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REPORTS

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**JULY 2005 SOIL AND GROUNDWATER SAMPLING REPORT
HOBBS (FRACMASTER), NEW MEXICO FACILITY**

BJ SERVICES COMPANY, U.S.A.

February 14, 2006

**JULY 2005 SOIL AND GROUNDWATER SAMPLING REPORT
HOBBS (FRACMASTER), NEW MEXICO FACILITY**

Prepared for

BJ Services Company, U.S.A.
11211 FM 2920
Tomball, Texas 77375

BC Project Number: 128125.001



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February 14, 2006

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"This is a report and is not intended to be a final representation of the work done or recommendations made by Brown and Caldwell. It should not be relied upon; consult the final report."

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DISTRIBUTION AND QA/QC REVIEWER'S SIGNATURE

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1.0 INTRODUCTION

Brown and Caldwell conducted a soil and groundwater sampling investigation at the BJ Services Company, U.S.A. (BJ Services) FracMaster facility located at 1329 N. West County Road in Hobbs, New Mexico on July 12-14, 2005. A site location map is included as Figure 1. This report presents a description of the field activities and a summary and evaluation of the analytical results.

A layout of the facility is shown in Figure 2. A former field waste tank and approximately 1,400 tons of soil were previously removed at the inactive BJ Services FracMaster facility in Hobbs, New Mexico. Post-excavation samples reportedly indicated impacts to soil by gasoline- and diesel-range total petroleum hydrocarbons (TPH-G and TPH-D). Volatile and semivolatile organic compounds (VOCs and SVOCs) were reportedly detected in the post-excavation floor sample; the post-excavation sidewall samples were not analyzed for VOCs and SVOCs. The approximately 25-foot deep excavated area was subsequently backfilled. Pursuant to a request by BJ Services, Brown and Caldwell conducted subsurface sampling at locations within and surrounding the backfilled area.

2.0 FIELD ACTIVITIES

Brown and Caldwell installed five soil borings in the vicinity of the formerly excavated area using hollow stem auger drilling techniques to define the vertical and horizontal extent of impacted soils. An area approximately 25 feet by 30 feet was determined to be the extent of the excavated area. The locations of the soil borings are shown in Figure 2. A temporary well was installed in the east side soil boring. The following subsections describe the field activities conducted by Brown and Caldwell during the groundwater sampling and soil sampling event. Section 3.0 presents an evaluation of these data.

2.1 Soil Sampling Activities

Soil boring MS was advanced at the center of the formerly excavated area. Soil cores were collected at approximate 5-foot centers from a depth of 20 feet below ground surface (bgs) (bottom of excavated area) to a total depth (TD) of 48 feet bgs. Recovered soil cores were logged in accordance with the Unified Soil Classification System (USCS) and scanned with a calibrated photoionization detector (PID). This soil boring was advanced until the top of the saturated zone was encountered.

Brown and Caldwell advanced one soil boring each at locations to the north (NS), east (ES), south (SS), and west (WS) of the backfilled area. Soil cores were collected at approximate 5-foot centers from the ground surface to the TD of the boring at each of these locations. Recovered soil cores were USCS-logged and PID-scanned. Soil borings ES and WS (east and west sides, respectively, of the backfilled area) were advanced until the top of the saturated zone was encountered at approximately 49 feet to 49.5 feet bgs. Soil boring NS (north side of backfilled area) was advanced to a depth of 36 feet bgs; the boring was terminated at this depth because minimal PID response was recorded in soil cores recovered from the 12-foot interval below 24 feet bgs. There were no elevated PID readings observed in soil boring SS (south side of backfilled area), so this soil boring was terminated at a depth of 31 feet bgs. Soil boring logs, indicating lithology and PID responses, are provided in Appendix A.

Soil samples were typically collected from the interval of maximum PID response and from the TD of each soil boring. A single soil sample was collected from soil boring SS at its TD because there were no elevated PID responses observed throughout the boring. Soil samples collected from the interval of maximum PID response or TD at each soil boring location were analyzed for the following parameters:

- TPH-G and TPH-D by Method 8015M;
- VOCs by Method 8260B; and
- SVOCs by Method 8270C.

2.2 Groundwater Sampling Activities

A temporary monitor well was placed in soil boring ES (east side of backfilled area) because elevated PID responses were recorded throughout the vadose zone until the top of the saturated zone was encountered. The temporary monitor well was constructed using 10 feet of 2-inch diameter 0.01-inch machine slotted PVC screen and sufficient 2-inch diameter PVC riser pipe to extend the well to the ground surface. The well screen was placed to capture the saturated zone such that approximately 5 feet of screen is situated above the apparent top of the saturated zone and approximately 5 feet of screen is situated below the apparent top of the saturated zone. The annular area of the temporary well was backfilled with 20/40-grade filter sand installed from the TD of the well to approximately 2 feet above the top of the screen. The temporary well was developed with previously unused disposable bailers until produced groundwater was clear and reasonably free of suspended sediment. The depth to static water was measured at approximately 49.84 feet bgs. Groundwater appears to exist under unconfined conditions in the uppermost aquifer at the facility (see boring logs in Appendix A).

The temporary monitor well was purged with a submersible pump and a groundwater sample was obtained directly from the discharge line of the submersible pump. The groundwater sample was placed in laboratory-prepared, clean glass or plastic containers, sealed with Teflon[®]-lined lids,

labeled, and placed on ice in an insulated cooler for delivery to Southern Petroleum Laboratory in Houston, Texas for analysis using standard chain-of-custody procedures. The laboratory analytical reports and chain-of-custody documentation for groundwater samples collected during the current sampling event are provided in Appendix B.

The groundwater sample was analyzed for the specific TPH, VOC, and SVOC constituents that were detected in the overlying soil samples. Additionally, both filtered (0.45-micron filter) and non-filtered groundwater samples were collected from the temporary monitor well. The non-filtered groundwater sample was analyzed for RCRA metals using SW-846 3010/601/7000 Series methodology; the filtered groundwater sample was analyzed for chromium using this analytical methodology.

The temporary monitor well was removed upon completion of groundwater sampling. Each of the soil borings were backfilled from TD to ground surface with tremie-installed cement/bentonite grout. Used PVC well materials were placed in a dumpster at the nearby active BJ Services facility in Hobbs, New Mexico.

2.3 Quality Assurance / Quality Control (QA/QC) Samples

A trip blank and a field blank were collected on each day that a soil or groundwater sample was collected. These QA/QC samples were analyzed for VOCs by Method 8260B. An equipment rinse blank pertaining to soil samples was collected. An equipment rinse blank pertaining to the groundwater sample was also collected. Each of the rinsate samples were analyzed for TPH-G and TPH-D by Method 8015M, VOCs by Method 8260B, and SVOCs by Method 8270C. A non-filtered equipment rinse blank pertaining to metals was collected in association with the groundwater sample.

2.4 Decontamination and Waste Management

Decontamination procedures consisted of washing drilling equipment with a pressurized steam cleaner and potable water. The sampling equipment was decontaminated using distilled water

and a non-phosphate detergent. Soil cuttings and decontamination water were placed in appropriately labeled 55-gallon drums and stored onsite pending analytical results for classification and disposal by BJ Services.

3.0 ANALYTICAL RESULTS

The following subsections present the analytical results for soil and groundwater samples collected during the July 2005 sampling event.

3.1 Soil Samples

The soil samples were analyzed for the following parameters using the indicated analytical methodologies:

- TPH-G and TPH-D by Method 8015M;
- VOCs by Method 8260B; and
- SVOCs by Method 8270C.

TPH, VOCs, and SVOCs were not detected above the associated method detection limits in soil sample NS-24-25'; therefore, analysis of the underlying sample (NS-34-35') was not performed. TPH, VOCs, and SVOCs analysis results were compared to New Mexico Oil Conservation Division (NMOCD) criteria listed in "Guidelines for Remediation of Leaks, Spills, and Releases (NMOCD, August 13, 1993). The NMOCD soil remediation action levels for unsaturated contaminated soils (for a NMOCD hazard ranking of >19, based on groundwater occurrence at <50 feet) are benzene at 10 milligrams per kilogram (mg/kg), total benzene, toluene, ethylbenzene, and xylenes (BTEX) at 50 mg/kg, and TPH at 100 mg/kg. Table 1 summarizes the results for soil samples collected from soil borings NS, ES, SS, WS, and MS. The laboratory analytical report and chain-of-custody documentation for soil samples collected during the July 2005 sampling activities are provided in Appendix B.

TPH concentrations in soil borings ES-14-15', WS-19-20', MS-24-25', and MS-45-46' exceed the NMOCD remediation action level of 100 mg/kg. TPH concentrations in these borings ranged from 670 mg/kg to 37,000 mg/kg. TPH impacts on the east and west sides of the

formerly excavated area were defined vertically by respective underlying samples ES-47-48' and WS-48-49'. TPH was not detected in soil samples collected on the north or south side of the formerly excavated area.

Total BTEX concentrations exceeded the applicable NMOCD standard of 50 mg/kg in samples ES-14-15', WS-19-20', MS-24-25', and MS-45-46'. Total BTEX concentrations ranged from 312 mg/kg to 599.11 mg/kg. As in the case of TPH, the vertical extents of BTEX impact on the east and west sides of the formerly excavated area were defined by underlying non-impacted samples, and BTEX constituents were not detected in soil samples collected on the north or south sides of the formerly excavated area. None of the soil samples displayed concentrations of benzene that exceeded the NMOCD remediation action level of 10 mg/kg.

3.2 Groundwater Samples

The groundwater sample from soil boring ES was analyzed for RCRA metals and the organics detected in one or more of the July 2005 soils samples using the indicated analytical methodologies:

- TPH-G and TPH-D by Method 8015M;
- VOCs by Method 8260B;
- SVOCs by Method 8270C; and
- RCRA Metals by SW-846 3010/601/7000.

Table 2 presents results for analyses of the groundwater sample collected at the facility.

With the exception of chromium, concentrations of all RCRA metals are less than applicable New Mexico Water Quality Control Commission (NMWQCC) standards. The detection of total chromium at 0.0805 milligrams per liter (mg/L) exceeds the NMWQCC standard of 0.05 mg/L, but the dissolved chromium concentration of 0.016 mg/L is less than the NMWQCC standard. Concentrations of benzene, naphthalene, and total xylenes exceeded the applicable NMWQCC criteria, as indicated in Table 2. TPH was also detected in the groundwater sample.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on information obtained during the July 2005 sampling event at the BJ Services FracMaster Hobbs, New Mexico facility.

4.1 Conclusions

- TPH, VOCs, and SVOCs concentrations measured in on-site soil borings NS and SS during the current soil sampling event are less than the NMOCD remediation action levels, indicating that impacted soils are not present beyond the northern and southern boundaries of the formerly excavated pit.
- Elevated TPH, VOCs, and SVOCs concentrations in soil were observed in the vadose zone in soil borings ES and WS, which are located on the eastern and western sides, respectively, of the formerly excavated area. These soil impacts are delineated vertically above the top of the saturated zone.
- Groundwater is present at approximately 46' to 49.5' below grade under unconfined conditions in the uppermost aquifer in the vicinity of the formerly excavated area at the site.
- Benzene, naphthalene, and xylenes were detected in the groundwater sample collected from the uppermost aquifer at the ES location to the east of the backfilled area at concentrations exceeding NMWQCC criteria.

4.2 Recommendations

- Install offset borings further east and west of the ES and WS locations to define lateral impact of soil impacts; advance these borings to the saturated zone and install permanent monitor wells; install a third monitor well, to the north or south of the former pit; collect groundwater elevation data and groundwater samples from these wells to determine groundwater flow direction and more fully evaluate the extent of groundwater impact.
- Analyze soil samples collected from the offset borings for BTEX, TPH-D, and TPH-D. Analyze groundwater samples collected from the permanent monitor wells for BTEX, naphthalene and chloride.
- Develop a Remedial Action Plan based on the results of the recommended delineation soil and groundwater sampling activities described above.

DISTRIBUTION

July 2005 Soil and Groundwater Sampling Report
BJ Services Company, U.S.A.
Hobbs (Fracmaster), New Mexico Facility

February 14, 2006

Final Distribution as follows:

1 copy to: State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Attention: Mr. Wayne Price

1 copy to: State of New Mexico
Oil Conservation Division, Hobbs District Office
1625 N. French Dr.
Post Office Box 1980
Hobbs, New Mexico 88240

Attention: Mr. Chris Williams

1 copy to: BJ Services Company, U.S.A.
2708 West County Road
Hobbs, New Mexico 88240

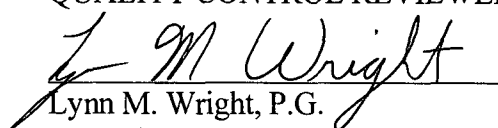
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Tomball, Texas 77375

Attention: Ms. Jo Ann Cobb

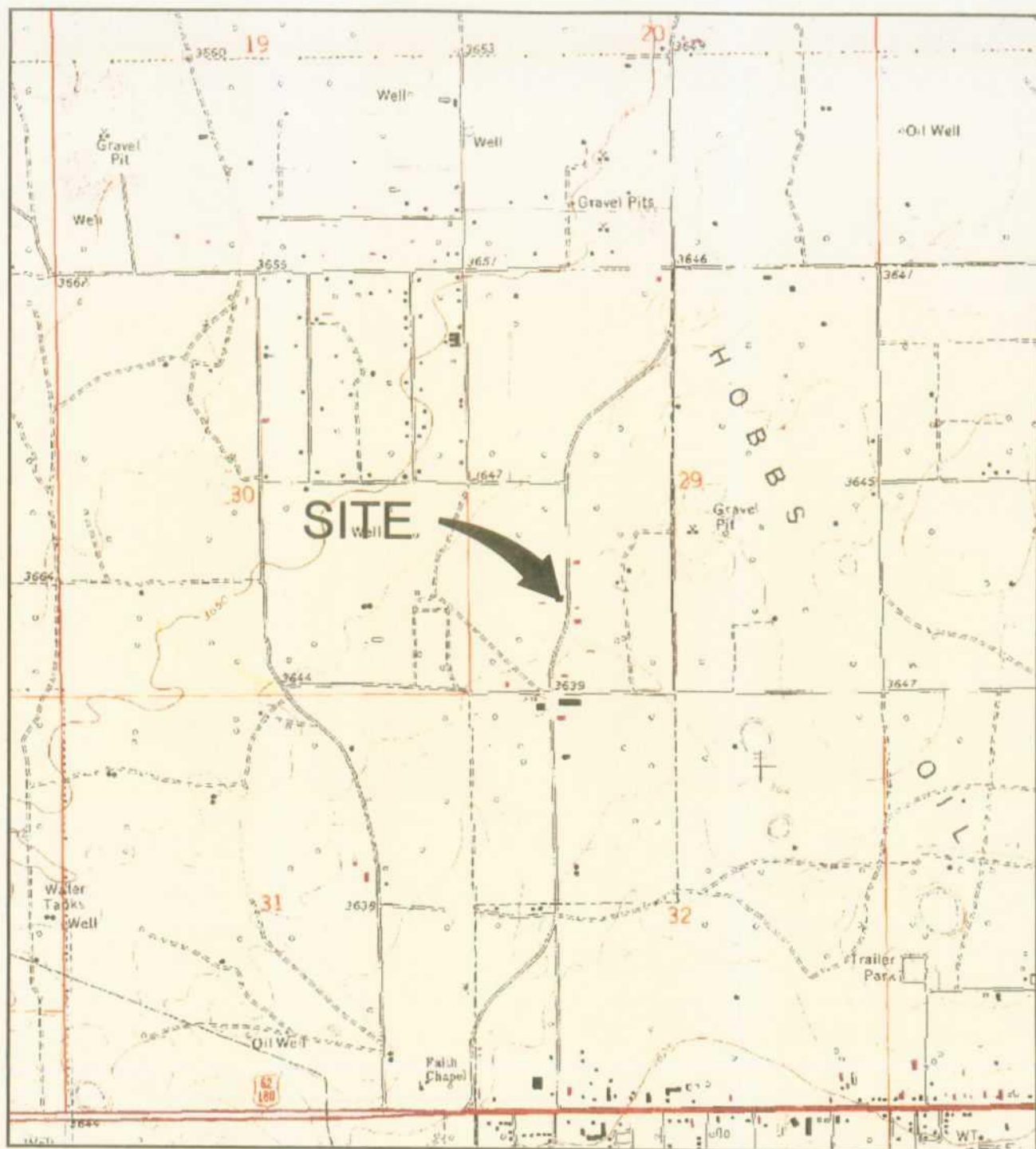
1 copy to: Brown and Caldwell Project File

