



9410 East 51st Street
Suite G
Tulsa, OK 74145
Telephone 918-610-3543
Facsimile 918-610-3556

June 6, 2005

CON 12-15
Doc #11545

Mr. Matthew Culp
State Of Iowa Department of Natural Resources
502 East 9th Street
Des Moines, Iowa 50319

RE: Supplemental Soil and Groundwater Assessment Report
Former Kinley Pipeline
NW ¼ NW ¼ Sec. 20 T74N, R43W
Council Bluffs, Pottawattamie County, IA

Dear Mr. Culp:

On behalf of the Kinley Corporation, Apex Environmental, Inc (Apex) conducted a supplemental soil and groundwater assessment in the vicinity of a former Kinley pipeline at the above referenced location. This assessment was performed in response to a request from the Iowa Department of Natural Resources (IDNR) for additional site assessment at the referenced site. In a correspondence dated February 18, 2005, you requested the collection of additional soil and groundwater samples to determine the lateral extent of petroleum impacted soil and groundwater at the site. You recommended the installation of five additional soil borings and collection of associated soil and groundwater samples for analysis of petroleum hydrocarbon constituents by Iowa methods OA-1 and OA-2. This correspondence serves as a supplemental assessment report to document Apex's completed field activities and analytical results.

The locations of the supplemental soil borings were verbally relayed to Terry Cochran of Apex Environmental via a telephone conversation with you on February 18, 2005. The attached figures illustrate the location of the pipeline and the soil borings.

Prior to conducting a previous site investigation, Apex received a signed access agreement from the property owner. Apex contacted the property owner to obtain access to the property again prior to initiating the supplemental site assessment activities.

Apex utilized a previously prepared site specific Health and Safety Plan (HASP) to ensure site assessment personnel performed their work in a safe manner. This safety plan includes information important to the site workers, such as directions to the nearest hospital and also hazards associated with the job. The HASP was reviewed onsite during a tailgate safety meeting before the beginning of work and signed by everyone present.

Background

The Site is located at the Intersection of 192nd Street and the Burlington Northern Railroad right of way in Council Bluffs Iowa (NW ¼, NW ¼, Section 20, T 74 N, R 43 W). In June 2004, Northern Natural Gas Company discovered petroleum impacted soil during pre-construction environmental impact activities associated with a future construction project. Apex Environmental personnel mobilized to the site and advanced five hand auger points to a depth of approximately five feet below ground surface. No laboratory samples were collected; however, field screening of subsurface soil cores indicated elevated petroleum levels.

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In August 2004, the Iowa Department of Natural Resources (IDNR) requested that Magellan Midstream Partners, L.P. (Magellan) and the Kinder Morgan Corporation conduct an environmental assessment of soil and groundwater in the vicinity of their pipelines. The purpose of the assessment was to determine the attribution and/or extent of the soil and groundwater contamination stemming from the pipeline(s). In October 2004, a work plan was submitted to the IDNR proposing 8 to 10 direct-push sampling points at the designated location.

On November 8, 2004, Apex Environmental and a local direct-push contractor installed nine soil borings to collect subsurface soil and groundwater samples. The soil samples were screened in the field with a portable photoionization detector (PID) to measure total volatile organic vapors in the samples. The samples were screened at approximately one-foot intervals and the sample interval with the highest PID reading was submitted for laboratory analysis of petroleum constituents by Iowa Methods OA-1 and OA-2.

Subsurface soils are generally lean clay with a gray to dark brown color. According to the USDA Soil Survey of Pottawattamie County, Iowa, the soils in the sampled area are considered to be Luton silty clay. Typically, the surface layer is black silty clay about 7 inches thick. The subsurface layer is black and very dark gray, silty clay about 17 inches thick. The subsoil is firm silty clay about 18 inches thick. The upper part of the subsoil is dark gray, mottled, and calcareous. The substratum is typically gray, mottled, calcareous silty clay to a depth of approximately 60 inches.

The analytical results for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) were compared to the Statewide Standards for soil identified in Chapter 135 of the Iowa Administrative Code. The analytical data did not indicate a violation of statewide soil standards. Soil standards for Total Extractable Hydrocarbons (TEH) are evaluated based on Chapter 135 action standards based on the Risk-Based Corrective Action Standards for TEH Diesel and TEH Waste Oil. The evaluation was compared to the Soil Leaching to Groundwater category of the Tier 1 Look-Up Table. An evaluation of the area indicated that no structures or basements are present to initiate a concern regarding migration of vapors to enclosed spaces. No known plastic water lines are present in the immediate area. Therefore, no obvious standard violations were indicated.

Groundwater samples were also collected from each boring and submitted for laboratory analysis by Iowa Methods OA-1 and OA-2. However, boring PB-5 did not produce sufficient volume to permit analysis by method OA-2. The analytical results from the groundwater samples indicated that the Chapter 135 Statewide standards for a protected groundwater source were exceeded for Benzene at each sample point. Concentrations of Ethylbenzene exceeded the criteria in samples except those collected from borings PB-5 and PB-6. Concentrations of Xylene exceeded criteria in samples collected from borings PB-2 and PB-3 and concentrations of TEH Diesel exceeded criteria in a sample collected from boring PB-8. It should be noted that the Chapter 137 standards are based on protected or non-protected groundwater source and the designation of the groundwater at this site has not been determined. A site sketch illustrating the distribution of dissolved Benzene concentrations in groundwater samples collected during the November 2004 assessment is provided as Figure 1.

