Blakwell	6-15-07	9:46	Linda Shelton	6-15-07	10:50
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2.3 °
Log-in-Review

REMARKS: 2nd Send report to Camille Reynolds @ Plains as well

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # carry-in

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

ORIGINAL COPY

Spill # LF-20

REPORT OF UNDESIRABLE EVENT CHECKLIST

DATE OF OCCURRENCE /DISCOVERY: 3-9-99 TIME OF OCCURRENCE 3:45pm

DATE REPORTED TO BLM: 3-10-99 TIME REPORTED 9:15am

BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT/OTHER): Hobbs

LOCATION: 1/4 1/4 NW SEC. 29 T. 20 S. 38E MERIDIAN _____

COUNTY: Lea STATE NM WELL NAME _____

OPERATOR: NAME EOTT Energy PHONE NO. 505 392-1992
CONTACT PERSON'S NAME _____

SURFACE OWNER: Federal MINERAL OWNER: _____
(FEDERAL/INDIAN/FEE/STATE)

LEASE NO: _____ UNIT NAME/CA NO. _____
RIGHT-OF-WAY NO.: _____

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):
BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, (OIL SPILL), SALTWATER SPILL, OIL AND SALTWATER SPILL, TOXIC FLUID SPILL, HAZARDOUS MATERIAL SPILL, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OTHER (SPECIFY): _____

CAUSE OF EVENT: Internal Corrosion

HazMat Notified: (for spills) _____
Law Enforcement Notified (for thefts) _____

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
NA
Safety Officer Notified: _____

EFFECTS OF EVENT: _____

ACTION TAKEN TO CONTROL EVENT: Leak clamped - will replace pipe ASAP

LENGTH OF TIME TO CONTROL EVENT: 3 hrs

SUBSEQUENT CLEAN-UP: Spilt 50 bbls recovered 30

VOLUMES DISCHARGED: OIL 50bbls WATER _____ GAS _____

OTHER AGENCIES NOTIFIED: NMOCD, NMED

ACTION TAKEN OR TO BE TAKEN TO PREVENT RECURRENCE: Clamped Line

FINAL REPORT OF UNDESIRABLE EVENT CHECKLIST

INVESTIGATION:
TEAM NAME(S) Lennah Frost, Terry Diel

FIELD INSPECTION DATE 3-16-99

SUMMARY OF RESULTS OF INSPECTION

RESOURCE LOSS WAS (CIRCLE ITEM): AVOIDABLE (UNAVOIDABLE)

DATE OF MEMO NOTIFYING MMS THAT LOSS WAS AVOIDABLE:

DATE/TIME/PERSON NOTIFIED: 3/9/99 - BLM-HOBBS

DISTRICT OFFICE

STATE OFFICE

HEADQUARTERS

SUMMARY OF RESULTS OF RECLAMATION/CORRECTIVE ACTION:
Met w/ Steve Caffey - Hobbs BLM at leaksite. He approved on-site remediation

REMARKS:

SIGNATURE OF AUTHORIZED OFFICER: Lennah Frost
DATE: 3-18-99 TITLE: SR. ENV. Engineer

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.:	2a. Lead (Sponsoring) Agency:	2b. Other Permitting Agency(ies):	3. Lead Agency Report No.:
107166	BLM, CFO		

4. Title of Report: McKee 6" oil spill.

Author(s) Ann and Danny Boone

5. Type of Report ☒ Negative ☐ Positive

6. Investigation Type

☐ Research Design ☒ Survey/Inventory ☐ Test Excavation ☐ Excavation ☐ Collections/Non-Field Study

☐ Overview/Lit Review ☐ Monitoring ☐ Ethnographic study ☐ Site specific visit ☐ Other

7. Description of Undertaking (what does the project entail?): The survey area is where a pipeline leaked and has been excavated, see accompanying photos.