QUALITY CONTROL REVIEWER


Lynn M. Wright, P.G.
Supervising Geologist

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FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE - HOBBS, NEW MEXICO, 1979



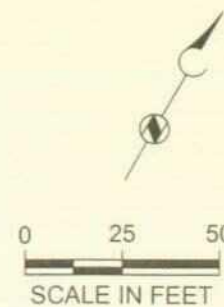
SCALE: 1" = 2000'

Figure 1

SITE LOCATION MAP
BJ SERVICES FRACMASTER
BJ SERVICES COMPANY, U.S.A.
 1329 N. WEST COUNTY ROAD
 HOBBS, NEW MEXICO

**BROWN AND
 CALDWELL**

**BROWN AND
CALDWELL**



SITE PLAN LEGEND

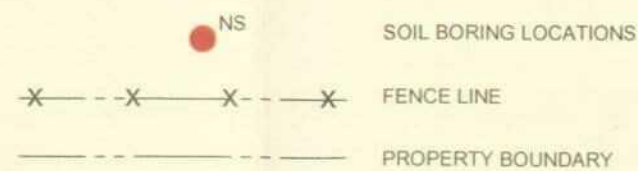
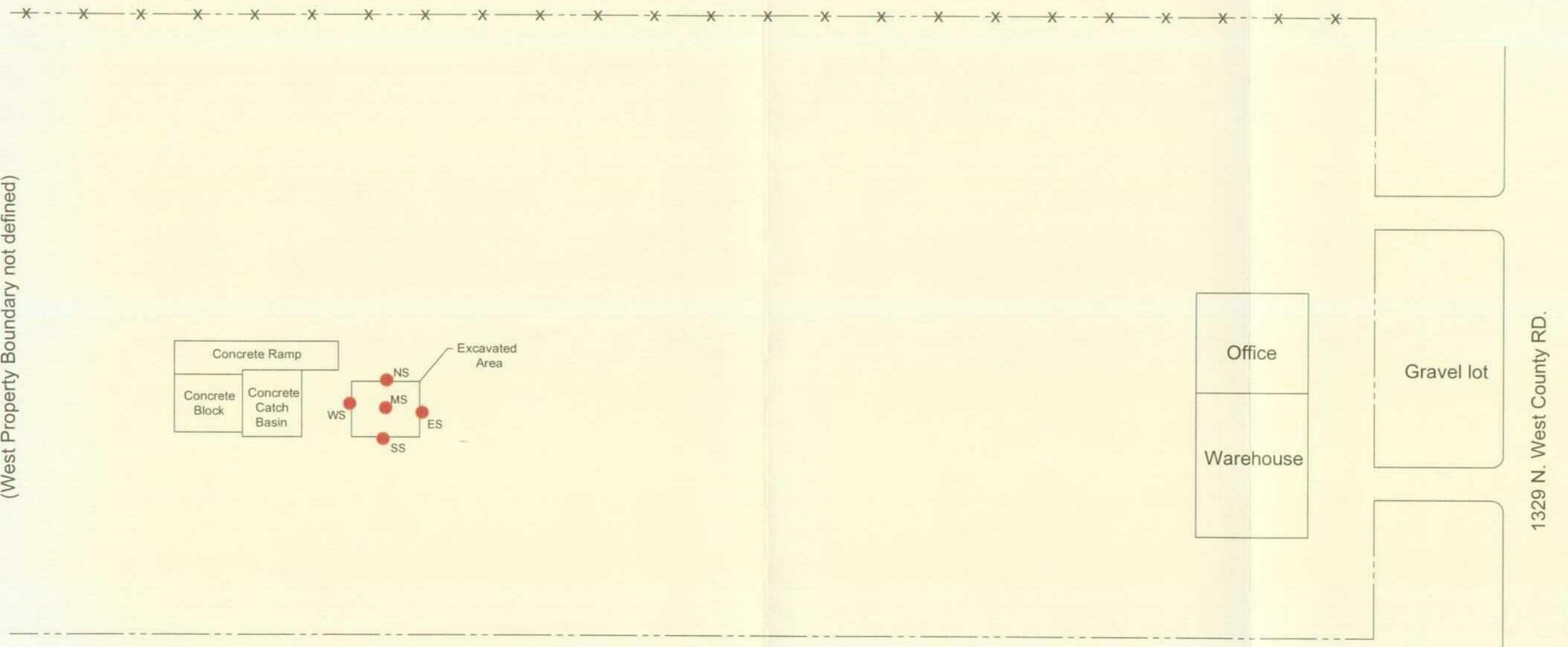


Figure 2
SITE MAP
BJ SERVICES FRACMASTER
BJ SERVICES COMPANY, U.S.A.
1329 N. WEST COUNTY ROAD
HOBBS, NEW MEXICO

(West Property Boundary not defined)



TABLES

Table 1
Summary of Detected Constituents⁽¹⁾ in Soil Samples
BJ Services - Hobbs (Fracmaster Facility), New Mexico

Location	NS (North Side)	ES (East Side)	SS (South Side)	WS (West Side)	MS (Middle of Excavated Area)
Depth (ft. below grade)	24-25	14-15	30-31	19-20	24-25
TPH-D ⁽²⁾	<5.4	37,000	9.5	670	3,700
TPH-G ⁽²⁾	<0.11	3,000	<0.1	1,100	3,600
SVOCs					
2-Methylnaphthalene	<0.360	160,000	<0.330	0.770	120,000
2-Methylphenol	<0.360	<20,000	<0.330	<0.350	<1,900
3 & 4-Methylphenol	<0.360	<20,000	<0.330	<0.350	<1,900
Naphthalene	<0.360	57,000	<0.330	<0.350	140,000
Phenanthrene	<0.360	30,000	<0.330	0.440	2,500
VOCs					
Benzene ⁽²⁾	<0.0054	1,500	<0.005	<0.0053	0.110
n-Butylbenzene	<0.0054	30,000	<0.005	<0.0053	<0.0056
sec-Butylbenzene	<0.0054	20,000	0.009	<0.0053	38,000
Carbon disulfide	<0.0054	<0.250	<0.005	<0.0053	6,200 J
4-Chlorotoluene	<0.0054	4,900	<0.005	<0.350	<0.0056
Ethylbenzene ⁽²⁾	<0.0054	32,000	<0.005	8,000	39,000
Isopropylbenzene	<0.0054	21,000	0.017	1,300 J	17,000 J
4-Isopropyltoluene	<0.0054	19,000	<0.005	<0.0053	18,000 J
4-Methyl-2-pentanone	<0.011	<0.500	<0.010	<0.011	<0.010
Naphthalene	<0.0054	44,000	0.082	0.170	21,000
n-Propylbenzene	<0.0054	36,000	0.045	2,300 J	74,000
Toluene ⁽²⁾	<0.0054	52,000	<0.005	1,000 J	230,000
1,2,4-Trimethylbenzene	<0.0054	160,000	0.110	12,000	590,000
1,3,5-Trimethylbenzene	<0.0054	78,000	0.042	3,700 J	99,000
m,p-Xylenes	<0.0054	120,000	0.008	230,000	230,000
o-Xylene	<0.0054	45,000	<0.005	73,000	100,000
Total Xylenes ⁽²⁾	<0.0054	165,000	0.008	303,000	330,000
Total BTEX	<0.0216	250,500	0.008	312	599.11
					384,059

⁽¹⁾ - All analytical results in mg/kg

⁽²⁾ - NMOCD Soil Remediation Action Levels for Unsaturated Contaminated Soils, based on Hazard Ranking >19^{(3),(4)}

Benzene	10 mg/kg
Total BTEX	50 mg/kg
TPH	100 mg/kg

⁽³⁾ - Hazard Ranking determined at >19, based on groundwater occurrence at <50 feet

⁽⁴⁾ - from NMOCD Publication "Guidelines for Remediation of Leaks, Spills and Releases" (August 18, 1993) (www.emnrd.state.nm.us/IOCD)

Bold font indicates exceedance of Remediation Action Level

Table 2
Summary of Detected Constituents⁽¹⁾ in Groundwater
BJ Services - Hobbs (Fracmaster Facility), New Mexico

Location	ES (East Side)	NMWQCC Groundwater Standard ⁽²⁾
TPH-D	2.3	-
TPH-G	11	-
SVOCs		
2-Methylnaphthalene ⁽³⁾	0.013	0.03
2-Methylphenol	0.130	-
3 & 4-Methylphenol	0.018	-
Naphthalene ⁽³⁾	0.046	0.03
Phenanthrene	<0.005	-
VOCs		
Benzene	0.390	0.01
n-Butylbenzene	<0.005	-
sec-Butylbenzene	0.015	-
Carbon disulfide	<0.005	-
4-Chlorotoluene	<0.005	-
Ethylbenzene	0.370	0.75
Isopropylbenzene	0.180	-
4-Isopropyltoluene	<0.005	-
4-Methyl-2-pentanone	0.023	-
Naphthalene ⁽³⁾	0.200	0.03
n-Propylbenzene	0.260	-
Toluene	0.046	0.75
1,2,4-Trimethylbenzene	0.670	-
1,3,5-Trimethylbenzene	0.210	-
m,p-Xylenes	0.770	-
o-Xylene	0.400	-
Total Xylenes	1.170	0.62
Metals		
Arsenic (dissolved)	0.0239	0.1
Arsenic (total)	0.0271	
Barium (dissolved)	0.842	1.0
Barium (total)	0.906	
Cadmium (dissolved)	<0.003	0.01
Cadmium (total)	<0.003	
Chromium (dissolved)	0.016	0.05
Chromium (total)	0.0805	
Lead (dissolved)	<0.005	0.05
Lead (total)	<0.005	
Mercury (dissolved)	<0.0002	0.002
Mercury (total)	<0.0002	
Selenium (dissolved)	<0.005	0.005
Selenium (total)	<0.005	
Silver (dissolved)	<0.005	0.005
Silver (total)	<0.005	

(1) - All analytical results and standards in mg/L

(2) - from NMOCD Publication "Guidelines for Remediation of Leaks, Spills and Releases" (August 18, 1993) (www.emnrd.state.nm.us/OCD)

(3) - Standard applies to PAHs: naphthalene plus monomethylnaphthalenes

Bold font indicates exceedance of Groundwater Standard

APPENDICES

APPENDIX A

Soil Boring Logs: Soil Borings MS, ES, NS, SS, WS

Soil Boring:

MSProject Name: **BJ Services Company, U.S.A. - Fracmaster Facility**Project Number: **128125**Sheet **2** of **2**

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
34		SW		SAND (SW); Black; dry; fine grained sand; contains 1/4" to 1/2" diameter nodules of very fine lithified sandstone nodules, hydrocarbon odor	1931		2		
36									
38									
40					1679		2		
42									
44				SAA, moist, hydrocarbon odor	1256		2		
46	▼			SAA, dark gray, wet					
48									Sampled MS-45-46'
									Boring was plugged with a bentonite-cement grout.

ES

Project Number: 128125

Sheet 1 of 2

Project Location: Hobbs, NM		Logged By: B.Camacho	Approved: L.Teague
Drilling Contractor: Geoprojects International		Date Started: 7/12/05	Date Finished: 7/12/05
Drilling Equipment: CME-75	Driller: Richard	Total Boring Depth: (feet) 56.0	Depth to Static Water: (feet)
Drilling Method: Hollow Stem Auger	Borehole Diameter: 8"	TOC Elevation:	Ground Elevation:
Sampling Method: Split Spoon		Diameter and Type of Well Casing: 2" Schedule 40 PVC	
Comments: Temporary Well Installed		Slot Size: 0.010	Filter Material: 20/40
		Development Method: Bailer	

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
0		SP	X X X X	Fill - cobbles, gravel, sand, silt, etc.	0	X	2		Temporary well was installed
2				SAND (SP); Dark brown; moist; fine to medium grained sand; contains 1/2" to 2" diameter nodules of medium grained lithified sandstone.		X			
4		SM		SILTY SAND (SM); Tan; slightly moist; contains 1/4" to 1/2" diameter of lithified siltstone nodules	5.4	X	2		
6						X			
8						X			
10		SP		SAND (SP); Black; dry; medium to coarse grained sand; stained, strong hydrocarbon odor	625	X	2		
12						X			
14				SAA, moist	1329	X	2		
16						X			Sampled ES-14-15'
18						X			
20					1201	X	2		
22			X X X X	SILTSTONE; Black; dry; hydrocarbon odor		X			
24		SP		SAND (SP); Black; slightly moist; fine to medium grained sand; hydrocarbon odor	1028	X	2		No backfill, just PVC riser pipe
26						X			
28						X			
30		SM		SILTY SAND (SM); Black; dry; fine grained sand; contains 1/2" diameter nodules of very fine lithified sandstone nodules, hydrocarbon odor	1013	X	2		
32						X			

ES

Sheet 2 of 2

Project Name: **BJ Services Company, U.S.A. - Fracmaster Facility**Project Number: **128125**Sheet **1** of **2**

Project Location: Hobbs, NM		Logged By: B.Camacho	Approved: L.Teague
Drilling Contractor: Geoprojects International		Date Started: 7/13/05	Date Finished: 7/13/05
Drilling Equipment: CME-75	Driller: Richard	Total Boring Depth: (feet) 36.0	Depth to Static Water: (feet)
Drilling Method: Hollow Stem Auger	Borehole Diameter: 8"	TOC Elevation:	Ground Elevation:
Sampling Method: Split Spoon		Diameter and Type of Well Casing:	
Comments:		Slot Size:	Filter Material:
		Development Method:	

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
2		SP	XXXX	Fill - cobbles, gravel, sand, silt, etc. SAND (SP); Tan; dry; fine to medium grained sand; contains caliche rock	0	X	2		
4		SM		SILTY SAND (SM); Tan; slightly moist; contains 1/2" diameter of lithified siltstone nodules	0	X	2		
6									
8									
10					0	X	2		
12									
14		SP		SAND (SP); Tan; moist; medium to coarse grained sand; contains >1/2" diameter of medium grained sandstone nodules	0	X	2		
16									
18									
20					0	X	2		
22				SANDSTONE; Pinkish brown; dry; >1" diameter nodules of very fine lithified sandstone					
24		SP		SAND (SP); Dark gray; moist; fine to medium grained sand; contains <1/4" diameter of fine grained sandstone nodules	47	X	2		Sampled NS-24-25'
26									
28									
30					9.3	X	2		
32		SW		SAND (SW); Light gray; slightly moist; fine grained sand; contains 1/4" to 1/2" diameter nodules of very					

Soil Boring:

NSProject Name: **BJ Services Company, U.S.A. - Fracmaster Facility**Project Number: **128125**Sheet **2** of **2**

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
34				fine lithified sandstone nodules	7.1		2		Sampled NS-34-35'
36									Boring was plugged with a bentonite-cement grout.