The data collected during the initial site assessment was documented in a Site Investigation Report dated December 20, 2004 and submitted to the IDNR. In a correspondence dated February 18, 2005, the IDNR requested the collection of additional soil and groundwater samples to determine the lateral extent of petroleum impacted soil and groundwater at the site. Mr. Mathew Culp, of the IDNR, recommended the installation of five additional soil borings and collection of associated soil and groundwater samples for analysis of petroleum hydrocarbon constituents by Iowa methods OA-1 and OA-2. The results of the supplemental assessment are discussed below.

Supplemental Assessment

The supplemental site investigation included the installation of five additional soil borings. The borings were positioned in a general radial orientation from the suspected initial release site to delineate the lateral extent of hydrocarbon impacts in the subsurface. Borings were placed adjacent to pipeline corridors south and

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southeast of the suspected release site and southwest of the area to monitor conditions in the assumed downgradient direction. A boring was also located east of the release site to monitor background conditions presumably upgradient of the suspected release site.

Subsurface soil and groundwater samples were collected with the aid of a Geoprobe® type direct-push drilling machine. Each boring was advanced by hydraulically pushing a 1.5-inch diameter sampling tube into the subsurface. The sampling tube was equipped with disposable acrylic liners to collect soil cores. The borings were advanced to approximately 15 feet below ground surface (bgs) to collect subsurface soil samples and intercept the groundwater table. Groundwater depths ranged from 2.3 feet bgs at PB-11 to 6.6 feet bgs at PB-13.

Soil samples were collected continuously through the extent of each boring and were examined to determine lithologic characteristics. Copies of the boring logs for each soil boring are provided as Attachment A. Each soil sample was screened in the field for the presence of volatile organic hydrocarbons using a PID and inspected for the presence of staining or odor. A summary of field screening results is presented in Table 1. The soil sample, from each soil boring, exhibiting the highest suspected hydrocarbon concentration, based either on PID measurements or direct observation, was submitted to Environmental Science, Inc., in Mt. Juliet, TN for laboratory analysis. Soil samples were analyzed for BTEX using Iowa Method OA-1 and for TEH using Iowa Method OA-2.

A groundwater grab sample was also collected from each boring. The groundwater samples were submitted for laboratory analysis of BTEX using Iowa Method OA-1 and for TEH using Iowa Method OA-2.

Following sample collection, each soil boring was sealed in accordance with IDNR requirements. IDNR Form 542-1226 was completed and submitted to the IDNR by the Geoprobe® contractor.

Supplemental Assessment Analytical Results

The analytical results from the soil samples indicate concentrations of BTEX constituents and TEH were below laboratory detection levels and did not exceed statewide soil standards. A summary of the laboratory analytical results is presented in Table 2.

The analytical results of the groundwater samples indicate concentrations of BTEX constituents and TEH were also below laboratory detection levels and did not exceed IDNR standards. A summary of the groundwater analytical results is included in Table 3. A site sketch illustrating the locations of supplemental borings is provided as Figure 2. A copy of the analytical laboratory report is also provided as Attachment B.

Concentrations of petroleum constituents were below laboratory detection levels in both soil and groundwater in the supplemental perimeter borings; therefore, Apex believes the lateral extent of hydrocarbon impacts to soil and groundwater has been defined.

If you have any questions or require additional information, please feel free to contact me at (918) 610-3543.

Sincerely,
Apex Environmental, Inc.



