August 2000

22603-BRO-0000-06000

FORMER BROWN COMPRESSOR STATION CHARACTERIZATION REPORT

MEDINA COUNTY, OHIO

Prepared for

Columbia Gas Transmission Corporation
Environmental Affairs-Remediation
1700 MacCorkle Avenue, S.E
Charleston, West Virginia 25314

Prepared by

Baker Environmental, Inc.
Coraopolis, Pennsylvania

2.0 ENVIRONMENTAL SETTING

2.1 Physical Setting

The CS is in an area of low topographic relief and appears to be in a flood-prone area associated with Yaral Run. The CS is at an elevation of approximately 1,080 feet above mean sea level (msl) in the watershed of Yaral Run. Surrounding ridges are up to approximately 1,250 feet above msl (USGS, 1982).

The former operating portion of this CS (Figure 1-2) occupies approximately one acre. It is a rectangular area approximately 180 feet wide by 290 feet long, and is surrounded by a 4-foot high farm fence with a lockable gate. There is only one building on site; a portable shed used as a field office. The surface cover of the CS is grass and gravel. There does not appear to be any definitive slope or drainage channel for surface water runoff.

Land use bordering the CS includes grassland and Pealer Mill Road to the north, and agricultural land to the east, south and west.

2.2 Climate

The geographic area of the portion of Ohio in which the CS is located receives a mean annual precipitation of approximately 38.5 inches. Prevailing winds are generally from the south-southwest. Temperatures vary widely, with average lows during the winter months reaching 17 degrees Fahrenheit to average highs during the summer months reaching 82 degrees Fahrenheit. The greatest levels of precipitation occur between April and September. The average seasonal snowfall is approximately 30 inches. (Soil Survey of Knox County, Ohio, 1986).

2.3 Surface Water Hydrology

The site is located approximately 40 feet west of Yaral Run, which flows south in parallel to the eastern fenceline of the station. Yaral Run flows into Jelloway Creek, approximately 1.5 miles beyond the station (USGS, 1982). Because the site is relatively flat, surface drainage is not prominent in any given direction. There is an 8-inch diameter storm sewer pipe that drains from the compressor station into Yaral Run approximately 40 feet to the east.

2.4 Geology and Soils

The Former Brown CS is located on the glaciated, dissected Allegheny Plateau Physiographic Province (Figure 2-1). The bedrock of this region is of the Mississippian System/Logan and Cuyahoga Formations. This bedrock is sedimentary in origin, consisting mainly of sandstone, siltstone, and shale.

Soils at the CS are identified as Orrville silt loam (Or). This series consists of deep, nearly level, somewhat poorly drained soil on flood plains. Soils are typically a gray and brown friable silt loam to loam to approximately three feet bgs. Below this depth is a gravelly or sandy loam to approximately five feet bgs in some areas, while other areas of this series have stratified sand and gravel layers (Soil Survey of Knox County, Ohio, 1986).

2.5 Hydrogeology and Groundwater Quality

In valley bottoms, useable quantities of groundwater are generally obtained from both shallow dug wells in unconsolidated deposits and/or wells installed into bedrock formations. In other topographic areas, wells completed in bedrock or springs are a source of potable water supplies. Dug wells in the alluvium are common and generally yield water in sufficient quantities for domestic use. About 75 percent of the drilled wells in bedrock aquifers produce sufficient water for domestic purposes. Studies by state and