Soil Boring:

SS

Project Name: **BJ Services Company, U.S.A. - Fracmaster Facility**Project Number: **128125**Sheet **1** of **1**

Project Location: Hobbs, NM		Logged By: B.Camacho	Approved: L.Teague
Drilling Contractor: Gemini Technical Services		Date Started: 7/14/05	Date Finished: 7/13/05
Drilling Equipment: CME-75	Driller: Richard	Total Boring Depth: (feet) 31.0	Depth to Static Water: (feet)
Drilling Method: Hollow Stem Auger	Borehole Diameter: 8"	TOC Elevation:	Ground Elevation:
Sampling Method: Split Spoon		Diameter and Type of Well Casing:	
Comments:		Slot Size:	Filter Material:
		Development Method:	

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
			XXXX	Fill - cobbles, gravel, sand, silt, etc.	0	X	2		
2		SP		SAND (SP); Tan; dry; fine to medium grained sand	0	X	2		
4		SM		SILTY SAND (SM); Tan; slightly moist; contains 1/4" diameter of lithified siltstone nodules	0	X	2		
6									
8									
10		SP		SAND (SP); Pinkish brown; moist; medium to coarse grained sand; contains >1/2" diameter of medium grained sandstone nodules	0	X	2		
12									
14				SANDSTONE; Pinkish brown; dry; >1" diameter nodules of very fine lithified sandstone	0	X	2		
16		SP		SAND (SP); Tan; moist; fine to medium grained sand; contains 1/4" to 1/2" diameter of fine grained sandstone nodules	0	X	2		
18									
20		SW		SAND (SW); Pinkish brown; slightly moist; fine grained sand; contains <1/4" diameter nodules of very fine lithified sandstone nodules	0	X	2		
22									
24				SAA, dry	0	X	2		Sampled SS-30-31'
26									
28									
30				SAA, moist	0	X	2		Boring was plugged with a bentonite-cement grout.

WS

Sheet 1 of 2

Project Location: Hobbs, NM		Logged By: B.Camacho		Approved: L.Teague	
Drilling Contractor: Geoprojects International		Date Started: 7/13/05		Date Finished: 7/13/05	
Drilling Equipment: CME-75	Driller: Richard	Total Boring Depth: (feet) 51.0		Depth to Static Water: (feet)	
Drilling Method: Hollow Stem Auger	Borehole Diameter: 8"	TOC Elevation:		Ground Elevation:	
Sampling Method: Split Spoon		Diameter and Type of Well Casing:			
Comments:		Slot Size:		Filter Material:	
		Development Method:			

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
2		SP	XXXX	Fill - cobbles, gravel, sand, silt, etc. SAND (SP); Tan; dry; fine to medium grained sand; contains caliche rock	0	X	2		
4				SAA, Pinkish brown, slightly moist	0	X	2		
6		SM		SILTY SAND (SM); Dark brown; slightly moist; contains 1/2" diameter of lithified siltstone nodules		X			
10		SP		SAND (SP); Pinkish brown; moist; medium to coarse grained sand; contains >1/2" diameter of medium grained sandstone nodules	0	X	2		
14				SAA, Dark brown, dry	0	X	2		
16				SANDSTONE; Light gray; dry; >1" diameter nodules of very fine lithified sandstone		X			
20		SP		SAND (SP); Tan; moist; medium to coarse grained sand	4582	X	2		Sampled WS-19-20'
24				SAA, black stained, strong hydrocarbon odor	2528	X	2		
30		SM		SILTY SAND (SM); Dark gray; dry; fine grained sand; hydrocarbon odor	1805	X	2		

WS

Sheet 2 of 2

Depth (feet)	Depth to Water	USC Soil Type	Lithology	Description	PID Readings	Sampled Interval	Recovery (feet)	Sample ID	Soil Boring Remarks
34		SW		SAND (SW); Black; dry; fine grained sand; contains 1/4" to 1/2" diameter nodules of very fine lithified sandstone nodules, hydrocarbon odor	2398		2		
36									
38									
40				SAA, dark gray, moist	1024		2		
42									
44					1247		2		
46									
48									
50				SAA, wet	876		2		Sampled WS-48-49'
									Boring was plugged with a bentonite-cement grout.

APPENDIX B

Laboratory Analytical Reports



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Brown & Caldwell

Certificate of Analysis Number:

05070563

Report To: Brown & Caldwell

Rick Rexroad

1415 Louisiana

Suite 2500

Houston

TX

77002-

ph (713) 759-0999

fax: (713) 308-3886

Project Name: BJ Services Fracmaster 128125

Site: Hobbs, New Mexico

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported:

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
ES-14-15'	05070563-01	Soil	7/12/2005 5:00:00 PM	7/14/2005 9:30:00 AM	232564	☐
ES-47-48'	05070563-02	Soil	7/12/2005 5:30:00 PM	7/14/2005 9:30:00 AM	232564	☒
FB-7-12-05	05070563-03	Water	7/12/2005 7:00:00 PM	7/14/2005 9:30:00 AM	232564	☐
TB-7-12-05	05070563-04	Water	7/12/2005	7/14/2005 9:30:00 AM	232564	☐
ESW	05070563-05	Water	7/13/2005 9:30:00 AM	7/14/2005 9:30:00 AM	232564	☒
ESW	05070563-05	Water	7/13/2005 9:30:00 AM	7/14/2005 9:30:00 AM	232564	☐

Sonia West

7/22/2005

Sonia West

Date

Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15' Collected: 07/12/2005 17:00 SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/Kg-dry	
Diesel Range Organics (C10-C28)	46000		9300	50	07/20/05 17:07	NW	2866475
Surr: n-Pentacosane	D	*	% 20-154	50	07/20/05 17:07	NW	2866475

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/20/2005 13:13	T L	30.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/Kg-dry	
Gasoline Range Organics	3700		120	1000	07/15/05 15:24	JVWV	2860773
Surr: 1,4-Difluorobenzene	141		% 63-142	1000	07/15/05 15:24	JVWV	2860773
Surr: 4-Bromofluorobenzene	1070 MI	*	% 50-159	1000	07/15/05 15:24	JVWV	2860773

MOISTURE - ASTM				MCL	D2216	Units: %	
Percent Moisture	19		0	1	07/19/05 17:59	E_S	2866126

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15' Collected: 07/12/2005 17:00 SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C				MCL	SW8270C	Units: ug/kg-dry	
1,2,4-Trichlorobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
1,2-Dichlorobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
1,2-Diphenylhydrazine	ND		24000	2	07/19/05 16:41	GQ	2865145
1,3-Dichlorobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
1,4-Dichlorobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
2,4,5-Trichlorophenol	ND		59000	2	07/19/05 16:41	GQ	2865145
2,4,6-Trichlorophenol	ND		24000	2	07/19/05 16:41	GQ	2865145
2,4-Dichlorophenol	ND		24000	2	07/19/05 16:41	GQ	2865145
2,4-Dimethylphenol	ND		24000	2	07/19/05 16:41	GQ	2865145
2,4-Dinitrophenol	ND		59000	2	07/19/05 16:41	GQ	2865145
2,4-Dinitrotoluene	ND		59000	2	07/19/05 16:41	GQ	2865145
2,6-Dinitrotoluene	ND		24000	2	07/19/05 16:41	GQ	2865145
2-Chloronaphthalene	ND		24000	2	07/19/05 16:41	GQ	2865145
2-Chlorophenol	ND		24000	2	07/19/05 16:41	GQ	2865145
2-Methylnaphthalene	200000		49000	4	07/19/05 22:44	GQ	2865146
2-Nitroaniline	ND		59000	2	07/19/05 16:41	GQ	2865145
2-Nitrophenol	ND		24000	2	07/19/05 16:41	GQ	2865145
3,3'-Dichlorobenzidine	ND		24000	2	07/19/05 16:41	GQ	2865145
3-Nitroaniline	ND		59000	2	07/19/05 16:41	GQ	2865145
4,6-Dinitro-2-methylphenol	ND		59000	2	07/19/05 16:41	GQ	2865145
4-Bromophenyl phenyl ether	ND		24000	2	07/19/05 16:41	GQ	2865145
4-Chloro-3-methylphenol	ND		24000	2	07/19/05 16:41	GQ	2865145
4-Chloroaniline	ND		24000	2	07/19/05 16:41	GQ	2865145
4-Chlorophenyl phenyl ether	ND		24000	2	07/19/05 16:41	GQ	2865145
4-Nitroaniline	ND		59000	2	07/19/05 16:41	GQ	2865145
4-Nitrophenol	ND		59000	2	07/19/05 16:41	GQ	2865145
Acenaphthene	ND		24000	2	07/19/05 16:41	GQ	2865145
Acenaphthylene	ND		24000	2	07/19/05 16:41	GQ	2865145
Aniline	ND		24000	2	07/19/05 16:41	GQ	2865145
Anthracene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benz(a)anthracene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benzo(a)pyrene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benzo(b)fluoranthene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benzo(g,h,i)perylene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benzo(k)fluoranthene	ND		24000	2	07/19/05 16:41	GQ	2865145
Benzoic acid	ND		120000	2	07/19/05 16:41	GQ	2865145
Benzyl alcohol	ND		24000	2	07/19/05 16:41	GQ	2865145
Bis(2-chloroethoxy)methane	ND		24000	2	07/19/05 16:41	GQ	2865145
Bis(2-chloroethyl)ether	ND		24000	2	07/19/05 16:41	GQ	2865145
Bis(2-chloroisopropyl)ether	ND		24000	2	07/19/05 16:41	GQ	2865145

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15'

Collected: 07/12/2005 17:00

SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-ethylhexyl)phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Butyl benzyl phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Carbazole	ND		24000	2	07/19/05 16:41	GQ	2865145
Chrysene	ND		24000	2	07/19/05 16:41	GQ	2865145
Dibenz(a,h)anthracene	ND		24000	2	07/19/05 16:41	GQ	2865145
Dibenzofuran	ND		24000	2	07/19/05 16:41	GQ	2865145
Diethyl phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Dimethyl phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Di-n-butyl phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Di-n-octyl phthalate	ND		24000	2	07/19/05 16:41	GQ	2865145
Fluoranthene	ND		24000	2	07/19/05 16:41	GQ	2865145
Fluorene	ND		24000	2	07/19/05 16:41	GQ	2865145
Hexachlorobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
Hexachlorobutadiene	ND		24000	2	07/19/05 16:41	GQ	2865145
Hexachlorocyclopentadiene	ND		24000	2	07/19/05 16:41	GQ	2865145
Hexachloroethane	ND		24000	2	07/19/05 16:41	GQ	2865145
Indeno(1,2,3-cd)pyrene	ND		24000	2	07/19/05 16:41	GQ	2865145
Isophorone	ND		24000	2	07/19/05 16:41	GQ	2865145
Naphthalene	70000		24000	2	07/19/05 16:41	GQ	2865145
Nitrobenzene	ND		24000	2	07/19/05 16:41	GQ	2865145
N-Nitrosodi-n-propylamine	ND		24000	2	07/19/05 16:41	GQ	2865145
N-Nitrosodiphenylamine	ND		24000	2	07/19/05 16:41	GQ	2865145
Pentachlorophenol	ND		59000	2	07/19/05 16:41	GQ	2865145
Phenanthrene	37000		24000	2	07/19/05 16:41	GQ	2865145
Phenol	ND		24000	2	07/19/05 16:41	GQ	2865145
Pyrene	ND		24000	2	07/19/05 16:41	GQ	2865145
Pyridine	ND		24000	2	07/19/05 16:41	GQ	2865145
2-Methylphenol	ND		24000	2	07/19/05 16:41	GQ	2865145
3 & 4-Methylphenol	ND		24000	2	07/19/05 16:41	GQ	2865145
Surr: 2,4,6-Tribromophenol	50.7	%	19-135	4	07/19/05 22:44	GQ	2865146
Surr: 2,4,6-Tribromophenol	46.7	%	19-135	2	07/19/05 16:41	GQ	2865145
Surr: 2-Fluorobiphenyl	47.1	%	15-14C	4	07/19/05 22:44	GQ	2865146
Surr: 2-Fluorobiphenyl	45.1	%	15-14C	2	07/19/05 16:41	GQ	2865145
Surr: 2-Fluorophenol	40.0	%	15-122	2	07/19/05 16:41	GQ	2865145
Surr: 2-Fluorophenol	40.0	%	15-122	4	07/19/05 22:44	GQ	2865146
Surr: Nitrobenzene-d5	60.8	%	10-134	2	07/19/05 16:41	GQ	2865145
Surr: Nitrobenzene-d5	60.8	%	10-134	4	07/19/05 22:44	GQ	2865146
Surr: Phenol-d5	44.0	%	10-123	4	07/19/05 22:44	GQ	2865146
Surr: Phenol-d5	44.0	%	10-123	2	07/19/05 16:41	GQ	2865145
Surr: Terphenyl-d14	49.0	%	18-166	4	07/19/05 22:44	GQ	2865146
Surr: Terphenyl-d14	51.0	%	18-166	2	07/19/05 16:41	GQ	2865145

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15'

Collected: 07/12/2005 17:00

SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. #

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/15/2005 14:03	T L	30.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

05070563 Page 5

7/22/2005 2:25:35 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15'