Terry Cochran
Project Manager



Ned Young
Regional Manager

Enclosure
cc: James L. Kinley – Kinley Corporation

FORMER KINLEY PIPELINE
POTTAWATTAMIE COUNTY, IOWA
KINLEY CORPORATION

FIGURES

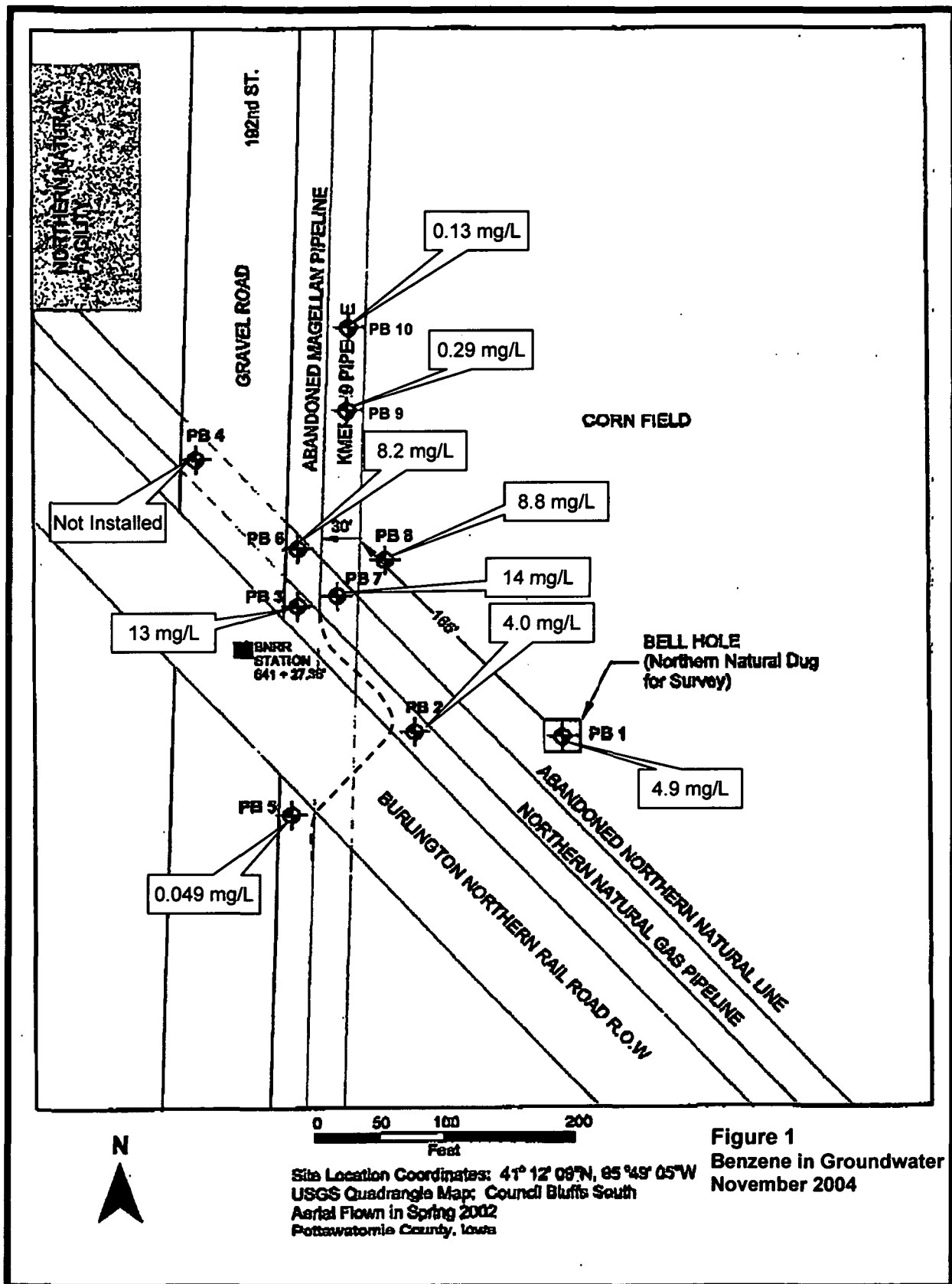
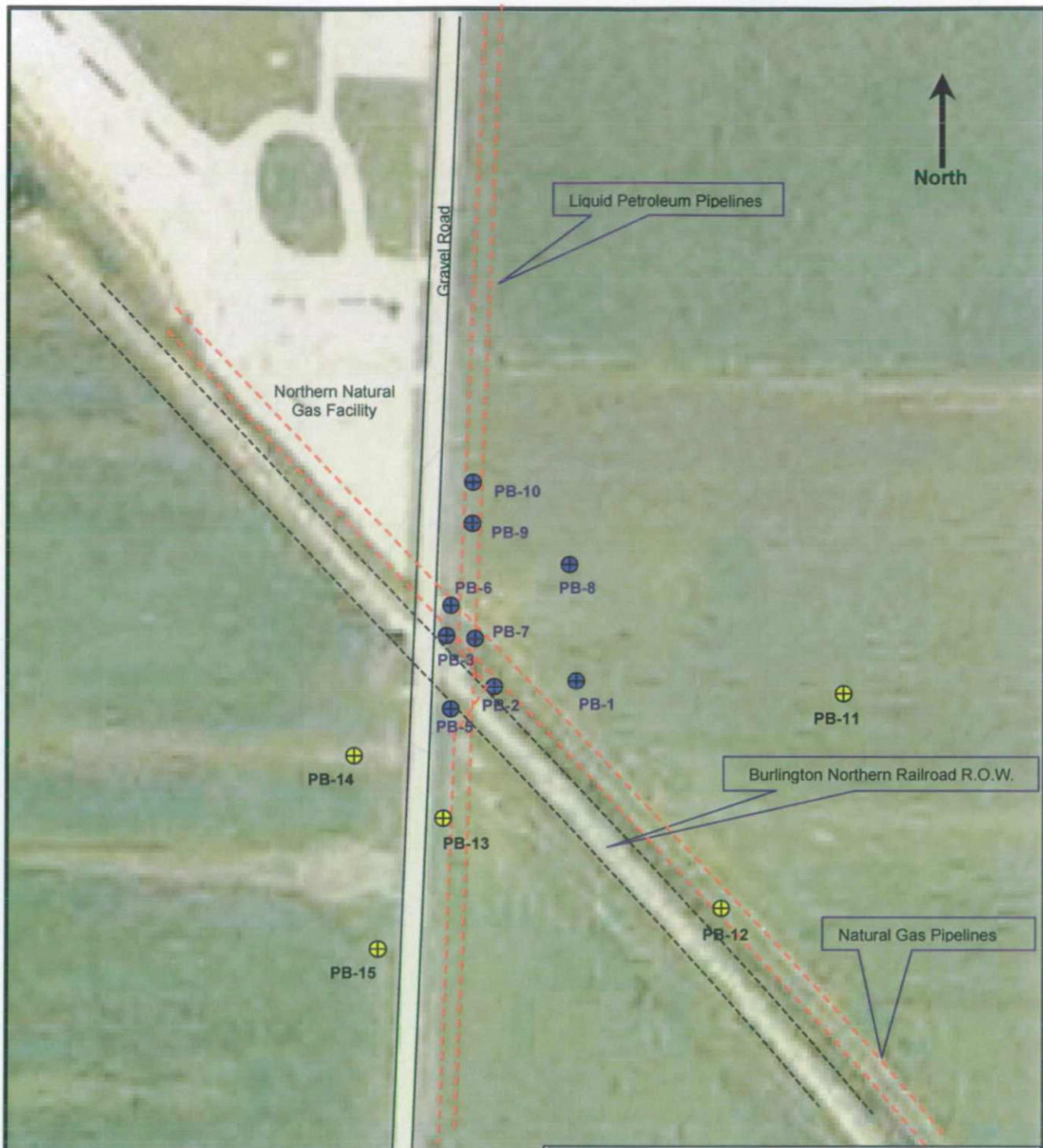


Figure 1
 Benzene in Groundwater
 November 2004



- Previous borings installed November 8, 2004
- Supplemental Assessment borings installed May 2, 2005

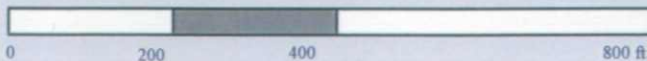


Photo USDA Orthophoto, July 31, 2004
Iowa State University GIS Support & Research Facility



Apex Environmental, Inc.
9410 East 51st Street,
Suite G
Tulsa, OK 74145

DRAWING DATE:
5/12/05

FILE LOCATION:
Z:\Supplemental....