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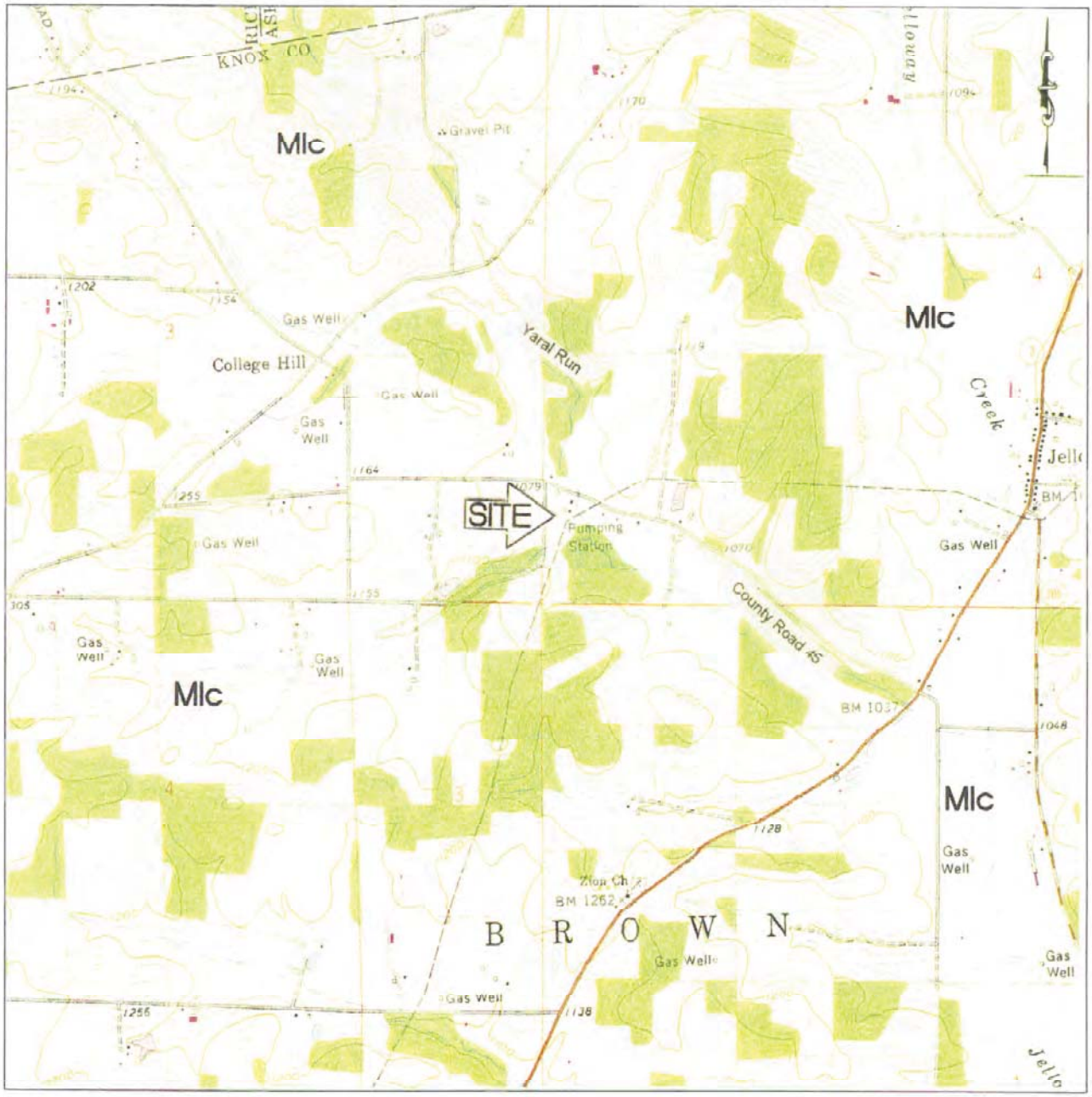

UNDERLYING THE CS IS MISSISSIPPIAN SYSTEM/ LOGAN AND CUYAHOGA FORMATIONS (Mlc) (UNDIVIED) BEDROCK. (CONSISTING MAINLY OF SANDSTONE, SILTSTONE, AND SHALE; THIN TO THICK BEDDING; 0 TO 650 FEET THICKNESS)

SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAP, JELLOWAY QUADRANGLE, OHIO.

2000 0 1000 2000
1 inch = 2000 ft.

QUADRANGLE LOCATION

Baker
Baker Environmental, Inc.

FIGURE 2-1
SITE GEOLOGY
FORMER BROWN COMPRESSOR STATION

COLUMBIA GAS TRANSMISSION CORPORATION
KNOX COUNTY, OHIO

REV: 0, 12/17/97

sediment sample were collected both up stream and down stream of the compressor station. Because the site has a water supply well, a groundwater sample was collected; as stated in the CWP (June 1996) and the SAP, groundwater characterization will be conducted if contaminated soils are detected at the groundwater interface or if the site's water supply well has been affected. In addition, one groundwater grab sample also was collected from three different borings (3 water samples total) to characterize the shallow groundwater horizon. In all, ten PRAs were evaluated, along with background and PCB samples.

Appendix A of the CWP (June 1996) provides a detailed presentation of SOPs for the conduct of field activities. To facilitate review of the characterization results, the following subsections briefly describe the methodologies used to collect samples and/or other components of the field characterization effort. In addition, all investigative derived wastes (IDW) will be disposed in accordance with SOP #20. Also discussed are SOP modifications necessary to complete the required field effort.

3.1.1 Soils

Surface soil sampling (< 1 foot bgs) at this site generally was performed using stainless steel hand trowels, disposable sample spoons, or the Geoprobe macrocore soil sampler following methodologies described in SOP #003 of the CWP (June 1996). Surface soil samples for PCBs and inorganics were obtained from the 0 to 0.5 foot interval. Surface soil samples for volatile and semi-volatile organic compounds (VOCs & SVOCs), benzene, toluene, ethylbenzene, total xylenes (BTEX), and TPH were obtained from a depth interval of 0.5 to 1 foot bgs. Where gravel fill was present, soil samples were collected from native soil after removing the gravel. The depth below ground surface of the native soils varied from 0.1 to 0.7 feet bgs.

Subsurface soil sampling required the use of a direct push (Geoprobe) method. All of the soil samples were logged in the field notebook using the Unified Soil Classification System. Headspace readings were collected for subsurface soil samples using a PID and

can be found on the Test Boring Logs presented in Appendix C. No other field instrumentation was utilized to screen soils.