Collected: 07/12/2005 17:00

SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/kg-dry	
1,1,1,2-Tetrachloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,1,1-Trichloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,1,2,2-Tetrachloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,1,2-Trichloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,1-Dichloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,1-Dichloroethene	ND		310	50	07/20/05 17:48	C_V	2867376
1,1-Dichloropropene	ND		310	50	07/20/05 17:48	C_V	2867376
1,2,3-Trichlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
1,2,3-Trichloropropane	ND		310	50	07/20/05 17:48	C_V	2867376
1,2,4-Trichlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
1,2,4-Trimethylbenzene	200000		12000	2000	07/21/05 19:09	C_V	2868065
1,2-Dibromo-3-chloropropane	ND		310	50	07/20/05 17:48	C_V	2867376
1,2-Dibromoethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,2-Dichlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
1,2-Dichloroethane	ND		310	50	07/20/05 17:48	C_V	2867376
1,2-Dichloropropane	ND		310	50	07/20/05 17:48	C_V	2867376
1,3,5-Trimethylbenzene	96000		12000	2000	07/21/05 19:09	C_V	2868065
1,3-Dichlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
1,3-Dichloropropane	ND		310	50	07/20/05 17:48	C_V	2867376
1,4-Dichlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
2,2-Dichloropropane	ND		310	50	07/20/05 17:48	C_V	2867376
2-Butanone	ND		1200	50	07/20/05 17:48	C_V	2867376
2-Chloroethyl vinyl ether	ND		620	50	07/20/05 17:48	C_V	2867376
2-Chlorotoluene	ND		310	50	07/20/05 17:48	C_V	2867376
2-Hexanone	ND		620	50	07/20/05 17:48	C_V	2867376
4-Chlorotoluene	6000		310	50	07/20/05 17:48	C_V	2867376
4-Isopropyltoluene	23000		12000	2000	07/21/05 19:09	C_V	2868065
4-Methyl-2-pentanone	ND		620	50	07/20/05 17:48	C_V	2867376
Acetone	ND		6200	50	07/20/05 17:48	C_V	2867376
Acrylonitrile	ND		3100	50	07/20/05 17:48	C_V	2867376
Benzene	1900		310	50	07/20/05 17:48	C_V	2867376
Bromobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
Bromochloromethane	ND		310	50	07/20/05 17:48	C_V	2867376
Bromodichloromethane	ND		310	50	07/20/05 17:48	C_V	2867376
Bromoform	ND		310	50	07/20/05 17:48	C_V	2867376
Bromomethane	ND		620	50	07/20/05 17:48	C_V	2867376
Carbon disulfide	ND		310	50	07/20/05 17:48	C_V	2867376
Carbon tetrachloride	ND		310	50	07/20/05 17:48	C_V	2867376
Chlorobenzene	ND		310	50	07/20/05 17:48	C_V	2867376
Chloroethane	ND		620	50	07/20/05 17:48	C_V	2867376

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ES-14-15

Collected: 07/12/2005 17:00

SPL Sample ID: 05070563-01

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		310	50	07/20/05 17:48	C_V	2867376
Chloromethane	ND		620	50	07/20/05 17:48	C_V	2867376
Dibromochloromethane	ND		310	50	07/20/05 17:48	C_V	2867376
Dibromomethane	ND		310	50	07/20/05 17:48	C_V	2867376
Dichlorodifluoromethane	ND		620	50	07/20/05 17:48	C_V	2867376
Ethylbenzene	40000		12000	2000	07/21/05 19:09	C_V	2868065
Hexachlorobutadiene	ND		310	50	07/20/05 17:48	C_V	2867376
Isopropylbenzene	26000		12000	2000	07/21/05 19:09	C_V	2868065
Methyl tert-butyl ether	ND		310	50	07/20/05 17:48	C_V	2867376
Methylene chloride	ND		310	50	07/20/05 17:48	C_V	2867376
Naphthalene	54000		12000	2000	07/21/05 19:09	C_V	2868065
n-Butylbenzene	37000		12000	2000	07/21/05 19:09	C_V	2868065
n-Propylbenzene	44000		12000	2000	07/21/05 19:09	C_V	2868065
sec-Butylbenzene	25000		12000	2000	07/21/05 19:09	C_V	2868065
Styrene	ND		310	50	07/20/05 17:48	C_V	2867376
tert-Butylbenzene	ND		310	50	07/20/05 17:48	C_V	2867376
Tetrachloroethene	ND		310	50	07/20/05 17:48	C_V	2867376
Toluene	64000		12000	2000	07/21/05 19:09	C_V	2868065
Trichloroethene	ND		310	50	07/20/05 17:48	C_V	2867376
Trichlorofluoromethane	ND		310	50	07/20/05 17:48	C_V	2867376
Vinyl acetate	ND		620	50	07/20/05 17:48	C_V	2867376
Vinyl chloride	ND		620	50	07/20/05 17:48	C_V	2867376
cis-1,2-Dichloroethene	ND		310	50	07/20/05 17:48	C_V	2867376
cis-1,3-Dichloropropene	ND		310	50	07/20/05 17:48	C_V	2867376
m,p-Xylene	150000		12000	2000	07/21/05 19:09	C_V	2868065
o-Xylene	56000		12000	2000	07/21/05 19:09	C_V	2868065
trans-1,2-Dichloroethene	ND		310	50	07/20/05 17:48	C_V	2867376
trans-1,3-Dichloropropene	ND		310	50	07/20/05 17:48	C_V	2867376
Xylenes, Total	206000		12300	2000	07/21/05 19:09	C_V	2868065
1,2-Dichloroethene (total)	ND		310	50	07/20/05 17:48	C_V	2867376
Surr: 1,2-Dichloroethane-d4	92.0		% 64-13C	50	07/20/05 17:48	C_V	2867376
Surr: 1,2-Dichloroethane-d4	91.0		% 64-13C	2000	07/21/05 19:09	C_V	2868065
Surr: 4-Bromofluorobenzene	92.0		% 62-13C	50	07/20/05 17:48	C_V	2867376
Surr: 4-Bromofluorobenzene	100		% 62-13C	2000	07/21/05 19:09	C_V	2868065
Surr: Toluene-d8	108		% 70-14C	50	07/20/05 17:48	C_V	2867376
Surr: Toluene-d8	97.0		% 70-14C	2000	07/21/05 19:09	C_V	2868065

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-12-05

Collected: 07/12/2005 19:00

SPL Sample ID: 05070563-03

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
1,1,1,2-Tetrachloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,1,1-Trichloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,1,2,2-Tetrachloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,1,2-Trichloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,1-Dichloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,1-Dichloroethene	ND		5	1	07/16/05 6:53	LT	2862660
1,1-Dichloropropene	ND		5	1	07/16/05 6:53	LT	2862660
1,2,3-Trichlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,2,3-Trichloropropane	ND		5	1	07/16/05 6:53	LT	2862660
1,2,4-Trichlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,2,4-Trimethylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dibromo-3-chloropropane	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dibromoethane	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dichlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dichloroethane	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dichloropropane	ND		5	1	07/16/05 6:53	LT	2862660
1,3,5-Trimethylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,3-Dichlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
1,3-Dichloropropane	ND		5	1	07/16/05 6:53	LT	2862660
1,4-Dichlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
2,2-Dichloropropane	ND		5	1	07/16/05 6:53	LT	2862660
2-Butanone	ND		20	1	07/16/05 6:53	LT	2862660
2-Chloroethyl vinyl ether	ND		10	1	07/16/05 6:53	LT	2862660
2-Chlorotoluene	ND		5	1	07/16/05 6:53	LT	2862660
2-Hexanone	ND		10	1	07/16/05 6:53	LT	2862660
4-Chlorotoluene	ND		5	1	07/16/05 6:53	LT	2862660
4-Isopropyltoluene	ND		5	1	07/16/05 6:53	LT	2862660
4-Methyl-2-pentanone	ND		10	1	07/16/05 6:53	LT	2862660
Acetone	ND		100	1	07/16/05 6:53	LT	2862660
Acrylonitrile	ND		50	1	07/16/05 6:53	LT	2862660
Benzene	ND		5	1	07/16/05 6:53	LT	2862660
Bromobenzene	ND		5	1	07/16/05 6:53	LT	2862660
Bromochloromethane	ND		5	1	07/16/05 6:53	LT	2862660
Bromodichloromethane	ND		5	1	07/16/05 6:53	LT	2862660
Bromoform	ND		5	1	07/16/05 6:53	LT	2862660
Bromomethane	ND		10	1	07/16/05 6:53	LT	2862660
Carbon disulfide	ND		5	1	07/16/05 6:53	LT	2862660
Carbon tetrachloride	ND		5	1	07/16/05 6:53	LT	2862660
Chlorobenzene	ND		5	1	07/16/05 6:53	LT	2862660
Chloroethane	ND		10	1	07/16/05 6:53	LT	2862660

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-12-05

Collected: 07/12/2005 19:00

SPL Sample ID: 05070563-03

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		5	1	07/16/05 6:53	LT	2862660
Chloromethane	ND		10	1	07/16/05 6:53	LT	2862660
Dibromochloromethane	ND		5	1	07/16/05 6:53	LT	2862660
Dibromomethane	ND		5	1	07/16/05 6:53	LT	2862660
Dichlorodifluoromethane	ND		10	1	07/16/05 6:53	LT	2862660
Ethylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
Hexachlorobutadiene	ND		5	1	07/16/05 6:53	LT	2862660
Isopropylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
Methyl tert-butyl ether	ND		5	1	07/16/05 6:53	LT	2862660
Methylene chloride	ND		5	1	07/16/05 6:53	LT	2862660
Naphthalene	ND		5	1	07/16/05 6:53	LT	2862660
n-Butylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
n-Propylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
sec-Butylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
Styrene	ND		5	1	07/16/05 6:53	LT	2862660
tert-Butylbenzene	ND		5	1	07/16/05 6:53	LT	2862660
Tetrachloroethene	ND		5	1	07/16/05 6:53	LT	2862660
Toluene	ND		5	1	07/16/05 6:53	LT	2862660
Trichloroethene	ND		5	1	07/16/05 6:53	LT	2862660
Trichlorofluoromethane	ND		5	1	07/16/05 6:53	LT	2862660
Vinyl acetate	ND		10	1	07/16/05 6:53	LT	2862660
Vinyl chloride	ND		10	1	07/16/05 6:53	LT	2862660
cis-1,2-Dichloroethene	ND		5	1	07/16/05 6:53	LT	2862660
cis-1,3-Dichloropropene	ND		5	1	07/16/05 6:53	LT	2862660
m,p-Xylene	ND		5	1	07/16/05 6:53	LT	2862660
o-Xylene	ND		5	1	07/16/05 6:53	LT	2862660
trans-1,2-Dichloroethene	ND		5	1	07/16/05 6:53	LT	2862660
trans-1,3-Dichloropropene	ND		5	1	07/16/05 6:53	LT	2862660
1,2-Dichloroethene (total)	ND		5	1	07/16/05 6:53	LT	2862660
Xylenes, Total	ND		5	1	07/16/05 6:53	LT	2862660
Surr: 1,2-Dichloroethane-d4	98.0		% 62-13C	1	07/16/05 6:53	LT	2862660
Surr: 4-Bromofluorobenzene	90.0		% 70-13C	1	07/16/05 6:53	LT	2862660
Surr: Toluene-d8	104		% 74-122	1	07/16/05 6:53	LT	2862660

Qualifiers: ND/U - Not Detected at the Reporting Limit
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* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-12-05

Collected: 07/12/2005 0:00

SPL Sample ID: 05070563-04

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/L	
1,1,1,2-Tetrachloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,1,1-Trichloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,1,2,2-Tetrachloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,1,2-Trichloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,1-Dichloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,1-Dichloroethene	ND		5	1	07/16/05 6:27	LT	2862659
1,1-Dichloropropene	ND		5	1	07/16/05 6:27	LT	2862659
1,2,3-Trichlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,2,3-Trichloropropane	ND		5	1	07/16/05 6:27	LT	2862659
1,2,4-Trichlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,2,4-Trimethylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dibromo-3-chloropropane	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dibromoethane	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dichlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dichloroethane	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dichloropropane	ND		5	1	07/16/05 6:27	LT	2862659
1,3,5-Trimethylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,3-Dichlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
1,3-Dichloropropane	ND		5	1	07/16/05 6:27	LT	2862659
1,4-Dichlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
2,2-Dichloropropane	ND		5	1	07/16/05 6:27	LT	2862659
2-Butanone	ND		20	1	07/16/05 6:27	LT	2862659
2-Chloroethyl vinyl ether	ND		10	1	07/16/05 6:27	LT	2862659
2-Chlorotoluene	ND		5	1	07/16/05 6:27	LT	2862659
2-Hexanone	ND		10	1	07/16/05 6:27	LT	2862659
4-Chlorotoluene	ND		5	1	07/16/05 6:27	LT	2862659
4-Isopropyltoluene	ND		5	1	07/16/05 6:27	LT	2862659
4-Methyl-2-pentanone	ND		10	1	07/16/05 6:27	LT	2862659
Acetone	ND		100	1	07/16/05 6:27	LT	2862659
Acrylonitrile	ND		50	1	07/16/05 6:27	LT	2862659
Benzene	ND		5	1	07/16/05 6:27	LT	2862659
Bromobenzene	ND		5	1	07/16/05 6:27	LT	2862659
Bromochloromethane	ND		5	1	07/16/05 6:27	LT	2862659
Bromodichloromethane	ND		5	1	07/16/05 6:27	LT	2862659
Bromoform	ND		5	1	07/16/05 6:27	LT	2862659
Bromomethane	ND		10	1	07/16/05 6:27	LT	2862659
Carbon disulfide	ND		5	1	07/16/05 6:27	LT	2862659
Carbon tetrachloride	ND		5	1	07/16/05 6:27	LT	2862659
Chlorobenzene	ND		5	1	07/16/05 6:27	LT	2862659
Chloroethane	ND		10	1	07/16/05 6:27	LT	2862659

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
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MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-12-05