TITLE:
FIG 2 SUPPLEMENTAL ASSESSMENT BORING LOCATIONS

CLIENT:
KINLEY CORPORATION

PM: T.C.

LOCATION:
NW¼, NW¼, Sec 20 T74N, R43W, Council Bluffs,

PE/RG:

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POTTAWATTAMIE COUNTY, IOWA
KINLEY CORPORATION

TABLES

Table 1

Field Screening Results
NW ¼ NW ¼ Sec. 20 T74N, R43W
Council Bluffs, Iowa

Sample	PB#1	PB#2	PB#3	PB#5	PB#6	PB#7	PB#8	PB#9	PB#10	PB#11	PB#12	PB#13	PB#14	PB#15
Date	11/8/2004	11/8/2004	11/8/2004	11/8/2004	11/8/2004	11/8/2004	11/8/2004	11/8/2004	11/8/2004	5/2/2005	5/2/2005	5/2/2005	5/2/2005	5/2/2005
Depth (feet)	PID	PID	PID	PID	PID	PID	PID	PID	PID	PID	PID	PID	PID	PID
1	0	0	0	0	0	0	0	0	0	0	1	7	1	0
2	0	0	0	0	0	0	0	0	0	0	4	6	1	0
3	0	0	0	0	0	350	0	0	0	0	1	9	2	0
4	0	0	0	0	22	500	0	0	0	9	5	7	1	0
5	0	0	0	0	460	600	0	0	0	5	6	6	2	0
6	0	0	0	0	320	1100	0	0	6	9	10	6	4	0
7	0	12	540	0	930	1700	520	0	12	3	11	4	3	0
8	1100	1300	1300	0	320	1950	630*	700	500	10	9	7	2	0
9	1200	440	2000*	0*	1999*	1640	430	2000*	2000*	9	9	8	6	0
10	1500*	2000*	640	0	250	1999*	440	200	150	9	6	6	11	0
11	--	--	--	--	--	--	--	--	--	10	2	9	5	0
12	--	--	--	--	--	--	--	--	--	5	5	8	2	0
13	--	--	--	--	--	--	--	--	--	3	8	9	1	0
14	--	--	--	--	--	--	--	--	--	2	5	9	1	0
15	--	--	--	--	--	--	--	--	--	2	5	9	1	0
DTW (feet)	6.1	7.8	11.5	20	15	12.8	9.8	12.8	11.5	2.3	4.2	6.6	4.3	2.9
GPS location N	41.203000	41.202361	41.202194	41.202222	41.202611	41.202722	41.202667	41.203056	41.203222	41.12084	41.1205	41.12063	41.12072	41.12042
GPS location W	95.817556	95.818028	95.817583	95.818278	95.817972	95.818139	95.818222	95.818222	95.818472	95.48575	95.49002	95.49059	95.49078	95.49072

Table 2

Soil Analytical Results
NW ¼ NW ¼ Sec. 20 T74N, R43W
Council Bluffs, Iowa

Sample Point	Sample Date	Sample Depth (feet/bis)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TEH Low Fraction (mg/kg)	TEH/GRO (mg/kg)	TEH/DRO (mg/kg)	TEH/Oil (mg/kg)
PB-1	11/8/2004	10.0	0.69	BDL	31.0	26.0	BDL	1200	390	24	BDL
PB-2	11/8/2004	10.0	0.38	BDL	8.6	1.9	BDL	320	27	BDL	65
PB-3	11/8/2004	9.0	0.86	BDL	24.0	18.0	BDL	950	610	30	BDL
PB-5	11/8/2004		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-6	11/8/2004		6.4	BDL	34.0	29.0	BDL	1400	2000	120	BDL
PB-7	11/8/2004	10.0	11	BDL	63.0	49.0	BDL	2700	2800	120	BDL
PB-8	11/8/2004	8.0	6.5	BDL	25.0	22.0	BDL	1100	1300	65	BDL
PB-9	11/8/2004	9.0	0.58	BDL	6.0	5.4	BDL	230	1100	64	BDL
PB-10	11/8/2004	9.0	0.038	BDL	7.5	7.1	BDL	390	28	BDL	BDL
PB-11	5/2/2005	8.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-12	5/2/2005	7.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-13	5/2/2005	14.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-14	5/2/2005	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-15	5/2/2005	10.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Standard, (ppm) Chapter 137			73	16,000	7,800	160,000	2,300	N/A	N/A	N/A	N/A
Soil leaching to Groundwater Ch 135			N/A	N/A	N/A	N/A	N/A	N/A	3,800	N/A	N/A

NOTES: Samples were analyzed by Iowa Method OA-1 for BTEX and Iowa Method OA-2 for TPH GRO and TPH DRO

BDL-not detected above method detection limit
Shaded values exceed the applicable cleanup goal.