8. . Dates of Investigation: (from: 8/6/2007 to:)

9. Report Date: 7 Aug, 2007

10. Performing Agency/Consultant: Boone Archaeological Services, LLC
Principal Investigator: Danny Boone
Field Supervisor: Danny Boone
Field Personnel Names: Danny Boone

11. Performing Agency/Consultant Report No.: BAS 07-07-42

12. Applicable Cultural Resource Permit No(s): BLM: 190-2920-06-J

13. Client/Customer (project proponent): Plains All American Pipeline, L.P.
Contact: Ken Dutton (Agent)
Address: 1301 S Country Road 1150
Midland, Texas 79706-4476
Phone: (432) 682-5392

14. Client/Customer Project No.:

15. Land Ownership Status *(Must be indicated on project map)*:

Land Owner	Acres Surveyed	Acres in APE
BLM	3.8 (+/-)	2.2 (-/+)
TOTALS	3.8 (-/+)	2.2 (+/-)

16 Records Search(es):

Date(s) of ARMS File Review: 6 Aug. 07	Name of Reviewer(s): Ann Boone	
Date(s) of NR/SR File Review:	Name of Reviewer(s):	
Date(s) of Other Agency File Review: 6 Aug. 07	Name of Reviewer(s): Danny Boone	Agency: BLM, CFO

Findings: No previously recorded sites were located within 0.25 mile, LA 105936, 19987, 106325, 106324, 36574, 20889 and possible others are within 1.0 mile.

17. Survey Data:a. Source Graphics ☒ NAD 27 ☐ NAD 83

☒ USGS 7.5' (1:24,000) topo map ☐ Other topo map, Scale:

☒ GPS Unit Accuracy ☐<1.0m ☒ 1-10m ☐ 10-100m ☐>100m

b. USGS 7.5' Topographic Map Name / USGS Quad Code

HOBBS SW, NM 1969	32103-E2

17. Survey Data (continued):
d. Nearest City or Town: Nadine, NM
e. Legal Description:

Township (N/S)	Range (E/W)	Section	¼ ¼ ¼
20S	38E	29	sw nw, se nw, .
			, , .
			, , .
			, , .
			, , .
			, , .
			, , .
			, , .
			, , .

Projected legal description? Yes ☐, No ☐ Unplatted ☐
f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

18. Survey Field Methods:
Intensity: ☒ 100% coverage ☐ <100% coverage
Configuration: ☒ block survey units ☐ linear survey units (l x w): ☐ other survey units (specify):
Scope: ☒ non-selective (all sites recorded) ☐ selective/thematic (selected sites recorded)
Coverage Method: ☒ systematic pedestrian coverage ☐ other method (describe)
Survey Interval (m): 15 Crew Size: 1 Fieldwork Dates: 6 Aug. 07
Survey Person Hours: 1.0 Recording Person Hours: 0 Total Hours: 1.0
Additional Narrative: Location, footage and acres are estimates based on a hand held GPS Unit. A 100 foot buffer was surveyed around the impacted area.

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):
Topography: Plain of mildly rolling dunes.
Vegetative community: Shinoak, sun flowers, soapberry trees, yucca cactus, assorted grasses and other flora.
NRCS: Berino-Cacique association: Nearly level and gently sloping, sandy soils that are deep and moderately deep to soft or indurated caliche.
Elevation: 3,545 feet.

20.a. Percent Ground Visibility: 85 b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): Area has several buried pipelines and is bordered on the north by a caliche capped road.

21. CULTURAL RESOURCE FINDINGS ☐ Yes, See Page 3 ☒ No, Discuss Why:

22. Required Attachments (check all appropriate boxes):
☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn
☐ Copy of NMCRIS Mapserver Map Check
☐ LA Site Forms - new sites *(with sketch map & topographic map)*
☐ LA Site Forms (update) - previously recorded & un-relocated sites *(first 2 pages minimum)*
☐ Historic Cultural Property Inventory Forms
☐ List and Description of isolates, if applicable
☐ List and Description of Collections, if applicable

23. Other Attachments:
☐ Photographs and Log
☒ Other Attachments
(Describe): Photos

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Responsible Archaeologist: Danny Boone
Signature Danny Boone Date: 7 Aug. 2007 Title (if not PI):

25. Reviewing Agency:
Reviewer's Name/Date

Accepted ( ) Rejected ( )

Tribal Consultation (if applicable): ☐ Yes ☐ No

26. SHPO
Reviewer's Name/Date:

HPD Log #:
SHPO File Location:
Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.: 107166	2. Lead (Sponsoring) Agency: BLM	3. Lead Agency Report No.:

SURVEY RESULTS:
Sites discovered and registered: 0
Sites discovered and NOT registered: 0
Previously recorded sites revisited (*site update form required*): 0
Previously recorded sites not relocated (*site update form required*): 0
TOTAL SITES VISITED: 0
Total isolates recorded: 0 Non-selective isolate recording? ☒
Total structures recorded (*new and previously recorded, including acequias*): 0

MANAGEMENT SUMMARY: No cultural resources were encounteredduring the survey therefore clearance of an area for the McKee 6" oil spill for Plains All American Pipeline, L.P. is recommended. If cultural resources are encountered at any time all activity should cease and the BLM Archaeologist notified immediately.