Collected: 07/12/2005 0:00

SPL Sample ID: 05070563-04

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		5	1	07/16/05 6:27	LT	2862659
Chloromethane	ND		10	1	07/16/05 6:27	LT	2862659
Dibromochloromethane	ND		5	1	07/16/05 6:27	LT	2862659
Dibromomethane	ND		5	1	07/16/05 6:27	LT	2862659
Dichlorodifluoromethane	ND		10	1	07/16/05 6:27	LT	2862659
Ethylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
Hexachlorobutadiene	ND		5	1	07/16/05 6:27	LT	2862659
Isopropylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
Methyl tert-butyl ether	ND		5	1	07/16/05 6:27	LT	2862659
Methylene chloride	ND		5	1	07/16/05 6:27	LT	2862659
Naphthalene	ND		5	1	07/16/05 6:27	LT	2862659
n-Butylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
n-Propylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
sec-Butylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
Styrene	ND		5	1	07/16/05 6:27	LT	2862659
tert-Butylbenzene	ND		5	1	07/16/05 6:27	LT	2862659
Tetrachloroethene	ND		5	1	07/16/05 6:27	LT	2862659
Toluene	ND		5	1	07/16/05 6:27	LT	2862659
Trichloroethene	ND		5	1	07/16/05 6:27	LT	2862659
Trichlorofluoromethane	ND		5	1	07/16/05 6:27	LT	2862659
Vinyl acetate	ND		10	1	07/16/05 6:27	LT	2862659
Vinyl chloride	ND		10	1	07/16/05 6:27	LT	2862659
cis-1,2-Dichloroethene	ND		5	1	07/16/05 6:27	LT	2862659
cis-1,3-Dichloropropene	ND		5	1	07/16/05 6:27	LT	2862659
m,p-Xylene	ND		5	1	07/16/05 6:27	LT	2862659
o-Xylene	ND		5	1	07/16/05 6:27	LT	2862659
trans-1,2-Dichloroethene	ND		5	1	07/16/05 6:27	LT	2862659
trans-1,3-Dichloropropene	ND		5	1	07/16/05 6:27	LT	2862659
1,2-Dichloroethene (total)	ND		5	1	07/16/05 6:27	LT	2862659
Xylenes, Total	ND		5	1	07/16/05 6:27	LT	2862659
Surr: 1,2-Dichloroethane-d4	98.0		% 62-13C	1	07/16/05 6:27	LT	2862659
Surr: 4-Bromofluorobenzene	80.0		% 70-13C	1	07/16/05 6:27	LT	2862659
Surr: Toluene-d8	100		% 74-122	1	07/16/05 6:27	LT	2862659

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW Collected: 07/13/2005 9:30 SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Diesel Range Organics (C10-C28)	2.3		1	1	07/19/05 13:55	NW	2865048
Surr: n-Pentacosane	66.4	%	39-142	1	07/19/05 13:55	NW	2865048

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/17/2005 14:34	K L	1.00

GASOLINE RANGE ORGANICS				MCL	SW8015B	Units: mg/L	
Gasoline Range Organics	11		2.5	25	07/19/05 15:28	DMN	2866429
Surr: 1,4-Difluorobenzene	104	%	60-155	25	07/19/05 15:28	DMN	2866429
Surr: 4-Bromofluorobenzene	149	%	50-158	25	07/19/05 15:28	DMN	2866429

MERCURY, TOTAL				MCL	SW7470A	Units: mg/L	
Mercury	ND		0.0002	1	07/18/05 12:54	A_H	2861962

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/18/2005 9:45	A H	1.00

METALS BY METHOD 6010B, TOTAL				MCL	SW6010B	Units: mg/L	
Arsenic	0.0271		0.005	1	07/18/05 18:55	NS	2863532
Barium	0.906		0.005	1	07/18/05 18:55	NS	2863532
Cadmium	ND		0.003	1	07/18/05 18:55	NS	2863532
Chromium	0.0805		0.005	1	07/18/05 18:55	NS	2863532
Lead	ND		0.005	1	07/18/05 18:55	NS	2863532
Selenium	ND		0.005	1	07/18/05 18:55	NS	2863532
Silver	ND		0.005	1	07/18/05 18:55	NS	2863532

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	07/18/2005 8:00	MV	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW Collected: 07/13/2005 9:30 SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			MCL	SW8270C	Units: ug/L		
1,2,4-Trichlorobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
1,2-Dichlorobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
1,2-Diphenylhydrazine	ND		10	1	07/20/05 19:17	E_R	2866700
1,3-Dichlorobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
1,4-Dichlorobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
2,4,5-Trichlorophenol	ND		10	1	07/20/05 19:17	E_R	2866700
2,4,6-Trichlorophenol	ND		5	1	07/20/05 19:17	E_R	2866700
2,4-Dichlorophenol	ND		5	1	07/20/05 19:17	E_R	2866700
2,4-Dimethylphenol	ND		5	1	07/20/05 19:17	E_R	2866700
2,4-Dinitrophenol	ND		25	1	07/20/05 19:17	E_R	2866700
2,4-Dinitrotoluene	ND		5	1	07/20/05 19:17	E_R	2866700
2,6-Dinitrotoluene	ND		5	1	07/20/05 19:17	E_R	2866700
2-Chloronaphthalene	ND		5	1	07/20/05 19:17	E_R	2866700
2-Chlorophenol	ND		5	1	07/20/05 19:17	E_R	2866700
2-Methylnaphthalene	13		5	1	07/20/05 19:17	E_R	2866700
2-Nitroaniline	ND		25	1	07/20/05 19:17	E_R	2866700
2-Nitrophenol	ND		5	1	07/20/05 19:17	E_R	2866700
3,3'-Dichlorobenzidine	ND		10	1	07/20/05 19:17	E_R	2866700
3-Nitroaniline	ND		25	1	07/20/05 19:17	E_R	2866700
4,6-Dinitro-2-methylphenol	ND		25	1	07/20/05 19:17	E_R	2866700
4-Bromophenyl phenyl ether	ND		5	1	07/20/05 19:17	E_R	2866700
4-Chloro-3-methylphenol	ND		5	1	07/20/05 19:17	E_R	2866700
4-Chloroaniline	ND		5	1	07/20/05 19:17	E_R	2866700
4-Chlorophenyl phenyl ether	ND		5	1	07/20/05 19:17	E_R	2866700
4-Nitroaniline	ND		25	1	07/20/05 19:17	E_R	2866700
4-Nitrophenol	ND		25	1	07/20/05 19:17	E_R	2866700
Acenaphthene	ND		5	1	07/20/05 19:17	E_R	2866700
Acenaphthylene	ND		5	1	07/20/05 19:17	E_R	2866700
Aniline	ND		5	1	07/20/05 19:17	E_R	2866700
Anthracene	ND		5	1	07/20/05 19:17	E_R	2866700
Benz(a)anthracene	ND		5	1	07/20/05 19:17	E_R	2866700
Benzo(a)pyrene	ND		5	1	07/20/05 19:17	E_R	2866700
Benzo(b)fluoranthene	ND		5	1	07/20/05 19:17	E_R	2866700
Benzo(g,h,i)perylene	ND		5	1	07/20/05 19:17	E_R	2866700
Benzo(k)fluoranthene	ND		5	1	07/20/05 19:17	E_R	2866700
Benzoic acid	ND		25	1	07/20/05 19:17	E_R	2866700
Benzyl alcohol	ND		5	1	07/20/05 19:17	E_R	2866700
Bis(2-chloroethoxy)methane	ND		5	1	07/20/05 19:17	E_R	2866700
Bis(2-chloroethyl)ether	ND		5	1	07/20/05 19:17	E_R	2866700
Bis(2-chloroisopropyl)ether	ND		5	1	07/20/05 19:17	E_R	2866700

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW Collected: 07/13/2005 9:30 SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-ethylhexyl)phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Butyl benzyl phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Carbazole	ND		5	1	07/20/05 19:17	E_R	2866700
Chrysene	ND		5	1	07/20/05 19:17	E_R	2866700
Dibenz(a,h)anthracene	ND		5	1	07/20/05 19:17	E_R	2866700
Dibenzofuran	ND		5	1	07/20/05 19:17	E_R	2866700
Diethyl phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Dimethyl phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Di-n-butyl phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Di-n-octyl phthalate	ND		5	1	07/20/05 19:17	E_R	2866700
Fluoranthene	ND		5	1	07/20/05 19:17	E_R	2866700
Fluorene	ND		5	1	07/20/05 19:17	E_R	2866700
Hexachlorobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
Hexachlorobutadiene	ND		5	1	07/20/05 19:17	E_R	2866700
Hexachlorocyclopentadiene	ND		5	1	07/20/05 19:17	E_R	2866700
Hexachloroethane	ND		5	1	07/20/05 19:17	E_R	2866700
Indeno(1,2,3-cd)pyrene	ND		5	1	07/20/05 19:17	E_R	2866700
Isophorone	ND		5	1	07/20/05 19:17	E_R	2866700
Naphthalene	46		5	1	07/20/05 19:17	E_R	2866700
Nitrobenzene	ND		5	1	07/20/05 19:17	E_R	2866700
N-Nitrosodi-n-propylamine	ND		5	1	07/20/05 19:17	E_R	2866700
N-Nitrosodiphenylamine	ND		5	1	07/20/05 19:17	E_R	2866700
Pentachlorophenol	ND		25	1	07/20/05 19:17	E_R	2866700
Phenanthrene	ND		5	1	07/20/05 19:17	E_R	2866700
Phenol	ND		5	1	07/20/05 19:17	E_R	2866700
Pyrene	ND		5	1	07/20/05 19:17	E_R	2866700
Pyridine	ND		5	1	07/20/05 19:17	E_R	2866700
2-Methylphenol	130		10	2	07/21/05 11:11	E_R	2866753
3 & 4-Methylphenol	18		5	1	07/20/05 19:17	E_R	2866700
Surr: 2,4,6-Tribromophenol	40.0	%	10-123	1	07/20/05 19:17	E_R	2866700
Surr: 2,4,6-Tribromophenol	40.0	%	10-123	2	07/21/05 11:11	E_R	2866753
Surr: 2-Fluorobiphenyl	34.0	%	23-116	1	07/20/05 19:17	E_R	2866700
Surr: 2-Fluorobiphenyl	36.0	%	23-116	2	07/21/05 11:11	E_R	2866753
Surr: 2-Fluorophenol	22.7	%	16-11C	2	07/21/05 11:11	E_R	2866753
Surr: 2-Fluorophenol	26.7	%	16-11C	1	07/20/05 19:17	E_R	2866700
Surr: Nitrobenzene-d5	30.0	%	21-114	2	07/21/05 11:11	E_R	2866753
Surr: Nitrobenzene-d5	30.0	%	21-114	1	07/20/05 19:17	E_R	2866700
Surr: Phenol-d5	30.7	%	10-11C	1	07/20/05 19:17	E_R	2866700
Surr: Phenol-d5	29.3	%	10-11C	2	07/21/05 11:11	E_R	2866753
Surr: Terphenyl-d14	40.0	%	22-141	1	07/20/05 19:17	E_R	2866700
Surr: Terphenyl-d14	42.0	%	22-141	2	07/21/05 11:11	E_R	2866753

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW Collected: 07/13/2005 9:30 SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. #

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/16/2005 13:49	K L	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW Collected: 07/13/2005 9:30 SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
1,1,1,2-Tetrachloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,1,1-Trichloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,1,2,2-Tetrachloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,1,2-Trichloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,1-Dichloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,1-Dichloroethene	ND		5	1	07/16/05 7:19	LT	2862661
1,1-Dichloropropene	ND		5	1	07/16/05 7:19	LT	2862661
1,2,3-Trichlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
1,2,3-Trichloropropane	ND		5	1	07/16/05 7:19	LT	2862661
1,2,4-Trichlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
1,2,4-Trimethylbenzene	670		50	10	07/16/05 18:14	LT	2862699
1,2-Dibromo-3-chloropropane	ND		5	1	07/16/05 7:19	LT	2862661
1,2-Dibromoethane	ND		5	1	07/16/05 7:19	LT	2862661
1,2-Dichlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
1,2-Dichloroethane	ND		5	1	07/16/05 7:19	LT	2862661
1,2-Dichloropropane	ND		5	1	07/16/05 7:19	LT	2862661
1,3,5-Trimethylbenzene	210		50	10	07/16/05 18:14	LT	2862699
1,3-Dichlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
1,3-Dichloropropane	ND		5	1	07/16/05 7:19	LT	2862661
1,4-Dichlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
2,2-Dichloropropane	ND		5	1	07/16/05 7:19	LT	2862661
2-Butanone	ND		20	1	07/16/05 7:19	LT	2862661
2-Chloroethyl vinyl ether	ND		10	1	07/16/05 7:19	LT	2862661
2-Chlorotoluene	ND		5	1	07/16/05 7:19	LT	2862661
2-Hexanone	ND		10	1	07/16/05 7:19	LT	2862661
4-Chlorotoluene	ND		5	1	07/16/05 7:19	LT	2862661
4-Isopropyltoluene	ND		5	1	07/16/05 7:19	LT	2862661
4-Methyl-2-pentanone	23		10	1	07/16/05 7:19	LT	2862661
Acetone	ND		100	1	07/16/05 7:19	LT	2862661
Acrylonitrile	ND		50	1	07/16/05 7:19	LT	2862661
Benzene	390		50	10	07/16/05 18:14	LT	2862699
Bromobenzene	ND		5	1	07/16/05 7:19	LT	2862661
Bromochloromethane	ND		5	1	07/16/05 7:19	LT	2862661
Bromodichloromethane	ND		5	1	07/16/05 7:19	LT	2862661
Bromoform	ND		5	1	07/16/05 7:19	LT	2862661
Bromomethane	ND		10	1	07/16/05 7:19	LT	2862661
Carbon disulfide	ND		5	1	07/16/05 7:19	LT	2862661
Carbon tetrachloride	ND		5	1	07/16/05 7:19	LT	2862661
Chlorobenzene	ND		5	1	07/16/05 7:19	LT	2862661
Chloroethane	ND		10	1	07/16/05 7:19	LT	2862661

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ESW

Collected: 07/13/2005 9:30

SPL Sample ID: 05070563-05

Site Hobbs, New Mexico

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroform	ND		5	1	07/16/05 7:19	LT	2862661
Chloromethane	ND		10	1	07/16/05 7:19	LT	2862661
Dibromochloromethane	ND		5	1	07/16/05 7:19	LT	2862661
Dibromomethane	ND		5	1	07/16/05 7:19	LT	2862661
Dichlorodifluoromethane	ND		10	1	07/16/05 7:19	LT	2862661
Ethylbenzene	370		50	10	07/16/05 18:14	LT	2862699
Hexachlorobutadiene	ND		5	1	07/16/05 7:19	LT	2862661
Isopropylbenzene	180		50	10	07/16/05 18:14	LT	2862699
Methyl tert-butyl ether	ND		5	1	07/16/05 7:19	LT	2862661
Methylene chloride	ND		5	1	07/16/05 7:19	LT	2862661
Naphthalene	200		50	10	07/16/05 18:14	LT	2862699
n-Butylbenzene	ND		5	1	07/16/05 7:19	LT	2862661
n-Propylbenzene	260		50	10	07/16/05 18:14	LT	2862699
sec-Butylbenzene	15		5	1	07/16/05 7:19	LT	2862661
Styrene	ND		5	1	07/16/05 7:19	LT	2862661
tert-Butylbenzene	ND		5	1	07/16/05 7:19	LT	2862661
Tetrachloroethene	ND		5	1	07/16/05 7:19	LT	2862661
Toluene	46		5	1	07/16/05 7:19	LT	2862661
Trichloroethene	ND		5	1	07/16/05 7:19	LT	2862661
Trichlorofluoromethane	ND		5	1	07/16/05 7:19	LT	2862661
Vinyl acetate	ND		10	1	07/16/05 7:19	LT	2862661
Vinyl chloride	ND		10	1	07/16/05 7:19	LT	2862661
cis-1,2-Dichloroethene	ND		5	1	07/16/05 7:19	LT	2862661
cis-1,3-Dichloropropene	ND		5	1	07/16/05 7:19	LT	2862661
m,p-Xylene	770		50	10	07/16/05 18:14	LT	2862699
o-Xylene	400		50	10	07/16/05 18:14	LT	2862699
trans-1,2-Dichloroethene	ND		5	1	07/16/05 7:19	LT	2862661
trans-1,3-Dichloropropene	ND		5	1	07/16/05 7:19	LT	2862661
1,2-Dichloroethene (total)	ND		5	1	07/16/05 7:19	LT	2862661
Xylenes, Total	1170		50	10	07/16/05 18:14	LT	2862699
Surr: 1,2-Dichloroethane-d4	94.0		% 62-130	10	07/16/05 18:14	LT	2862699
Surr: 1,2-Dichloroethane-d4	88.0		% 62-130	1	07/16/05 7:19	LT	2862661
Surr: 4-Bromofluorobenzene	102		% 70-130	1	07/16/05 7:19	LT	2862661
Surr: 4-Bromofluorobenzene	100		% 70-130	10	07/16/05 18:14	LT	2862699
Surr: Toluene-d8	100		% 74-122	1	07/16/05 7:19	LT	2862661
Surr: Toluene-d8	100		% 74-122	10	07/16/05 18:14	LT	2862699