Mg/Kg – milligrams per kilogram (approximately parts per million)

TEH/GRO – Total extractable hydrocarbons in the gasoline range (C7-C10)

TEH/DRO – Total extractable hydrocarbons in the diesel range (C10-C20)

TEH/Oil – Total extractable hydrocarbons in the heavier oil range (C20-C40)

PB-4 not installed due to proximity to utilities

Table 3

Ground Water Analytical Results
NW ¼ NW ¼ Sec. 20 T74N, R43W
Council Bluffs, Iowa

Sample ID	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	TEH Low Fraction (mg/L)	TEH/GRO (mg/L)	TEH/DRO (mg/L)	TEH/Oil (mg/L)
PB-1	11/8/2004	4.9	BDL	3.1	BDL	BDL	BDL	15000	BDL	BDL
PB-2	11/8/2004	4.0	BDL	11.0	55.0	BDL	7900	3800	BDL	BDL
PB-3	11/8/2004	13.0	BDL	52.0	42.0	BDL	2600	2900	BDL	BDL
PB-5	11/8/2004	0.049	BDL	0.09	0.071	BDL	1.2	BDL	BDL	BDL
PB-6	11/8/2004	8.2	BDL	0.27	0.33	BDL	BDL	5.7	0.28	BDL
PB-7	11/8/2004	1.4	BDL	4.6	BDL	BDL	BDL	740	BDL	BDL
PB-8	11/8/2004	8.8	BDL	2.5	BDL	BDL	BDL	15000	350	BDL
PB-9	11/8/2004	0.29	BDL	1.6	1.2	BDL	BDL	9.5	0.2	BDL
PB-10	11/8/2004	0.13	BDL	1.5	0.58	BDL	10.0	4.8	0.14	BDL
PB-11	5/2/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-12	5/2/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-13	5/2/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-14	5/2/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PB-15	5/2/2005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Standard, protected / non-protected Chapter 137		0.005 / 0.12	1 / 7	0.7 / 3.5	10 / 70	0.02 / 1.1	N/A	N/A	N/A	N/A
Standard, Groundwater Ingestion, Ch 135		N/A	N/A	N/A	N/A	No Standard	N/A	N/A	75	40

NOTES: Samples were analyzed by Iowa Method OA-1 for BTEX and Iowa Method OA-2 for TPH GRO and TPH DRO

BDL-not detected above method detection limit

Shaded values exceed the applicable cleanup goal.

Mg/L – milligrams per liter (approximately parts per million)

TEH/GRO – Total extractable hydrocarbons in the gasoline range (C7-C10)

TEH/DRO – Total extractable hydrocarbons in the diesel range (C10-C20)

TEH/Oil – Total extractable hydrocarbons in the heavier oil range (C20-C40)

PB-4 not installed due to proximity to utilities

Apexenvironmental, inc.

FORMER KINLEY PIPELINE
POTTAWATTAMIE COUNTY, IOWA
KINLEY CORPORATION

ATTACHMENT A
BORING LOGS

APEX SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM					
Boring/Well Number: PB-11		Site ID: Former Kinley Pipeline Council Bluffs, Iowa		Location: NW 1/4, NW 1/4, S 20, T74N, R43W Pottawattamie County	
Boring Depth (ft) X Diameter (in): 15' x 3"				Drilling Method: Geoprobe push point	
Well Contractor Name: Saberprobe Registration Number:				Logged By: Susan Dixon, N 41.12084, W 95.48575	
Date: 05/2/05 Start Time: 8:15		Date: 05/2/05 End Time: 9:00		Top of Casing Elevation (ASL):	
Depth (feet)	Well Construction Details	Sample Interval / Notes	PID (ppm)	USCS Class.	Soil/Lithology Classification
0		Sampled in 1' intervals			
1			0	CL	(0-3') Dk Brown clay, no odor
2		DTW, 2.3 feet	0		
3			0	CL	(3-5') Light gray clay, w/ rust staining
4			9		
5			5	CL	(5-12') Gray clay
6			9		
7			3		
8		Soil sample @ 8 foot	10		
9			9		
10			9		
11		10			
12			5	CL	(12-15') Dark Brown clay
13			3		
14			2		
15			2		
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APEX SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM					
Boring/Well Number: PB-12		Site ID: Former Kinley Pipeline Council Bluffs, Iowa		Location: NW 1/4, NW 1/4, S 20, T74N, R43W Pottawattamie County	
Boring Depth (ft) X Diameter (in): 15' x 3"				Drilling Method: Geoprobe push point	
Well Contractor Name: Saberprobe Registration Number:				Logged By: Susan Dixon, N 41.12050 ,W 95.49002	
Date: 05/2/05 Start Time: 9:25		Date: 05/2/05 End Time: 9:50		Top of Casing Elevation (ASL):	
Depth (feet)	Well Construction Details	Sample Interval / Notes	PID (ppm)	USCS Class.	Soil/Lithology Classification
0		Sampled in 1' intervals			
1			1	CL	(0-5') Dark brown topsoil, no odor
2			4		
3			1		
4		DTW, 4.2 feet	5		
5			6	CL	(5-10') Gray clay with fill, no odor
6			10		
7		Soil sample @ 7 foot	11		
8			9		
9			9		
10			6	CL	(10-15') Gray clay
11			2		
12			5		
13			8		
14			5		
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APEX SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM					
Boring/Well Number: PB-13		Site ID: Former Kinley Pipeline Council Bluffs, Iowa		Location: NW 1/4, NW 1/4, S 20, T74N, R43W Pottawattamie County	
Boring Depth (ft) X Diameter (in): 15' x 3"				Drilling Method: Geoprobe push point	
Well Contractor Name: Saberprobe Registration Number:				Logged By: Susan Dixon, N 41.12063 ,W 95.49059	
Date: 05/2/05 Start Time: 10:15		Date: 05/2/05 End Time: 10:50		Top of Casing Elevation (ASL):	
Depth (feet)	Well Construction Details	Sample Interval / Notes	PID (ppm)	USCS Class.	Soil/Lithology Classification
0		Sampled in 1' intervals			
1			7	CL	(0-3') Dk brown topsoil, no odor
2			6		
3			9	CL	(3-6') Dk black clay with brown specks, no odor
4			7		
5			6		
6		DTW, 6.6 feet	6	CL	(6-14') Brown clay with rust staining, no odor
7			4		
8			7		
9			8		
10			6		
11			9		
12			8		
13			9		
14		Soil sample @ 14 foot	9	CL	(14-15') Dark brown clay, no odor
15			9		
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APEX SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM					
Boring/Well Number: PB-14		Site ID: Former Kinley Pipeline Council Bluffs, Iowa		Location: NW 1/4, NW 1/4, S 20, T74N, R43W Pottawattamie County	
Boring Depth (ft) X Diameter (in): 15' x 3"				Drilling Method: Geoprobe push point	
Well Contractor Name: Saberprobe Registration Number:				Logged By: Susan Dixon, N 41.12072 ,W 95.49078	
Date: 05/2/05 Start Time: 11:55		Date: 05/2/05 End Time: 12:30		Top of Casing Elevation (ASL):	
Depth (feet)	Well Construction Details	Sample Interval / Notes	PID (ppm)	USCS Class.	Soil/Lithology Classification
0		Sampled in 1' intervals			
1			1	CL	(0-4') Dk brown clay, no odor
2			1		
3			2		
4		DTW, 4.3 feet	1	CL	(4-10') Gray clay with rust striations, no odor
5			2		
6			4		
7			3		
8			2		
9			6		
10		Soil sample @ 10 foot	11	CL	(10-13') Dark brown clay, no odor
11		5			
12		2			
13		1	CL	(13-15') Gray clay, no odor	
14		1			
15		1			
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APEX SOIL BORING LOG AND MONITORING WELL CONSTRUCTION DIAGRAM					
Boring/Well Number: PB-15		Site ID: Former Kinley Pipeline Council Bluffs, Iowa		Location: NW 1/4, NW 1/4, S 20, T74N, R43W Pottawattamie County	
Boring Depth (ft) X Diameter (in): 15' x 3"				Drilling Method: Geoprobe push point	
Well Contractor Name: Saberprobe Registration Number:				Logged By: Susan Dixon, N 41.12042 ,W 95.49072	
Date: 05/2/05 Start Time: 11:15		Date: 05/2/05 End Time: 11:45		Top of Casing Elevation (ASL):	
Depth (feet)	Well Construction Details	Sample Interval / Notes	PID (ppm)	USCS Class.	Soil/Lithology Classification
0		Sampled in 1' intervals			
1			0	CL	(0-4') Top soil, Dark brown, no odor
2			0		
3			0		
4		DTW, 2.9 feet	0	CL	(4-8') Medium gray clay, with brown spots, no odor
5			0		
6			0		
7			0		
8			0	CL	(8-12') Dark brown clay, no odor
9			0		
10		Soil sample @ 10 foot	0		
11			0		
12			0	CL	(12-15') Gray clay
13			0		
14			0		
15			0		
16					
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FORMER KINLEY PIPELINE
POTTAWATTAMIE COUNTY, IOWA
KINLEY CORPORATION