3.1.2 Surface Water and Sediment Sampling

Surface water and sediment sampling was completed at Yaral Run (PRA #10). Sampling at this PRA generally was performed using a stainless steel hand auger for sediment collection and surface water samples were collected directly into the appropriate sample containers. Sediment samples were homogenized in a stainless steel bowl prior to placement into the appropriate sample containers. Two surface water and two sediment samples were collected as part of this characterization effort. The down stream (down gradient) sediment and surface water samples were collected prior to the up stream (up gradient) samples.

3.1.3 Groundwater Sampling

Two groundwater samples (including a duplicate sample) were collected from the on-site groundwater well. The site's water well is no longer in use. A groundwater grab sample was collected by opening a valve adjacent to where the discharge piping exits the ground. After opening the valve, the water was allowed to run for several minutes prior to sample collection. The groundwater grab samples were collected directly into the sample containers from the discharge piping.

In addition, one groundwater sample each was collected from three Geoprobe borings during the characterization. These samples were collected by lowering a stainless steel discrete groundwater sampler and dedicated discharge tubing into the open Geoprobe borehole and applying a vacuum to the line. The groundwater was brought to the surface through the vacuum and was allowed to discharge directly into the appropriate sample containers.

Table 4-3
Summary of Analytical Results

		PRA	0					
		PRA Description	BACKGROUND					
		Sample Type	Normal Sample					
		Sample Id	BRN-ASB016-70001		BRN-ASB017-70001		BRN-ASB018-70001	
		Depth - ft bgs	1 - 3		1 - 3		1 - 3	
		Collected Date	05/20/97		05/20/97		05/20/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	ND		ND		ND	
	CHLOROBENZENE	1600	ND		ND		ND	
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600	ND		ND		1.7	
	3- AND/OR 4-METHYLPHENOL	390	ND		ND		ND	
	DIESEL		ND		ND		ND	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	57.1		112		76.9	
	BERYLLIUM, TOTAL	160	ND		ND		1.7	
	CHROMIUM, TOTAL	230	15.7 J		22.9 J		22.1 J	
	LEAD, TOTAL	400	ND		ND		49.9 J	
	NICKEL, TOTAL	1600	15.7		17.4		27.2	
	ARSENIC, TOTAL	.43	18.7 J	X	21.0 J	X	71.3 J	X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description	**RANDOM PCB SAMPLES**					
		Sample Type	**Normal Sample**					
		Sample Id	**BRN-ASB013-70001**		**BRN-ASB014-70001**		**BRN-ASB015-70001**	
		Depth - ft bgs	**0 - .5**		**0 - .5**		**0 - .5**	
		Collected Date	**05/20/97**		**05/20/97**		**05/20/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE							
BNA	**NAPHTHALENE**	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL							
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

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Table 4-3
Summary of Analytical Results

		PRA	1		2			
		PRA Description	PRA #1-DRIP AT AREA		PRA #2-USED OIL UT			
		Sample Type	Normal Sample		Normal Sample			
		Sample Id	BRN-ASB001-70001		BRN-ASB002-70001		BRN-ASB003-70001	
		Depth - ft bgs	4 - 5		10 - 12		7 - 8	
		Collected Date	05/19/97		05/19/97		05/19/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85			ND		ND	
	TETRACHLOROETHYLENE(PCE)	12			ND		ND	
	CHLOROBENZENE	1600			ND		0.12	
	GASOLINE		ND		ND		310 J	
BNA	NAPHTHALENE	1600			ND		ND	
	3- AND/OR 4-METHYLPHENOL	390			ND		ND	
	DIESEL		ND		9.2		390 J	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500			37.1		35.2	
	BERYLLIUM, TOTAL	160			ND		ND	
	CHROMIUM, TOTAL	230			9.0		8.6	
	LEAD, TOTAL	400			ND		25.6	
	NICKEL, TOTAL	1600			ND		16.7	
	ARSENIC, TOTAL	.43			14.5 J	X	39.2 J	X

Notes:

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Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**BRN-ASB003-70002**		**BRN-ASB004-70001**		**BRN-ASB020-70001**	
		Depth - ft bgs	**12 - 14**		**0 - 1**		**12 - 14**	
		Collected Date	**05/19/97**		**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	0.011		ND		ND	
	CHLOROBENZENE	1600	ND		ND		ND	
	GASOLINE		ND		ND		ND	
BNA	**NAPHTHALENE**	1600	ND		ND		ND	
	3- AND/OR 4-METHYLPHENOL	390	ND		ND		ND	
	DIESEL		12		320 J		ND	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	66.1		99.5		66.5	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CHROMIUM, TOTAL	230	21.8		16.5		15.0	
	LEAD, TOTAL	400	ND		ND		ND	
	NICKEL, TOTAL	1600	22.5		14.1		17.8	
	ARSENIC, TOTAL	.43	17.5 J	X	18.6 J	X	16.3 J	X

Notes:

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Table 4-3
Summary of Analytical Results

		PRA	3					
		PRA Description	PRA #3-REBOILER					
		Sample Type	Normal Sample					
		Sample Id	BRN-ASB005-70001		BRN-ASB005-70002		BRN-ASB005-70003	
		Depth - ft bgs	0 - 1		1.5 - 2.5		4 - 5	
		Collected Date	05/19/97		05/19/97		05/19/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL		ND		ND		ND	
P/PCB	AROCLOR-1254	1						
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