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG
Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

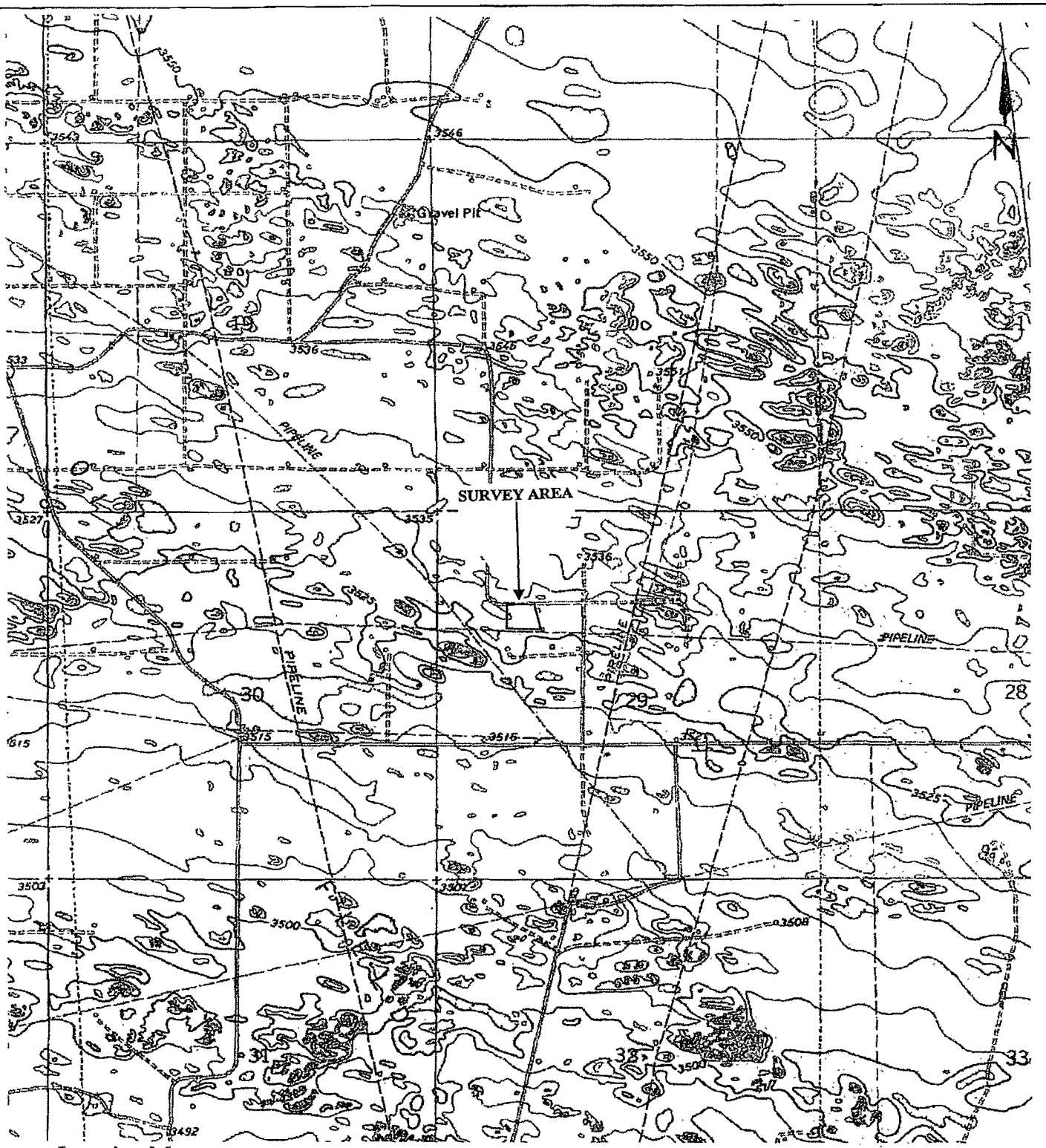
MONITORING LA NUMBER LOG (*site form required*)
Sites Discovered (*site form required*) : Previously recorded sites (*Site update form required*):

LA No.	Field/Agency No.	LA No.	Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes ☐, No ☐ If no explain why:

TESTING & EXCAVATION LA NUMBER LOG (*site form required*)

Tested LA number(s)	Excavated LA number(s)



Location Map BAS 07-07-42

Survey area for the McKee 6" oil spill for Plains All American Pipeline, L.P. in Section 29, T 20 S, R 38E, NMPM, Lea County, NM.