ATTACHMENT B
ANALYTICAL LABORATORY REPORT



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 10, 2005

Mr. Terry Cochran
APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

Date Received : May 03, 2005
Description : Former Kinley Pipeline

Sample ID : PB-11

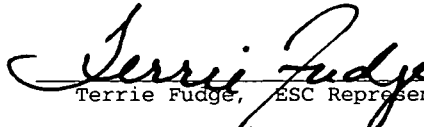
Collected By : Susan Dixon
Collection Date : 05/02/05 09:00

ESC Sample # : L197576-01

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Toluene	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	05/05/05	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	05/05/05	1
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	97.		% Rec.	8021/OA1	05/05/05	1
Gasoline Range (C7-C10)	BDL	0.10	mg/l	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	0.10	mg/l	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Total (C7-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	84.		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

Note:

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REPORT OF ANALYSIS

Mr. Terry Cochran
APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

May 10, 2005

Date Received : May 03, 2005
Description : Former Kinley Pipeline

ESC Sample # : L197576-02

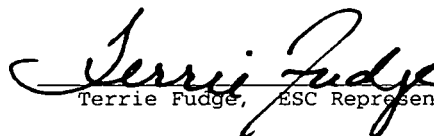
Sample ID : PB-12

Site ID : COUNCIL BLUFFS, IA

Collected By : Susan Dixon
Collection Date : 05/02/05 09:50

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Toluene	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	05/05/05	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	05/05/05	1
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	97.		% Rec.	8021/OA1	05/05/05	1
Gasoline Range (C7-C10)	BDL	0.10	mg/l	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	0.10	mg/l	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Total (C7-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	81.		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

Note:

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Mr. Terry Cochran
APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

Date Received : May 03, 2005
Description : Former Kinley Pipeline

Sample ID : PB-13

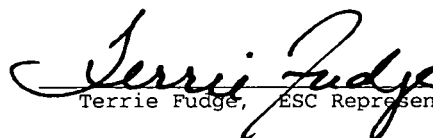
Collected By : Susan Dixon
Collection Date : 05/02/05 10:45

ESC Sample # : L197576-03

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Toluene	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	05/05/05	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	05/05/05	1
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	96.		% Rec.	8021/OA1	05/05/05	1
Gasoline Range (C7-C10)	BDL	0.10	mg/l	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	0.10	mg/l	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Total (C7-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	68.		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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9410 East 51 Street, Suite G
Tulsa, OK 74145

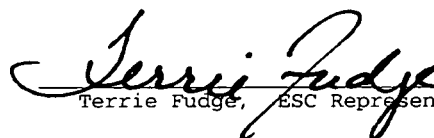
Date Received : May 03, 2005
Description : Former Kinley Pipeline
Sample ID : PB-14
Collected By : Susan Dixon
Collection Date : 05/02/05 12:20