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ND indicates Non-Detect
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Table 4-3
Summary of Analytical Results

		PRA	4					
		PRA Description	PRA #4-CURRENT COMPRESSOR SLAB					
		Sample Type	Normal Sample					
		Sample Id	BRN-ASB006-70001		BRN-ASB006-70002		BRN-ASB006-70003	
		Depth - ft bgs	0 - 1		1.5 - 2.5		4 - 5	
		Collected Date	05/19/97		05/19/97		05/19/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL		670		380		980	
P/PCB	AROCLOR-1254	1	0.29		0.47		0.17	
METAL	BARIUM, TOTAL	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

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Table 4-3
Summary of Analytical Results

		PRA			5			
		PRA Description			**PRA #5-FORMER COMPRESSOR BUILDING AREA**			
		Sample Type			**Normal Sample**			
		Sample Id	**BRN-ASS001-40001**		**BRN-ASB007-70001**		**BRN-ASB007-70002**	
		Depth - ft bgs	**0 - .5**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**05/19/97**		**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE		ND		ND		ND	
BNA	**NAPHTHALENE**	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL		2800		56		44	
P/PCB	**AROCLOR-1254**	1	0.086 J		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

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Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**BRN-ASB007-70003**		**BRN-ASB008-70001**		**BRN-ASB008-70002**	
		Depth - ft bgs	**4 - 5**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**05/19/97**		**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE		ND		ND		ND	
BNA	**NAPHTHALENE**	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL		170		67		1300	
P/PCB	**AROCLOR-1254**	1	ND		ND		0.076	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

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Table 4-3
Summary of Analytical Results

		PRA						
		PRA Description						
		Sample Type						
		Sample Id	**BRN-ASB008-70003**		**BRN-ASB009-70001**		**BRN-ASB009-70002**	
		Depth - ft bgs	**4 - 5**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**05/19/97**		**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85						
	TETRACHLOROETHYLENE(PCE)	12						
	CHLOROBENZENE	1600						
	GASOLINE		ND		ND		ND	
BNA	**NAPHTHALENE**	1600						
	3- AND/OR 4-METHYLPHENOL	390						
	DIESEL		650 J		21		9.2	
P/PCB	**AROCLOR-1254**	1	0.062		ND		ND	
METAL	**BARIUM, TOTAL**	5500						
	BERYLLIUM, TOTAL	160						
	CHROMIUM, TOTAL	230						
	LEAD, TOTAL	400						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

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Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA			6			
		PRA Description			PRA #6-FORMER TANK/FORMER REGULATOR BLDG AREA			
		Sample Type			Field Duplicate (Rep)		Normal Sample	
		Sample Id	BRN-ASB009-70003		BRN-ASB010-71001		BRN-ASB010-70001	
		Depth - ft bgs	4 - 5		10 - 12		10 - 12	
		Collected Date	05/19/97		05/20/97		05/20/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85			ND		0.007	
	TETRACHLOROETHYLENE(PCE)	12			ND		ND	
	CHLOROBENZENE	1600			ND		ND	
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600			ND		ND	
	3- AND/OR 4-METHYLPHENOL	390			ND		ND	
	DIESEL		520 J		20 J		10 J	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500			50.5 J		86.3 J	
	BERYLLIUM, TOTAL	160			ND		ND	
	CHROMIUM, TOTAL	230			13.4 J		20.8 J	
	LEAD, TOTAL	400			ND		ND	
	NICKEL, TOTAL	1600			22.6		32.7	
	ARSENIC, TOTAL	.43			15.3 J	X	16.7 J	X

Notes:

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Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA			7			
		PRA Description			**PRA #7-DEHY CONTACTOR**			
		Sample Type			**Normal Sample**			
		Sample Id	**BRN-ASB011-70001**		**BRN-ASB012-70001**		**BRN-ASB012-70002**	
		Depth - ft bgs	**10 - 12**		**0 - 1**		**1.5 - 2.5**	
		Collected Date	**05/20/97**		**05/20/97**		**05/20/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**MG/KG**		**MG/KG**		**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85	ND					
	TETRACHLOROETHYLENE(PCE)	12	ND					
	CHLOROBENZENE	1600	ND					
	GASOLINE		ND		ND		ND	
BNA	**NAPHTHALENE**	1600	ND					
	3- AND/OR 4-METHYLPHENOL	390	ND					
	DIESEL		20		36		7.0	
P/PCB	**AROCLOR-1254**	1	ND		ND		ND	
METAL	**BARIUM, TOTAL**	5500	11.2					
	BERYLLIUM, TOTAL	160	ND					
	CHROMIUM, TOTAL	230	4.8 J					
	LEAD, TOTAL	400	ND					
	NICKEL, TOTAL	1600	ND					
	ARSENIC, TOTAL	.43	6.7 J	X				