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Brown & Caldwell

Certificate of Analysis Number:

05070676

Report To: Brown & Caldwell

Rick Rexroad
1415 Louisiana
Suite 2500
Houston

TX

77002-

ph (713) 759-0999

fax: (713) 308-3886

Project Name: BJ Service-Frac Master 128125

Site: Hobbs, NM

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported:

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
NS-24-25'	05070676-01	Soil	7/13/2005 10:50:00 AM	7/16/2005 10:00:00 AM	232563	☐
NS-34-35'	05070676-02	Soil	7/13/2005 11:00:00 AM	7/16/2005 10:00:00 AM	232563	☒
WS-19-20'	05070676-03	Soil	7/13/2005 2:30:00 PM	7/16/2005 10:00:00 AM	232563	☐
WS-48-49'	05070676-04	Soil	7/13/2005 4:00:00 PM	7/16/2005 10:00:00 AM	232563	☒
WB-7-13-05	05070676-05	Water	7/13/2005 4:30:00 PM	7/16/2005 10:00:00 AM	232563	☐
WB-7-13-05	05070676-06	Water	7/13/2005	7/16/2005 10:00:00 AM	232563	☐
SS-30-31'	05070676-07	Soil	7/14/2005 9:20:00 AM	7/16/2005 10:00:00 AM	232563	☐
MS-24-25'	05070676-08	Soil	7/14/2005 12:40:00 PM	7/16/2005 10:00:00 AM	232563	☐
MS-45-46'	05070676-09	Soil	7/14/2005 1:30:00 PM	7/16/2005 10:00:00 AM	232563	☒
WB-7-14-05	05070676-10	Water	7/14/2005 1:45:00 PM	7/16/2005 10:00:00 AM	232563	☐
ERB-W	05070676-11	Water	7/13/2005 5:40:00 PM	7/16/2005 10:00:00 AM	232567	☐
ERB-S	05070676-12	Water	7/14/2005 4:00:00 PM	7/16/2005 10:00:00 AM	232567	☐
WB-7-14-05	05070676-13	Water	7/14/2005	7/16/2005 10:00:00 AM	232567	☐

Sonia West

Sonia West
Senior Project Manager

7/26/2005

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID NS-24-25'

Collected: 07/13/2005 10:50

SPL Sample ID: 05070676-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Chloroethane	ND		5.4	5.0 +	10	11	1	07/19/05 16:50	JC
Chloroform	ND		0.41	0.38	5	5.4	1	07/19/05 16:50	JC
Chloromethane	ND		2.7	2.5 +	10	11	1	07/19/05 16:50	JC
Dibromochloromethane	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
Dibromomethane	ND		0.96	0.88	5	5.4	1	07/19/05 16:50	JC
Dichlorodifluoromethane	ND		5.4	5.0 +	10	11	1	07/19/05 16:50	JC
Ethylbenzene	ND		0.47	0.43	5	5.4	1	07/19/05 16:50	JC
Hexachlorobutadiene	ND		2.9	2.7	5	5.4	1	07/19/05 16:50	JC
Isopropylbenzene	ND		0.24	0.22	5	5.4	1	07/19/05 16:50	JC
Methyl tert-butyl ether	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
Methylene chloride	ND		0.31	0.28	5	5.4	1	07/19/05 16:50	JC
Naphthalene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
n-Butylbenzene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
n-Propylbenzene	ND		0.43	0.39	5	5.4	1	07/19/05 16:50	JC
sec-Butylbenzene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
Styrene	ND		0.20	0.18	5	5.4	1	07/19/05 16:50	JC
tert-Butylbenzene	ND		0.52	0.48	5	5.4	1	07/19/05 16:50	JC
Tetrachloroethene	ND		1.5	1.4	5	5.4	1	07/19/05 16:50	JC
Toluene	ND		0.36	0.34	5	5.4	1	07/19/05 16:50	JC
Trichloroethene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
Trichlorofluoromethane	ND		1.4	1.3	5	5.4	1	07/19/05 16:50	JC
Vinyl acetate	ND		2.5	2.3	10	11	1	07/19/05 16:50	JC
Vinyl chloride	ND		2.7	2.5 +	10	11	1	07/19/05 16:50	JC
cis-1,2-Dichloroethene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
cis-1,3-Dichloropropene	ND		2.7	2.5 +	5	5.4	1	07/19/05 16:50	JC
m,p-Xylene	ND		1.1	1.0	5	5.4	1	07/19/05 16:50	JC
o-Xylene	ND		0.43	0.40	5	5.4	1	07/19/05 16:50	JC
trans-1,2-Dichloroethene	ND		0.78	0.72	5	5.4	1	07/19/05 16:50	JC
trans-1,3-Dichloropropene	ND		5.4	5.0 +	5	5.4	1	07/19/05 16:50	JC
Xylenes, Total	ND		0.43	0.40	5	5.4	1	07/19/05 16:50	JC
1,2-Dichloroethene (total)	ND		0.78	0.72	5	5.4	1	07/19/05 16:50	JC
Surr: 1,2-Dichloroethane-d4	84.0		%	64-130			1	07/19/05 16:50	JC
Surr: 4-Bromofluorobenzene	92.0		%	62-130			1	07/19/05 16:50	JC
Surr: Toluene-d8	104		%	70-140			1	07/19/05 16:50	JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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7/26/2005 11:46:44 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID WS-19-20'

Collected: 07/13/2005 14:30

SPL Sample ID: 05070676-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
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DIESEL RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Diesel Range Organics (C10-C28)	670		26	0.49	5	260	50	07/21/05 2:21	NW
Surr: n-Pentacosane	D	*	%	20-154			50	07/21/05 2:21	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:03	T L	1.00

GASOLINE RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Gasoline Range Organics	1100		22	0.021	0.1	110	1000	07/22/05 1:11	RLH
Surr: 1,4-Difluorobenzene	100		%	63-142			1000	07/22/05 1:11	RLH
Surr: 4-Bromofluorobenzene	247 MI	*	%	50-159			1000	07/22/05 1:11	RLH

MOISTURE - ASTM

D2216

Units: %

Percent Moisture	5.57				0	1	07/19/05 17:59	E_S
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Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID WS-19-20'

Collected: 07/13/2005 14:30

SPL Sample ID: 05070676-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analys
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/kg-dry			
1,2,4-Trichlorobenzene	ND		26	24	330	350	1	07/22/05 17:57	GQ
1,2-Dichlorobenzene	ND		26	25	330	350	1	07/22/05 17:57	GQ
1,2-Diphenylhydrazine	ND		18	17	330	350	1	07/22/05 17:57	GQ
1,3-Dichlorobenzene	ND		23	22	330	350	1	07/22/05 17:57	GQ
1,4-Dichlorobenzene	ND		25	23	330	350	1	07/22/05 17:57	GQ
2,4,5-Trichlorophenol	ND		47	44	800	850	1	07/22/05 17:57	GQ
2,4,6-Trichlorophenol	ND		18	17	330	350	1	07/22/05 17:57	GQ
2,4-Dichlorophenol	ND		18	17	330	350	1	07/22/05 17:57	GQ
2,4-Dimethylphenol	220	J	22	20	330	350	1	07/22/05 17:57	GQ
2,4-Dinitrophenol	ND		75	71	800	850	1	07/22/05 17:57	GQ
2,4-Dinitrotoluene	ND		9.7	9.2	800	850	1	07/22/05 17:57	GQ
2,6-Dinitrotoluene	ND		13	12	330	350	1	07/22/05 17:57	GQ
2-Chloronaphthalene	ND		20	18	330	350	1	07/22/05 17:57	GQ
2-Chlorophenol	ND		22	21	330	350	1	07/22/05 17:57	GQ
2-Methylnaphthalene	770		21	20	330	350	1	07/22/05 17:57	GQ
2-Nitroaniline	ND		11	10	800	850	1	07/22/05 17:57	GQ
2-Nitrophenol	ND		19	18	330	350	1	07/22/05 17:57	GQ
3,3'-Dichlorobenzidine	ND		21	20	330	350	1	07/22/05 17:57	GQ
3-Nitroaniline	ND		11	10	800	850	1	07/22/05 17:57	GQ
4,6-Dinitro-2-methylphenol	ND		21	20	800	850	1	07/22/05 17:57	GQ
4-Bromophenyl phenyl ether	ND		9.1	8.6	330	350	1	07/22/05 17:57	GQ
4-Chloro-3-methylphenol	ND		12	11	330	350	1	07/22/05 17:57	GQ
4-Chloroaniline	ND		15	14	330	350	1	07/22/05 17:57	GQ
4-Chlorophenyl phenyl ether	ND		10	9.8	330	350	1	07/22/05 17:57	GQ
4-Nitroaniline	ND		23	22	800	850	1	07/22/05 17:57	GQ
4-Nitrophenol	ND		26	25	800	850	1	07/22/05 17:57	GQ
Acenaphthene	84	J	17	16	330	350	1	07/22/05 17:57	GQ
Acenaphthylene	ND		16	15	330	350	1	07/22/05 17:57	GQ
Aniline	ND		17	16	330	350	1	07/22/05 17:57	GQ
Anthracene	ND		20	19	330	350	1	07/22/05 17:57	GQ
Benz(a)anthracene	ND		16	15	330	350	1	07/22/05 17:57	GQ
Benzo(a)pyrene	ND		18	17	330	350	1	07/22/05 17:57	GQ
Benzo(b)fluoranthene	ND		14	13	330	350	1	07/22/05 17:57	GQ
Benzo(g,h,i)perylene	ND		28	27	330	350	1	07/22/05 17:57	GQ
Benzo(k)fluoranthene	ND		12	12	330	350	1	07/22/05 17:57	GQ
Benzoic acid	ND		12	12	1600	1700	1	07/22/05 17:57	GQ
Benzyl alcohol	ND		21	20	330	350	1	07/22/05 17:57	GQ
Bis(2-chloroethoxy)methane	ND		26	24	330	350	1	07/22/05 17:57	GQ
Bis(2-chloroethyl)ether	ND		28	26	330	350	1	07/22/05 17:57	GQ

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID WS-19-20'

Collected: 07/13/2005 14:30

SPL Sample ID: 05070676-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
Bis(2-chloroisopropyl)ether	ND		22	20	330	350	1	07/22/05 17:57	GQ
Bis(2-ethylhexyl)phthalate	ND		19	18	330	350	1	07/22/05 17:57	GQ
Butyl benzyl phthalate	ND		18	17	330	350	1	07/22/05 17:57	GQ
Carbazole	ND		24	22	330	350	1	07/22/05 17:57	GQ
Chrysene	78	J	12	11	330	350	1	07/22/05 17:57	GQ
Dibenz(a,h)anthracene	ND		110	100	330	350	1	07/22/05 17:57	GQ
Dibenzofuran	ND		16	15	330	350	1	07/22/05 17:57	GQ
Diethyl phthalate	ND		26	25	330	350	1	07/22/05 17:57	GQ
Dimethyl phthalate	ND		11	10	330	350	1	07/22/05 17:57	GQ
Di-n-butyl phthalate	ND		27	25	330	350	1	07/22/05 17:57	GQ
Di-n-octyl phthalate	ND		8.6	8.1	330	350	1	07/22/05 17:57	GQ
Fluoranthene	ND		28	26	330	350	1	07/22/05 17:57	GQ
Fluorene	240	J	13	12	330	350	1	07/22/05 17:57	GQ
Hexachlorobenzene	ND		16	15	330	350	1	07/22/05 17:57	GQ
Hexachlorobutadiene	ND		28	27	330	350	1	07/22/05 17:57	GQ
Hexachlorocyclopentadiene	ND		19	18	330	350	1	07/22/05 17:57	GQ
Hexachloroethane	ND		28	26	330	350	1	07/22/05 17:57	GQ
Indeno(1,2,3-cd)pyrene	ND		22	21	330	350	1	07/22/05 17:57	GQ
Isophorone	ND		19	18	330	350	1	07/22/05 17:57	GQ
Naphthalene	220	J	22	21	330	350	1	07/22/05 17:57	GQ
Nitrobenzene	ND		22	21	330	350	1	07/22/05 17:57	GQ
N-Nitrosodi-n-propylamine	ND		18	17	330	350	1	07/22/05 17:57	GQ
N-Nitrosodiphenylamine	ND		36	34	330	350	1	07/22/05 17:57	GQ
Pentachlorophenol	ND		35	33	800	850	1	07/22/05 17:57	GQ
Phenanthrene	440		16	15	330	350	1	07/22/05 17:57	GQ
Phenol	ND		23	22	330	350	1	07/22/05 17:57	GQ
Pyrene	ND		31	29	330	350	1	07/22/05 17:57	GQ
Pyridine	ND		28	26	330	350	1	07/22/05 17:57	GQ
2-Methylphenol	150	J	22	20	330	350	1	07/22/05 17:57	GQ
3 & 4-Methylphenol	ND		18	17	330	350	1	07/22/05 17:57	GQ
Surr: 2,4,6-Tribromophenol	38.4		%	19-135			1	07/22/05 17:57	GQ
Surr: 2-Fluorobiphenyl	29.4		%	15-140			1	07/22/05 17:57	GQ
Surr: 2-Fluorophenol	14.8	*	%	15-122			1	07/22/05 17:57	GQ
Surr: Nitrobenzene-d5	18.8		%	10-134			1	07/22/05 17:57	GQ
Surr: Phenol-d5	20.8		%	10-123			1	07/22/05 17:57	GQ
Surr: Terphenyl-d14	39.4		%	18-166			1	07/22/05 17:57	GQ