ESC Sample # : L197576-04

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Toluene	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	05/05/05	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	05/05/05	1
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	97.		% Rec.	8021/OA1	05/05/05	1
Gasoline Range (C7-C10)	BDL	0.10	mg/l	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	0.10	mg/l	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Total (C7-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	79.		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

Date Received : May 03, 2005
Description : Former Kinley Pipeline

Sample ID : PB-15

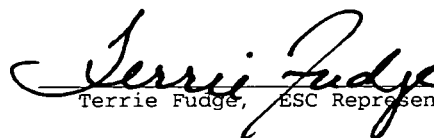
Collected By : Susan Dixon
Collection Date : 05/02/05 11:45

ESC Sample # : L197576-05

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Toluene	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
Ethylbenzene	BDL	0.00050	mg/l	8021/OA1	05/05/05	1
Total Xylene	BDL	0.0015	mg/l	8021/OA1	05/05/05	1
Methyl tert-butyl ether	BDL	0.0050	mg/l	8021/OA1	05/05/05	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	8021/OA1	05/05/05	1
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	97.		% Rec.	8021/OA1	05/05/05	1
Gasoline Range (C7-C10)	BDL	0.10	mg/l	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	0.10	mg/l	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Total (C7-C40)	BDL	0.25	mg/l	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	67.		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

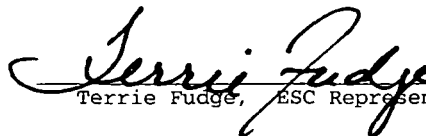
Date Received : May 03, 2005
Description : Former Kinley Pipeline
Sample ID : PB-11 8 FT
Collected By : Susan Dixon
Collection Date : 05/02/05 09:00

ESC Sample # : L197576-06

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Toluene	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	05/05/05	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	05/05/05	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene	95.		% Rec.	8021/OA1	05/05/05	5
Gasoline Range (C7-C10)	BDL	4.0	mg/kg	OA2	05/05/05	1
Diesel Range (C10-C20)	BDL	4.0	mg/kg	OA2	05/05/05	1
Oil Range (C20-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Total (C7-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Surrogate Recovery						
1-Methylnaphthalene	79.		% Rec.	OA2	05/05/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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9410 East 51 Street, Suite G
Tulsa, OK 74145

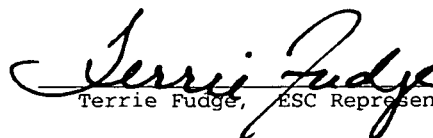
Date Received : May 03, 2005
Description : Former Kinley Pipeline
Sample ID : PB-12 7 FT
Collected By : Susan Dixon
Collection Date : 05/02/05 10:00

ESC Sample # : L197576-07

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Toluene	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	05/05/05	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	05/05/05	5
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	95.		% Rec.	8021/OA1	05/05/05	5
Gasoline Range (C7-C10)	BDL	4.0	mg/kg	OA2	05/05/05	1
Diesel Range (C10-C20)	BDL	4.0	mg/kg	OA2	05/05/05	1
Oil Range (C20-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Total (C7-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Surrogate Recovery 1-Methylnaphthalene	68.		% Rec.	OA2	05/05/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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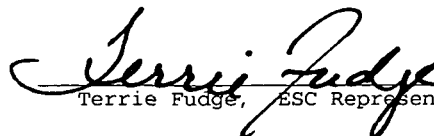
Date Received : May 03, 2005
Description : Former Kinley Pipeline
Sample ID : PB-13 14 FT
Collected By : Susan Dixon
Collection Date : 05/02/05 10:45

ESC Sample # : L197576-08

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Toluene	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	05/05/05	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	05/05/05	5
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	95.		% Rec.	8021/OA1	05/05/05	5
Gasoline Range (C7-C10)	BDL	4.0	mg/kg	OA2	05/09/05	1
Diesel Range (C10-C20)	BDL	4.0	mg/kg	OA2	05/09/05	1
Oil Range (C20-C40)	BDL	10.	mg/kg	OA2	05/09/05	1
Total (C7-C40)	BDL	10.	mg/kg	OA2	05/09/05	1
Surrogate Recovery 1-Methylnaphthalene	100		% Rec.	OA2	05/09/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

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L197576-08 (OA2IOWA) - redo



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APEX Environmental - Tulsa, OK
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Tulsa, OK 74145

May 10, 2005

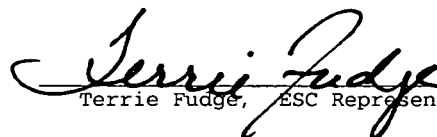
Date Received : May 03, 2005
Description : Former Kinley Pipeline
Sample ID : PB-14 10 FT
Collected By : Susan Dixon
Collection Date : 05/02/05 12:30

ESC Sample # : L197576-09

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Toluene	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	05/05/05	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	05/05/05	5
OA1 Surrogate(70-130)						
a,a,a-Trifluorotoluene	95.		% Rec.	8021/OA1	05/05/05	5
Gasoline Range (C7-C10)	BDL	4.0	mg/kg	OA2	05/05/05	1
Diesel Range (C10-C20)	BDL	4.0	mg/kg	OA2	05/05/05	1
Oil Range (C20-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Total (C7-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Surrogate Recovery						
1-Methylnaphthalene	71.		% Rec.	OA2	05/05/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/10/05 10:27 Printed: 05/10/05 10:28



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

May 10, 2005

Mr. Terry Cochran
APEX Environmental - Tulsa, OK
9410 East 51 Street, Suite G
Tulsa, OK 74145