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA			9			
		PRA Description			PRA #9-DRUM STORAGE AREA			
		Sample Type			Normal Sample			
		Sample Id	BRN-ASB012-70003		BRN-ASB019-70001		BRN-ASB019-70002	
		Depth - ft bgs	4 - 5		0 - 1		1.5 - 2.5	
		Collected Date	05/20/97		05/20/97		05/20/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85			ND		ND	
	TETRACHLOROETHYLENE(PCE)	12			ND		ND	
	CHLOROBENZENE	1600			ND		ND	
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600			ND		ND	
	3- AND/OR 4-METHYLPHENOL	390			ND		ND	
	DIESEL		ND		160 J		1000 J	
P/PCB	AROCLOR-1254	1	ND		ND		0.057 J	
METAL	BARIUM, TOTAL	5500			84.1		110	
	BERYLLIUM, TOTAL	160			ND		ND	
	CHROMIUM, TOTAL	230			13.4 J		14.0 J	
	LEAD, TOTAL	400			ND		28.1 J	
	NICKEL, TOTAL	1600			17.7		12.2	
	ARSENIC, TOTAL	.43			14.9 J	X	12.4 J	X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA			10			
		PRA Description			PRA #10-YARAL RUN			
		Sample Type			Field Duplicate (Rep)		Normal Sample	
		Sample Id	BRN-ASB019-70003		BRN-ASD001-31001		BRN-ASD001-30001	
		Depth - ft bgs	4 - 5		0 - 0		0 - 0	
		Collected Date	05/20/97		05/19/97		05/19/97	
		Laboratory	Ecology and Environment, Inc.		Ecology and Environment, Inc.		Ecology and Environment, Inc.	
		Sample Collector	Baker Environmental, Inc.		Baker Environmental, Inc.		Baker Environmental, Inc.	
		Result Units	MG/KG		MG/KG		MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85	ND		ND		ND	
	TETRACHLOROETHYLENE(PCE)	12	0.011		ND		ND	
	CHLOROBENZENE	1600	ND		ND		ND	
	GASOLINE		ND		ND		ND	
BNA	NAPHTHALENE	1600	ND		ND		ND	
	3- AND/OR 4-METHYLPHENOL	390	ND		0.83 J		ND	
	DIESEL		510 J		12		8.7 J	
P/PCB	AROCLOR-1254	1	ND		ND		ND	
METAL	BARIUM, TOTAL	5500	136		57.8		39.6	
	BERYLLIUM, TOTAL	160	ND		ND		ND	
	CHROMIUM, TOTAL	230	19.3 J		10.9		7.1	
	LEAD, TOTAL	400	38.7 J		ND		ND	
	NICKEL, TOTAL	1600	15.4		13.6		ND	
	ARSENIC, TOTAL	.43	15.8 J	X	15.4 J	X	9.9 J	X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA		
		PRA Description		
		Sample Type		
		Sample Id	**BRN-ASD002-30001**	
		Depth - ft bgs	**0 - 0**	
		Collected Date	**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**	
		Result Units	**MG/KG**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	85	ND	
	TETRACHLOROETHYLENE(PCE)	12	ND	
	CHLOROBENZENE	1600	ND	
	GASOLINE		ND	
BNA	**NAPHTHALENE**	1600	ND	
	3- AND/OR 4-METHYLPHENOL	390	1.4 J	
	DIESEL		25	
P/PCB	**AROCLOR-1254**	1	ND	
METAL	**BARIUM, TOTAL**	5500	71.2	
	BERYLLIUM, TOTAL	160	ND	
	CHROMIUM, TOTAL	230	9.8	
	LEAD, TOTAL	400	ND	
	NICKEL, TOTAL	1600	ND	
	ARSENIC, TOTAL	.43	9.7 J	X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA	**8**					
		PRA Description	**PRA #8-GROUND WATER SAMPLES**					
		Sample Type	**Field Duplicate (Rep)**		**Normal Sample**			
		Sample Id	**BRN-AMW001-61001**		**BRN-AMW001-60001**		**BRN-ASB006-60001**	
		Depth - ft bgs	**0 - 0**		**0 - 0**		**0 - 0**	
		Collected Date	**05/19/97**		**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**UG/L**		**UG/L**		**UG/L**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	5	ND		ND		ND	
BNA	**DIESEL**		ND		ND		1500	
METAL	**BARIUM, TOTAL**	2000	230		240		ND	
	CHROMIUM, TOTAL	100	ND		ND		19.0	
	LEAD, TOTAL	15	ND		ND		49.0	X
	NICKEL, TOTAL	100	ND		ND		ND	
	ARSENIC, TOTAL	50	ND		ND		31.0	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