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:23	T L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID WS-19-20'

Collected: 07/13/2005 14:30

SPL Sample ID: 05070676-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/kg-dry			
1,1,1,2-Tetrachloroethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,1,1-Trichloroethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,1,2,2-Tetrachloroethane	ND		0.47	0.44		5	5.3	1	07/19/05 19:35 JC
1,1,2-Trichloroethane	ND		1.1	1.0		5	5.3	1	07/19/05 19:35 JC
1,1-Dichloroethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,1-Dichloroethene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,1-Dichloropropene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,2,3-Trichlorobenzene	ND		5.3	5.0	+	5	5.3	1	07/19/05 19:35 JC
1,2,3-Trichloropropane	ND		0.63	0.59		5	5.3	1	07/19/05 19:35 JC
1,2,4-Trichlorobenzene	ND		5.3	5.0	+	5	5.3	1	07/19/05 19:35 JC
1,2,4-Trimethylbenzene	12000		460	0.44		5	5300	1000	07/23/05 15:39 C_V
1,2-Dibromo-3-chloropropane	ND		2.0	1.9		5	5.3	1	07/19/05 19:35 JC
1,2-Dibromoethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,2-Dichlorobenzene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,2-Dichloroethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,2-Dichloropropane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,3,5-Trimethylbenzene	3700 J	J	460	0.44		5	5300	1000	07/23/05 15:39 C_V
1,3-Dichlorobenzene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,3-Dichloropropane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
1,4-Dichlorobenzene	ND		0.81	0.77		5	5.3	1	07/19/05 19:35 JC
2,2-Dichloropropane	ND		5.3	5.0	+	5	5.3	1	07/19/05 19:35 JC
2-Butanone	ND		3.0	2.8		20	21	1	07/19/05 19:35 JC
2-Chloroethyl vinyl ether	ND		2.6	2.5	+	10	11	1	07/19/05 19:35 JC
2-Chlorotoluene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
2-Hexanone	ND		1.8	1.7		10	11	1	07/19/05 19:35 JC
4-Chlorotoluene	ND		0.42	0.40		5	5.3	1	07/19/05 19:35 JC
4-Isopropyltoluene	ND		0.45	0.42		5	5.3	1	07/19/05 19:35 JC
4-Methyl-2-pentanone	ND		2.2	2.0		10	11	1	07/19/05 19:35 JC
Acetone	ND		14	13		100	110	1	07/19/05 19:35 JC
Acrylonitrile	ND		3.5	3.3		50	53	1	07/19/05 19:35 JC
Benzene	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
Bromobenzene	ND		1.1	1.0	+	5	5.3	1	07/19/05 19:35 JC
Bromochloromethane	ND		0.92	0.87		5	5.3	1	07/19/05 19:35 JC
Bromodichloromethane	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
Bromoform	ND		5.3	5.0	+	5	5.3	1	07/19/05 19:35 JC
Bromomethane	ND		2.4	2.3		10	11	1	07/19/05 19:35 JC
Carbon disulfide	ND		2.6	2.5	+	5	5.3	1	07/19/05 19:35 JC
Carbon tetrachloride	ND		1.1	1.0		5	5.3	1	07/19/05 19:35 JC
Chlorobenzene	ND		0.61	0.57		5	5.3	1	07/19/05 19:35 JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
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J - Estimated Value between SQL and MQL (PQL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID WS-19-20'

Collected: 07/13/2005 14:30 SPL Sample ID: 05070676-03

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Chloroethane	ND		5.3	5.0 +	10	11	1	07/19/05 19:35	JC
Chloroform	ND		0.40	0.38	5	5.3	1	07/19/05 19:35	JC
Chloromethane	ND		2.6	2.5 +	10	11	1	07/19/05 19:35	JC
Dibromochloromethane	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
Dibromomethane	ND		0.94	0.88	5	5.3	1	07/19/05 19:35	JC
Dichlorodifluoromethane	ND		5.3	5.0 +	10	11	1	07/19/05 19:35	JC
Ethylbenzene	8000		460	0.43	5	5300	1000	07/23/05 15:39	C_V
Hexachlorobutadiene	ND		2.9	2.7	5	5.3	1	07/19/05 19:35	JC
Isopropylbenzene	1300 J	J	230	0.22	5	5300	1000	07/23/05 15:39	C_V
Methyl tert-butyl ether	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
Methylene chloride	ND		0.30	0.28	5	5.3	1	07/19/05 19:35	JC
Naphthalene	170		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
n-Butylbenzene	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
n-Propylbenzene	2300 J	J	420	0.39	5	5300	1000	07/23/05 15:39	C_V
sec-Butylbenzene	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
Styrene	ND		0.19	0.18	5	5.3	1	07/19/05 19:35	JC
tert-Butylbenzene	ND		0.51	0.48	5	5.3	1	07/19/05 19:35	JC
Tetrachloroethene	ND		1.5	1.4	5	5.3	1	07/19/05 19:35	JC
Toluene	1000 J	J	360	0.34	5	5300	1000	07/23/05 15:39	C_V
Trichloroethene	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
Trichlorofluoromethane	ND		1.3	1.3	5	5.3	1	07/19/05 19:35	JC
Vinyl acetate	ND		2.4	2.3	10	11	1	07/19/05 19:35	JC
Vinyl chloride	ND		2.6	2.5 +	10	11	1	07/19/05 19:35	JC
cis-1,2-Dichloroethene	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
cis-1,3-Dichloropropene	ND		2.6	2.5 +	5	5.3	1	07/19/05 19:35	JC
m,p-Xylene	230000		1100	1.0	5	5300	1000	07/23/05 15:39	C_V
o-Xylene	73000		420	0.40	5	5300	1000	07/23/05 15:39	C_V
trans-1,2-Dichloroethene	ND		0.76	0.72	5	5.3	1	07/19/05 19:35	JC
trans-1,3-Dichloropropene	ND		5.3	5.0 +	5	5.3	1	07/19/05 19:35	JC
Xylenes, Total	303000		424	0.400	5	5290	1000	07/23/05 15:39	C_V
1,2-Dichloroethene (total)	ND		0.76	0.72	5	5.3	1	07/19/05 19:35	JC
Surr: 1,2-Dichloroethane-d4	82.0		% 64-130				1	07/19/05 19:35	JC
Surr: 1,2-Dichloroethane-d4	98.0		% 64-130				1000	07/23/05 15:39	C_V
Surr: 4-Bromofluorobenzene	138 MI		% 62-130				1	07/19/05 19:35	JC
Surr: 4-Bromofluorobenzene	102		% 62-130				1000	07/23/05 15:39	C_V
Surr: Toluene-d8	100		% 70-140				1	07/19/05 19:35	JC
Surr: Toluene-d8	96.0		% 70-140				1000	07/23/05 15:39	C_V

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-13-05

Collected: 07/13/2005 16:30

SPL Sample ID: 05070676-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND		0.56	0.56	5	5	1	07/22/05 15:46	L_L
1,1,1-Trichloroethane	ND		0.86	0.86	5	5	1	07/22/05 15:46	L_L
1,1,2,2-Tetrachloroethane	ND		0.80	0.80	5	5	1	07/22/05 15:46	L_L
1,1,2-Trichloroethane	ND		0.83	0.83	5	5	1	07/22/05 15:46	L_L
1,1-Dichloroethane	ND		0.34	0.34	5	5	1	07/22/05 15:46	L_L
1,1-Dichloroethene	ND		0.95	0.95	5	5	1	07/22/05 15:46	L_L
1,1-Dichloropropene	ND		0.81	0.81	5	5	1	07/22/05 15:46	L_L
1,2,3-Trichlorobenzene	ND		0.72	0.72	5	5	1	07/22/05 15:46	L_L
1,2,3-Trichloropropane	ND		0.87	0.87	5	5	1	07/22/05 15:46	L_L
1,2,4-Trichlorobenzene	ND		0.36	0.36	5	5	1	07/22/05 15:46	L_L
1,2,4-Trimethylbenzene	ND		0.39	0.39	5	5	1	07/22/05 15:46	L_L
1,2-Dibromo-3-chloropropane	ND		0.90	0.90	5	5	1	07/22/05 15:46	L_L
1,2-Dibromoethane	ND		0.92	0.92	5	5	1	07/22/05 15:46	L_L
1,2-Dichlorobenzene	ND		0.49	0.49	5	5	1	07/22/05 15:46	L_L
1,2-Dichloroethane	ND		0.43	0.43	5	5	1	07/22/05 15:46	L_L
1,2-Dichloropropane	ND		0.57	0.57	5	5	1	07/22/05 15:46	L_L
1,3,5-Trimethylbenzene	ND		0.44	0.44	5	5	1	07/22/05 15:46	L_L
1,3-Dichlorobenzene	ND		0.74	0.74	5	5	1	07/22/05 15:46	L_L
1,3-Dichloropropane	ND		0.44	0.44	5	5	1	07/22/05 15:46	L_L
1,4-Dichlorobenzene	ND		0.62	0.62	5	5	1	07/22/05 15:46	L_L
2,2-Dichloropropane	ND		0.64	0.64	5	5	1	07/22/05 15:46	L_L
2-Butanone	ND		2.6	2.6	20	20	1	07/22/05 15:46	L_L
2-Chloroethyl vinyl ether	ND		1.1	1.1	10	10	1	07/22/05 15:46	L_L
2-Chlorotoluene	ND		0.51	0.51	5	5	1	07/22/05 15:46	L_L
2-Hexanone	ND		1.8	1.8	10	10	1	07/22/05 15:46	L_L
4-Chlorotoluene	ND		0.87	0.87	5	5	1	07/22/05 15:46	L_L
4-Isopropyltoluene	ND		0.35	0.35	5	5	1	07/22/05 15:46	L_L
4-Methyl-2-pentanone	ND		0.44	0.44	10	10	1	07/22/05 15:46	L_L
Acetone	ND		8.0	8.0	100	100	1	07/22/05 15:46	L_L
Acrylonitrile	ND		4.6	4.6	50	50	1	07/22/05 15:46	L_L
Benzene	ND		0.44	0.44	5	5	1	07/22/05 15:46	L_L
Bromobenzene	ND		0.38	0.38	5	5	1	07/22/05 15:46	L_L
Bromochloromethane	ND		0.93	0.93	5	5	1	07/22/05 15:46	L_L
Bromodichloromethane	ND		0.24	0.24	5	5	1	07/22/05 15:46	L_L
Bromoform	ND		0.60	0.60	5	5	1	07/22/05 15:46	L_L
Bromomethane	ND		2.0	2.0	10	10	1	07/22/05 15:46	L_L
Carbon disulfide	ND		0.62	0.62	5	5	1	07/22/05 15:46	L_L
Carbon tetrachloride	ND		1.1	1.1	5	5	1	07/22/05 15:46	L_L
Chlorobenzene	ND		0.42	0.42	5	5	1	07/22/05 15:46	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-13-05

Collected: 07/13/2005 16:30

SPL Sample ID: 05070676-05

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis	
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 15:46	L_L	
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 15:46	L_L	
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 15:46	L_L	
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 15:46	L_L	
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 15:46	L_L	
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 15:46	L_L	
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 15:46	L_L	
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 15:46	L_L	
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 15:46	L_L	
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 15:46	L_L	
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 15:46	L_L	
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 15:46	L_L	
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 15:46	L_L	
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 15:46	L_L	
sec-Butylbenzene	ND		2.5	2.5	+	5	5	1	07/22/05 15:46	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 15:46	L_L	
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 15:46	L_L	
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 15:46	L_L	
Toluene	2	J	0.53	0.53	5	5	1	07/22/05 15:46	L_L	
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 15:46	L_L	
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 15:46	L_L	
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 15:46	L_L	
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 15:46	L_L	
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 15:46	L_L	
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 15:46	L_L	
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 15:46	L_L	
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 15:46	L_L	
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 15:46	L_L	
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 15:46	L_L	
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 15:46	L_L	
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 15:46	L_L	
Surr: 1,2-Dichloroethane-d4	92.0		%	62-130			1	07/22/05 15:46	L_L	
Surr: 4-Bromofluorobenzene	96.0		%	70-130			1	07/22/05 15:46	L_L	
Surr: Toluene-d8	96.0		%	74-122			1	07/22/05 15:46	L_L	

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-13-05

Collected: 07/13/2005 0:00

SPL Sample ID: 05070676-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND	0.56	0.56		5	5	1	07/22/05 14:49	L_L
1,1,1-Trichloroethane	ND	0.86	0.86		5	5	1	07/22/05 14:49	L_L
1,1,2,2-Tetrachloroethane	ND	0.80	0.80		5	5	1	07/22/05 14:49	L_L
1,1,2-Trichloroethane	ND	0.83	0.83		5	5	1	07/22/05 14:49	L_L
1,1-Dichloroethane	ND	0.34	0.34		5	5	1	07/22/05 14:49	L_L
1,1-Dichloroethene	ND	0.95	0.95		5	5	1	07/22/05 14:49	L_L
1,1-Dichloropropene	ND	0.81	0.81		5	5	1	07/22/05 14:49	L_L
1,2,3-Trichlorobenzene	ND	0.72	0.72		5	5	1	07/22/05 14:49	L_L
1,2,3-Trichloropropane	ND	0.87	0.87		5	5	1	07/22/05 14:49	L_L
1,2,4-Trichlorobenzene	ND	0.36	0.36		5	5	1	07/22/05 14:49	L_L
1,2,4-Trimethylbenzene	ND	0.39	0.39		5	5	1	07/22/05 14:49	L_L
1,2-Dibromo-3-chloropropane	ND	0.90	0.90		5	5	1	07/22/05 14:49	L_L
1,2-Dibromoethane	ND	0.92	0.92		5	5	1	07/22/05 14:49	L_L
1,2-Dichlorobenzene	ND	0.49	0.49		5	5	1	07/22/05 14:49	L_L
1,2-Dichloroethane	ND	0.43	0.43		5	5	1	07/22/05 14:49	L_L
1,2-Dichloropropane	ND	0.57	0.57		5	5	1	07/22/05 14:49	L_L
1,3,5-Trimethylbenzene	ND	0.44	0.44		5	5	1	07/22/05 14:49	L_L
1,3-Dichlorobenzene	ND	0.74	0.74		5	5	1	07/22/05 14:49	L_L
1,3-Dichloropropane	ND	0.44	0.44		5	5	1	07/22/05 14:49	L_L
1,4-Dichlorobenzene	ND	0.62	0.62		5	5	1	07/22/05 14:49	L_L
2,2-Dichloropropane	ND	0.64	0.64		5	5	1	07/22/05 14:49	L_L
2-Butanone	ND	2.6	2.6		20	20	1	07/22/05 14:49	L_L
2-Chloroethyl vinyl ether	ND	1.1	1.1		10	10	1	07/22/05 14:49	L_L
2-Chlorotoluene	ND	0.51	0.51		5	5	1	07/22/05 14:49	L_L
2-Hexanone	ND	1.8	1.8		10	10	1	07/22/05 14:49	L_L
4-Chlorotoluene	ND	0.87	0.87		5	5	1	07/22/05 14:49	L_L
4-Isopropyltoluene	ND	0.35	0.35		5	5	1	07/22/05 14:49	L_L
4-Methyl-2-pentanone	ND	0.44	0.44		10	10	1	07/22/05 14:49	L_L
Acetone	ND	8.0	8.0		100	100	1	07/22/05 14:49	L_L
Acrylonitrile	ND	4.6	4.6		50	50	1	07/22/05 14:49	L_L
Benzene	ND	0.44	0.44		5	5	1	07/22/05 14:49	L_L
Bromobenzene	ND	0.38	0.38		5	5	1	07/22/05 14:49	L_L
Bromochloromethane	ND	0.93	0.93		5	5	1	07/22/05 14:49	L_L
Bromodichloromethane	ND	0.24	0.24		5	5	1	07/22/05 14:49	L_L
Bromoform	ND	0.60	0.60		5	5	1	07/22/05 14:49	L_L
Bromomethane	ND	2.0	2.0		10	10	1	07/22/05 14:49	L_L
Carbon disulfide	ND	0.62	0.62		5	5	1	07/22/05 14:49	L_L
Carbon tetrachloride	ND	1.1	1.1		5	5	1	07/22/05 14:49	L_L
Chlorobenzene	ND	0.42	0.42		5	5	1	07/22/05 14:49	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-13-05