Map Reference: USGS 7.5' Series; HOBBS SW, NM (1969) 32103-E2

SCALE 1:24000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

Photo 1
View Northwest

Photo 2
View North

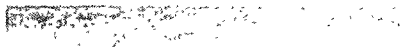


Photo 3
View Southwest

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
Excavation Floor 15 feet bgs					
5		0.0 ppm	None	None	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, Dry
10		0.0 ppm	None	None	
15		0.0 ppm	None	None	
20		0.0 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry
25		0.0 ppm	None	None	
30 TD		0.0 ppm	None	None	

Plains Marketing, L. P.
McKee 6"
Lea County, New Mexico
SW/NW S29, T20S, R38E
SRS: LF-1999-20

Soil Boring Completion Data

TD: 30 Feet bgs

Installed 14 August 2007
Basin Environmental
Service Technologies

Samples selected for analysis

Soil Boring Completion Data

12 bags of hydrated Bentonite Plug, Surface to 30' bgs

TITLE	DESCRIPTION
Appendix E McKee 6"	Soil Boring 1
DRAWN BY KAD	DATE 22 October 2007

Plains Marketing, L. P.
McKee 6"
Lea County, New Mexico
SW/NW S29, T20S, R38E
SRS: LF-1999-20

Excavation Floor 15 feet bgs

Depth	Soil Column	PID Reading	Petroleum Odor	Petroleum Stain	Soil Description
5		259 ppm	Moderate	Moderate	Sand (SP) White-Brown, Very Fine Grained, Well Sorted, Dry
10		388 ppm	Moderate	Moderate	
15		321 ppm	Moderate	Moderate	
20		852 ppm	Moderate	Moderate	
25		455 ppm	None	None	Sand (SP) Red-Brown, Very Fine Grained, Well Sorted, Dry
30		851 ppm	None	None	
35		524 ppm	None	None	
40		691 ppm	None	None	
45		269 ppm	Slight	None	
50		60.1 ppm	Slight	None	
55		8.0 ppm	None	None	
60		0.1 ppm	None	None	
65	TD	1.4 ppm	None	None	

Soil Boring Completion Data

TD: 65 Feet bgs

Installed 22 August 2007
Basin Environmental
Service Technologies

Samples selected for analysis

Soil Boring Plugging Data

Hydrated Bentonite Plug, Surface to 65' bgs

TITLE	DESCRIPTION
Appendix E McKee 6"	SB-2
DRAWN BY KAD	DATE 22 October 2007

District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Spill # LF-20

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

Release Notification and Corrective Action
OPERATOR

☐ Initial Report ☐ Final Report

Name: EOTT ENERGY Pipeline	Contact: Lennah Frost
Address: PO Box 1660, Midland TX 79702	Telephone No: 915/684-3467
Facility Name: McKee 6" Gathering System	Facility Type: Pipe Line

Surface Owner	Mineral Owner	Lease No.
BLM		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	29	20-S	38-E					Lea

NATURE OF RELEASE

Type of Release: Crude oil	Volume of Release: 50 bbl	Volume Recovered: 30 bbl
Source of Release: Internal Corrosion Leak	Date and Hour of Occurrence: 3/9/99 3:45PM	Date and Hour of Discovery: 3/9/99 3:45PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sylvia	
By Whom? Jim Henry	Date and Hour: 3/10/99 8:15 (cst) AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Necessary)

Describe Cause of Problem and Remedial Action Taken. (Attach Additional Sheets If Necessary)
Internal Corrosion leak. Pipe to be replaced week of 3/22/99.

Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets If Necessary)
Area will be bioremediated on site using microbes - BLM approves

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: Lennah Frost	OIL CONSERVATION DIVISION
Printed Name: Lennah Frost	Approved by District Supervisor:
Title: Sr. Env. Engineer	Approval Date: / Expiration Date:
Date: 3-18-99 Phone: 915/684-3467	Conditions of Approval / Attached ☐