Table 4-3
Summary of Analytical Results

		PRA					10	
		PRA Description					**PRA #10-YARAL RUN**	
		Sample Type					**Field Duplicate (Rep)**	
		Sample Id	**BRN-ASB009-60001**		**BRN-ASB012-60001**		**BRN-ASW001-21001**	
		Depth - ft bgs	**0 - 0**		**0 - 0**		**0 - 0**	
		Collected Date	**05/19/97**		**05/20/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**UG/L**		**UG/L**		**UG/L**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	5	ND		8	X	ND	
BNA	**DIESEL**		4400 J		160		ND	
METAL	**BARIUM, TOTAL**	2000	390		270		ND	
	CHROMIUM, TOTAL	100	63.0		59.0		ND	
	LEAD, TOTAL	15	77.0	X	75.0	X	ND	
	NICKEL, TOTAL	100	69.0		66.0		ND	
	ARSENIC, TOTAL	50	78.0	X	84.0	X	ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999

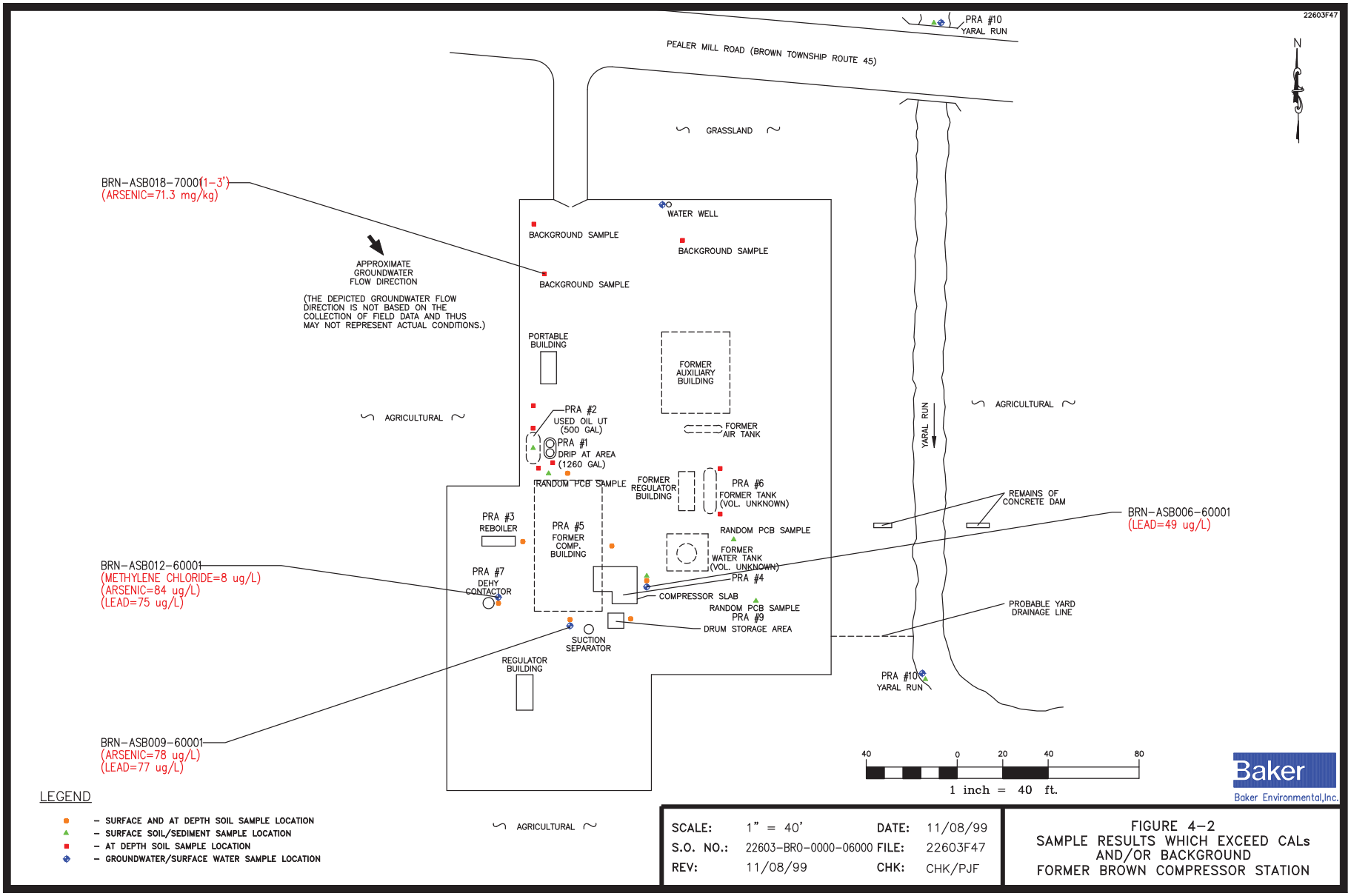
Table 4-3
Summary of Analytical Results

		PRA				
		PRA Description				
		Sample Type	**Normal Sample**			
		Sample Id	**BRN-ASW001-20001**		**BRN-ASW002-20001**	
		Depth - ft bgs	**0 - 0**		**0 - 0**	
		Collected Date	**05/19/97**		**05/19/97**	
		Laboratory	**Ecology and Environment, Inc.**		**Ecology and Environment, Inc.**	
		Sample Collector	**Baker Environmental, Inc.**		**Baker Environmental, Inc.**	
		Result Units	**UG/L**		**UG/L**	
Category	Analyte	Action Level	**Result Flag**	**> CAL***	**Result Flag**	**> CAL***
VOA	**METHYLENE CHLORIDE**	5	ND		ND	
BNA	**DIESEL**		ND		ND	
METAL	**BARIUM, TOTAL**	2000	ND		ND	
	CHROMIUM, TOTAL	100	ND		ND	
	LEAD, TOTAL	15	ND		ND	
	NICKEL, TOTAL	100	ND		ND	
	ARSENIC, TOTAL	50	ND		ND	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.
J flag - Numerical value is an estimated quantity.
ND indicates Non-Detect
Blank cells in result column indicate an analysis was not performed for that analyte.