Date Received : May 03, 2005
Description : Former Kinley Pipeline

Sample ID : PB-15 10 FT

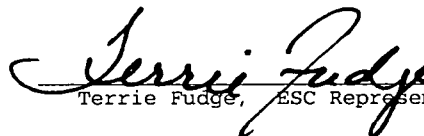
Collected By : Susan Dixon
Collection Date : 05/02/05 11:45

ESC Sample # : L197576-10

Site ID : COUNCIL BLUFFS, IA

Project # : 450373

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Toluene	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/OA1	05/05/05	5
Total Xylene	BDL	0.0075	mg/kg	8021/OA1	05/05/05	5
Methyl tert-butyl ether	BDL	0.025	mg/kg	8021/OA1	05/05/05	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8021/OA1	05/05/05	5
OA1 Surrogate(70-130) a,a,a-Trifluorotoluene	94.		% Rec.	8021/OA1	05/05/05	5
Gasoline Range (C7-C10)	BDL	4.0	mg/kg	OA2	05/05/05	1
Diesel Range (C10-C20)	BDL	4.0	mg/kg	OA2	05/05/05	1
Oil Range (C20-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Total (C7-C40)	BDL	10.	mg/kg	OA2	05/05/05	1
Surrogate Recovery 1-Methylnaphthalene	65.		% Rec.	OA2	05/05/05	1


Terrie Fudge, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ -0612, MN - 047-999-395, NY - 11742, NJ - 81002, WI - 998093910

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 05/10/05 10:27 Printed: 05/10/05 10:28

Summary of Remarks For Samples Printed
05/10/05 at 10:28:23

TSR Signing Reports: 064
R5 - Desired TAT

Sample: L197576-01 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-02 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-03 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-04 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-05 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-06 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-07 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-08 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-09 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27
Sample: L197576-10 Account: APEXTOK Received: 05/03/05 09:00 Due Date: 05/10/05 00:00 RPT Date: 05/10/05 10:27

APEX Environmental - Tulsa,
OK
 9410 East 51 Street, Suite G
 Tulsa, OK 74145

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
 Page 1 of 2

Report to: **Mr. Terry Cochran**

Email: **tcochran@apex-tulsa.com**

Project Description: **Former Kinley Pipeline.**

City/State Collected: **Council Bluffs Iowa**

Phone: (918) 610-3543
 FAX: (918) 610-3556

Client Project #:

450373

Lab Project #

APEXTOK-450373

Collected by (print): **Susan Dixon**

Site/Facility ID#: **COUNCIL BLUFFS, IA**

P.O.#:

Collected by (signature):

Rush? (Lab MUST Be Notified)
 ___ Same Day 200%
 ___ Next Day 100%
 ___ Two Day 50%

Date Results Needed

Email? ___ No ☒ Yes
 FAX? ___ No ___ Yes

No. of Cntrs

Packed on Ice ☒ N ☒ Y

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	OA1 20z Clr-NoPres	OA1 40ml Amb-HCl	OA2 1L Amb-NoPres	OA2 IOWA 40z Clr-NoPres	Remarks/Contaminant	Sample # (lab only)
PB-11	5/2/05	GW	8	5/3	9:00	3	X	X				17576-cl
PB-12		GW		5/2	9:50	3	X	X				52
PB-13		GW		5/2	10:45	3	X	X				53
PB-14		GW		5/2	12:20	3	X	X				54
PB-15		GW		5/2	11:45	3	X	X				55
PB-11		SS	8 feet	5/2	9:00	2	X			X		56
PB-12		SS	7 feet	5/2	10:00	2	X			X		57
PB-13		SS	14 feet	5/2	10:45	2	X			X		58
PB-14	V	SS	10 feet	5/2	12:30	2	X			X		59

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

8502 7555 0395

Relinquished by: (Signature) <i>Susan Dixon</i>	Date: 5/2/05	Time: 1:00pm	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>ok</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: 2-8 Bottles Received: 25+1TB	
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Date: 5-3-05 Time: 09:00	pH Checked: NCF

**APEX Environmental - Tulsa,
OK**
9410 East 51 Street, Suite G
Tulsa, OK 74145

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 2

Prepared by:

 ENVIRONMENTAL

SCIENCE CORP.

12065 Lebanon Road
Mt. Juliet, TN 37122

Phone (800) 767-5859

FAX (615) 758-5859

Report to: **Mr. Terry Cochran**

Email: **tcochran@apex-tulsa.com**

Project Description: Former Kinley Pipeline

City/State	Cornell Bluffs
Collected	T

Phone: (918) 610-3543
FAX: (918) 610-3556

Client Project #:

450373

Lab Project #

APEXTOK-450373

Collected by (print): Susan Dixon

Site/Facility ID#: **COUNCIL BLUFFS, IA**

P.O.#:

Collected by (signature):

Rush? (Lab MUST Be Notified)

Date Results Needed

___ Same Day	200%
___ Next Day	100%
___ Two Day	50%

Email? ☐ No ☒ Yes
FAX? ☐ No ☐ Yes

No.	of	Cntrs
-----	----	-------

Packed on Ice N Y X

[illegible]

Accnum: **APEXTOK** (lab use only)
 Template/Prelogin: **T30200:P14209**
 Cooler #: **4/19/05**
 Shipped Via: **FedEX Ground**

Remarks/Contaminant	Sample # (lab only)
---------------------	---------------------

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

Flow	Other
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

8502 7555 0395

Relinquished by: (Signature) <i>Susan Dixon</i>	Date: <i>9/2/05</i>	Time: <i>1:00 pm</i>	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) <i>OK</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: <i>2-8</i>	Bottles Received: <i>25 + 17.8</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <i>5-3-05</i>	Time: <i>09:00</i>
				pH Checked:	NCF