Date generated: November 15, 1999



LEGEND

- SURFACE AND AT DEPTH SOIL SAMPLE LOCATION
- SURFACE SOIL/SEDIMENT SAMPLE LOCATION
- AT DEPTH SOIL SAMPLE LOCATION
- GROUNDWATER/SURFACE WATER SAMPLE LOCATION

SCALE:	1" = 40'	DATE:	11/08/99
S.O. NO.:	22603-BR0-0000-06000	FILE:	22603F47
REV:	11/08/99	CHK:	CHK/PJF

FIGURE 4-2
SAMPLE RESULTS WHICH EXCEED CALs AND/OR BACKGROUND
FORMER BROWN COMPRESSOR STATION

APPENDIX C

Test Boring Logs

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA 1

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Drip Tank (BTEX, PCBs, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1							
2	N						
3							
4 4.0					4.0		
5 5.0	S-1		BRO-ASB-001-70001	0.0	SILTY CLAY; gray-brown; moist; plastic 5.0		
6					Bottom of Boring at 5.0'		
7							
8							
9							
10							

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA 1

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA2-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 12.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Used Oil UT (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1									
2		N							
3									
4	4.0								
5									
6		N							
7									
8	8.0								
9									
10	10.0								

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring A

SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

CTO NO.: 22603-BRO

BORING NO.: PRA2-Boring A

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	LAB ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11		S-1		BRO-ASB-002-70001	0.0		Continued from Sheet 1 SILTY CLAY; brown		
12	12.0								
13							Bottom of Boring at 12.0'		
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring A

SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA2-Boring B

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe

	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 14.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Used Oil UT (Table 1)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1							
2	N						
3							
4 4.0							
5							
6	N						
7 7.0					7.0		
8 8.0	S-1		BRO-ASB-003-70001	85.0	SAND (med. grained); wet; black stained		
9							
10	N						

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring B

SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

CTO NO.: 22603-BRO

BORING NO.: PRA2-Boring B

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	LAB ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11					Continued from Sheet 1		
12 12.0					12.0		
13	S-2		BRO-ASB-003-70002	1.0	SILTY CLAY; gray and brown; stiff; slight odor		
14 14.0					14.0		
15					Bottom of Boring at 14.0'		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring B

SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA2-Boring C

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe

	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 1.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Used Oil UT (Table 1), Collected at Fill Port

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-004-70001	0.0		SILTY CLAY; brown 1.0		
2							Bottom of Boring at 1.0'		
3									
4									
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring C

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA2-Boring D

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 14.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Used Oil UT (Table 1), Step-out Boring from Boring "B" (10' North)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1									
2		N							
3									
4	4.0								
5							Sand Horizon at 4.8'		
6		N							
7									
8	8.0								
9		N							
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA2-Boring D

SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

CTO NO.: 22603-BRO BORING NO.: PRA2-Boring D

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	LAB ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11					Continued from Sheet 1		
12 12.0					12.0		
13	S-1		BRO-ASB-020-70001	0.0	SILTY CLAY; dark gray; stiff; med. plastic		
14 14.0					14.0		
					Bottom of Boring at 14.0'		
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Subsurface, Inc. BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] BORING NO.: PRA2-Boring D SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA 3

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Reboiler (Glycol, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-005-70001	0.0		SILTY CLAY; brown		
	1.5	N					1.5		
2	2.5	S-2		BRO-ASB-005-70002	0.0		SAND (large grained); moist to wet		
3		N							
4	4.0						4.0		
5	5.0	S-3		BRO-ASB-005-70003	0.0		SILTY CLAY; plastic; moist 5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA 3 | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA 4

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Current Compressor Slab (PCB, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-006-70001	0.0			
	1.5	N						
2	2.5	S-2		BRO-ASB-006-70002	0.0			
3		N						
4	4.0							
5	5.0	S-3		BRO-ASB-006-70003	0.0			
						5.0		
6						Bottom of Boring at 5.0'		
7								
8								
9								
10								

DRILLING CO.: Subsurface, Inc.

BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted]

BORING NO.: PRA 4

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA5-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former Compressor Bldg. Area (PCBs, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-007-70001	0.0		GRAVELLY CLAY; brown		
	1.5	N							
2	2.5	S-2		BRO-ASB-007-70002	0.0				
3		N							
4	4.0								
5	5.0	S-3		BRO-ASB-007-70003	0.0		moist 5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted]

BORING NO.: PRA5-Boring A

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA5-Boring B

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former Compressor Bldg. Area (PCBs, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-008-70001	0.0		GRAVELLY CLAY; gray; damp		
	1.5	N							
2	2.5	S-2		BRO-ASB-008-70002	100.0				
3		N							
4	4.0								
5	5.0	S-3		BRO-ASB-008-70003	6.0		moist		
							5.0 Bottom of Boring at 5.0'		
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA5-Boring B | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA5-Boring C

COORDINATES: EAST: NORTH:

ELEVATION: SURFACE: TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/19/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former Compressor Bldg. Area (PCBs, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-009-70001	0.0		GRAVELLY CLAY; gray; damp		
	1.5	N							
2	2.5	S-2		BRO-ASB-009-70002	0.0				
3		N							
4	4.0								
5	5.0	S-3		BRO-ASB-009-70003	3.0		moist		
							5.0 Bottom of Boring at 5.0'		
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA5-Boring C

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA6-Boring A

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 12.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former Tank Area (Table 1-CWP)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1							
2	N						
3							
4 4.0							
5					5.5		
6	N				SILTY CLAY TO LARGE GRADED, POORLY SORTED WET SAND; brown 7.0		
7					SILTY CLAY; gray; stiff; impermeable		
8 8.0							
9							
10 10.0					10.0		

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA6-Boring A | SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

CTO NO.: 22603-BRO

BORING NO.: PRA6-Boring A

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	LAB ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11		S-1		BRO-ASB-011-70001	0.0		Continued from Sheet 1 SANDY CLAY; gray; dry		
12	12.0						12.0		
							Bottom of Boring at 12.0'		
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA6-Boring A

SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA6-Boring B

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 12.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Former Tank Area (Table 1-CWP)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1								
2	N							
3								
4	4.0							
5								
6	N							
7								
8	8.0							
9								
10	10.0							

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA6-Boring B | SHEET 1 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

CTO NO.: 22603-BRO

BORING NO.: PRA6-Boring B

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston N = No Sample

DEFINITIONS

SPT = Standard Penetration Test (ASTM D1586)
PID = Photo Ionization Detector Measurement
MSL = Mean Sea Level
ps/bg = point source/background

Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	LAB ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
11					Continued from Sheet 1		
	S-1		BRO-ASB-010-70001	0.0	CLAY; gray; stiff; non-permeable		
12 12.0					Duplicate (BRO-ASB010-71001) 12.0		
					Bottom of Boring at 12.0'		
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA6-Boring B

SHEET 2 OF 2

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA 7

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe

	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Dehy Contactor (PCBs, BTEX, TPH)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-012-70001	0.0		GRAVELLY SAND; wet collect MS/MSD		
	1.5	N					1.5		
2	2.5	S-2		BRO-ASB-012-70002	0.0		SILTY CLAY; brown; moist; plastic		
3		N							
4	4.0								
5	5.0	S-3		BRO-ASB-012-70003	0.0		5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]

BORING NO.: PRA 7 SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA10-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe

	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N					1.0		
2		S-1		BRO-ASB-016-70001	0.0		SILTY CLAY; brown; stiff; moist Collect MS/MSD		
3	3.0						3.0		
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted]

BORING NO.: PRA10-Boring A

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO

BORING NO.: PRA10-Boring B

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N					1.0		
2		S-1		BRO-ASB-017-70001	0.0		SILTY CLAY; brown; stiff; moist		
3	3.0						3.0		
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted]

BORING NO.: PRA10-Boring B

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station

SO NO.: 22603-BRO | BORING NO.: PRA10-Boring C

COORDINATES: EAST: | NORTH:

ELEVATION: SURFACE: | TOP OF PVC CASING:

Rig: Geoprobe

	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Background

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N					1.0		
2		S-1		BRO-ASB-018-70001	0.0		SILTY CLAY; brown; stiff; moist		
3	3.0						3.0		
4							Bottom of Boring at 3.0'		
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc. | BAKER REP.: (b) (4) [redacted]

DRILLER: (b) (4) [redacted] | BORING NO.: PRA10-Boring C | SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Brown Compressor Station
SO NO.: 22603-BRO
BORING NO.: PRA 11
COORDINATES: EAST:
NORTH:
ELEVATION: SURFACE:
TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Drum Storage Area (Table 1 and Glycol)

SAMPLE TYPE

S = Split Spoon A = Auger
T = Shelby Tube W = Wash
R = Air Rotary C = Core
D = Denison P = Piston
N = No Sample

WELL INFORMATION

Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)

Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1	1.0	S-1		BRO-ASB-019-70001	0.0		GRAVELLY CLAYEY SILT; dk. brown		
	1.5	N							
2	2.5	S-2		BRO-ASB-019-70002	0.0				
3		N							
4	4.0								
5	5.0	S-3		BRO-ASB-019-70003	0.0		5.0		
6							Bottom of Boring at 5.0'		
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4) [redacted]

BAKER REP.: (b) (4) [redacted]
BORING NO.: PRA 11 SHEET 1 OF 1