Collected: 07/13/2005 0:00

SPL Sample ID: 05070676-06

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 14:49	L_L
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 14:49	L_L
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 14:49	L_L
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 14:49	L_L
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 14:49	L_L
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 14:49	L_L
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 14:49	L_L
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 14:49	L_L
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 14:49	L_L
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 14:49	L_L
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 14:49	L_L
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 14:49	L_L
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 14:49	L_L
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 14:49	L_L
sec-Butylbenzene	ND		2.5	2.5	5	5	1	07/22/05 14:49	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 14:49	L_L
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 14:49	L_L
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 14:49	L_L
Toluene	ND		0.53	0.53	5	5	1	07/22/05 14:49	L_L
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 14:49	L_L
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 14:49	L_L
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 14:49	L_L
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 14:49	L_L
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 14:49	L_L
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 14:49	L_L
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 14:49	L_L
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 14:49	L_L
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 14:49	L_L
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 14:49	L_L
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 14:49	L_L
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 14:49	L_L
Surr: 1,2-Dichloroethane-d4	90.0		%	62-130			1	07/22/05 14:49	L_L
Surr: 4-Bromofluorobenzene	98.0		%	70-130			1	07/22/05 14:49	L_L
Surr: Toluene-d8	96.0		%	74-122			1	07/22/05 14:49	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SS-30-31'

Collected: 07/14/2005 9:20

SPL Sample ID: 05070676-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
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DIESEL RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Diesel Range Organics (C10-C28)	0.93	J	0.51	0.49	5	5.3	1	07/21/05 1:39	NW
Surr: n-Pentacosane	73.0		%	20-154			1	07/21/05 1:39	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:03	T L	1.00

GASOLINE RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Gasoline Range Organics	ND		0.022	0.021	0.1	0.11	1	07/20/05 15:39	RLH
Surr: 1,4-Difluorobenzene	101		%	63-142			1	07/20/05 15:39	RLH
Surr: 4-Bromofluorobenzene	113		%	50-159			1	07/20/05 15:39	RLH

MOISTURE - ASTM

D2216

Units: %

Percent Moisture	4.8				0		1	07/19/05 17:59	E_S
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Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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7/26/2005 11:46:47 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SS-30-31'

Collected: 07/14/2005 9:20

SPL Sample ID: 05070676-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/kg-dry			
1,2,4-Trichlorobenzene	ND		26	24	330	350	1	07/22/05 18:28	GQ
1,2-Dichlorobenzene	ND		26	25	330	350	1	07/22/05 18:28	GQ
1,2-Diphenylhydrazine	ND		18	17	330	350	1	07/22/05 18:28	GQ
1,3-Dichlorobenzene	ND		23	22	330	350	1	07/22/05 18:28	GQ
1,4-Dichlorobenzene	ND		25	23	330	350	1	07/22/05 18:28	GQ
2,4,5-Trichlorophenol	ND		47	44	800	840	1	07/22/05 18:28	GQ
2,4,6-Trichlorophenol	ND		18	17	330	350	1	07/22/05 18:28	GQ
2,4-Dichlorophenol	ND		18	17	330	350	1	07/22/05 18:28	GQ
2,4-Dimethylphenol	ND		21	20	330	350	1	07/22/05 18:28	GQ
2,4-Dinitrophenol	ND		75	71	800	840	1	07/22/05 18:28	GQ
2,4-Dinitrotoluene	ND		9.7	9.2	800	840	1	07/22/05 18:28	GQ
2,6-Dinitrotoluene	ND		13	12	330	350	1	07/22/05 18:28	GQ
2-Chloronaphthalene	ND		19	18	330	350	1	07/22/05 18:28	GQ
2-Chlorophenol	ND		22	21	330	350	1	07/22/05 18:28	GQ
2-Methylnaphthalene	ND		21	20	330	350	1	07/22/05 18:28	GQ
2-Nitroaniline	ND		11	10	800	840	1	07/22/05 18:28	GQ
2-Nitrophenol	ND		19	18	330	350	1	07/22/05 18:28	GQ
3,3'-Dichlorobenzidine	ND		21	20	330	350	1	07/22/05 18:28	GQ
3-Nitroaniline	ND		11	10	800	840	1	07/22/05 18:28	GQ
4,6-Dinitro-2-methylphenol	ND		21	20	800	840	1	07/22/05 18:28	GQ
4-Bromophenyl phenyl ether	ND		9.0	8.6	330	350	1	07/22/05 18:28	GQ
4-Chloro-3-methylphenol	ND		12	11	330	350	1	07/22/05 18:28	GQ
4-Chloroaniline	ND		15	14	330	350	1	07/22/05 18:28	GQ
4-Chlorophenyl phenyl ether	ND		10	9.8	330	350	1	07/22/05 18:28	GQ
4-Nitroaniline	ND		23	22	800	840	1	07/22/05 18:28	GQ
4-Nitrophenol	ND		26	25	800	840	1	07/22/05 18:28	GQ
Acenaphthene	ND		16	16	330	350	1	07/22/05 18:28	GQ
Acenaphthylene	ND		16	15	330	350	1	07/22/05 18:28	GQ
Aniline	ND		17	16	330	350	1	07/22/05 18:28	GQ
Anthracene	ND		20	19	330	350	1	07/22/05 18:28	GQ
Benz(a)anthracene	ND		16	15	330	350	1	07/22/05 18:28	GQ
Benzo(a)pyrene	ND		18	17	330	350	1	07/22/05 18:28	GQ
Benzo(b)fluoranthene	ND		14	13	330	350	1	07/22/05 18:28	GQ
Benzo(g,h,i)perylene	ND		28	27	330	350	1	07/22/05 18:28	GQ
Benzo(k)fluoranthene	ND		12	12	330	350	1	07/22/05 18:28	GQ
Benzoic acid	ND		12	12	1600	1700	1	07/22/05 18:28	GQ
Benzyl alcohol	ND		21	20	330	350	1	07/22/05 18:28	GQ
Bis(2-chloroethoxy)methane	ND		26	24	330	350	1	07/22/05 18:28	GQ
Bis(2-chloroethyl)ether	ND		28	26	330	350	1	07/22/05 18:28	GQ

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SS-30-31'

Collected: 07/14/2005 9:20

SPL Sample ID: 05070676-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
Bis(2-chloroisopropyl)ether	ND		22	20	330	350	1	07/22/05 18:28	GQ
Bis(2-ethylhexyl)phthalate	ND		18	18	330	350	1	07/22/05 18:28	GQ
Butyl benzyl phthalate	ND		18	17	330	350	1	07/22/05 18:28	GQ
Carbazole	ND		24	22	330	350	1	07/22/05 18:28	GQ
Chrysene	ND		12	11	330	350	1	07/22/05 18:28	GQ
Dibenz(a,h)anthracene	ND		110	100	330	350	1	07/22/05 18:28	GQ
Dibenzofuran	ND		16	15	330	350	1	07/22/05 18:28	GQ
Diethyl phthalate	ND		26	25	330	350	1	07/22/05 18:28	GQ
Dimethyl phthalate	ND		11	10	330	350	1	07/22/05 18:28	GQ
Di-n-butyl phthalate	ND		26	25	330	350	1	07/22/05 18:28	GQ
Di-n-octyl phthalate	ND		8.5	8.1	330	350	1	07/22/05 18:28	GQ
Fluoranthene	ND		28	26	330	350	1	07/22/05 18:28	GQ
Fluorene	ND		13	12	330	350	1	07/22/05 18:28	GQ
Hexachlorobenzene	ND		16	15	330	350	1	07/22/05 18:28	GQ
Hexachlorobutadiene	ND		28	27	330	350	1	07/22/05 18:28	GQ
Hexachlorocyclopentadiene	ND		19	18	330	350	1	07/22/05 18:28	GQ
Hexachloroethane	ND		28	26	330	350	1	07/22/05 18:28	GQ
Indeno(1,2,3-cd)pyrene	ND		22	21	330	350	1	07/22/05 18:28	GQ
Isophorone	ND		19	18	330	350	1	07/22/05 18:28	GQ
Naphthalene	ND		22	21	330	350	1	07/22/05 18:28	GQ
Nitrobenzene	ND		22	21	330	350	1	07/22/05 18:28	GQ
N-Nitrosodi-n-propylamine	ND		18	17	330	350	1	07/22/05 18:28	GQ
N-Nitrosodiphenylamine	ND		36	34	330	350	1	07/22/05 18:28	GQ
Pentachlorophenol	ND		35	33	800	840	1	07/22/05 18:28	GQ
Phenanthrene	ND		16	15	330	350	1	07/22/05 18:28	GQ
Phenol	ND		23	22	330	350	1	07/22/05 18:28	GQ
Pyrene	ND		30	29	330	350	1	07/22/05 18:28	GQ
Pyridine	ND		28	26	330	350	1	07/22/05 18:28	GQ
2-Methylphenol	ND		22	20	330	350	1	07/22/05 18:28	GQ
3 & 4-Methylphenol	ND		18	17	330	350	1	07/22/05 18:28	GQ
Surr: 2,4,6-Tribromophenol	31.6	%	19-135				1	07/22/05 18:28	GQ
Surr: 2-Fluorobiphenyl	11.8	%	15-140				1	07/22/05 18:28	GQ
Surr: 2-Fluorophenol	10.4	%	15-122				1	07/22/05 18:28	GQ
Surr: Nitrobenzene-d5	9.40	%	10-134				1	07/22/05 18:28	GQ
Surr: Phenol-d5	14.0	%	10-123				1	07/22/05 18:28	GQ
Surr: Terphenyl-d14	44.1	%	18-166				1	07/22/05 18:28	GQ

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:23	T L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SS-30-31'

Collected: 07/14/2005 9:20

SPL Sample ID: 05070676-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/kg-dry			
1,1,1,2-Tetrachloroethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,1,1-Trichloroethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,1,2,2-Tetrachloroethane	ND		0.47	0.44		5	5.3	1	07/23/05 11:58 JC
1,1,2-Trichloroethane	ND		1.1	1.0		5	5.3	1	07/23/05 11:58 JC
1,1-Dichloroethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,1-Dichloroethene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,1-Dichloropropene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,2,3-Trichlorobenzene	ND		5.3	5.0	+	5	5.3	1	07/23/05 11:58 JC
1,2,3-Trichloropropane	ND		0.62	0.59		5	5.3	1	07/23/05 11:58 JC
1,2,4-Trichlorobenzene	ND		5.3	5.0	+	5	5.3	1	07/23/05 11:58 JC
1,2,4-Trimethylbenzene	ND		0.46	0.44		5	5.3	1	07/23/05 11:58 JC
1,2-Dibromo-3-chloropropane	ND		2.0	1.9		5	5.3	1	07/23/05 11:58 JC
1,2-Dibromoethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,2-Dichlorobenzene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,2-Dichloroethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,2-Dichloropropane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,3,5-Trimethylbenzene	ND		0.46	0.44		5	5.3	1	07/23/05 11:58 JC
1,3-Dichlorobenzene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,3-Dichloropropane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
1,4-Dichlorobenzene	ND		0.80	0.77		5	5.3	1	07/23/05 11:58 JC
2,2-Dichloropropane	ND		5.3	5.0	+	5	5.3	1	07/23/05 11:58 JC
2-Butanone	ND		3.0	2.8		20	21	1	07/23/05 11:58 JC
2-Chloroethyl vinyl ether	ND		2.6	2.5	+	10	11	1	07/23/05 11:58 JC
2-Chlorotoluene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
2-Hexanone	ND		1.8	1.7		10	11	1	07/23/05 11:58 JC
4-Chlorotoluene	ND		0.42	0.40		5	5.3	1	07/23/05 11:58 JC
4-Isopropyltoluene	ND		0.44	0.42		5	5.3	1	07/23/05 11:58 JC
4-Methyl-2-pentanone	ND		2.2	2.0		10	11	1	07/23/05 11:58 JC
Acetone	ND		14	13		100	110	1	07/23/05 11:58 JC
Acrylonitrile	ND		3.5	3.3		50	53	1	07/23/05 11:58 JC
Benzene	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
Bromobenzene	ND		1.1	1.0	+	5	5.3	1	07/23/05 11:58 JC
Bromochloromethane	ND		0.91	0.87		5	5.3	1	07/23/05 11:58 JC
Bromodichloromethane	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
Bromoform	ND		5.3	5.0	+	5	5.3	1	07/23/05 11:58 JC
Bromomethane	ND		2.4	2.3		10	11	1	07/23/05 11:58 JC
Carbon disulfide	ND		2.6	2.5	+	5	5.3	1	07/23/05 11:58 JC
Carbon tetrachloride	ND		1.1	1.0		5	5.3	1	07/23/05 11:58 JC
Chlorobenzene	ND		0.60	0.57		5	5.3	1	07/23/05 11:58 JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

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D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID SS-30-31'

Collected: 07/14/2005 9:20

SPL Sample ID: 05070676-07

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Chloroethane	ND		5.3	5.0 +	10	11	1	07/23/05 11:58	JC
Chloroform	ND		0.40	0.38	5	5.3	1	07/23/05 11:58	JC
Chloromethane	ND		2.6	2.5 +	10	11	1	07/23/05 11:58	JC
Dibromochloromethane	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
Dibromomethane	ND		0.93	0.88	5	5.3	1	07/23/05 11:58	JC
Dichlorodifluoromethane	ND		5.3	5.0 +	10	11	1	07/23/05 11:58	JC
Ethylbenzene	ND		0.45	0.43	5	5.3	1	07/23/05 11:58	JC
Hexachlorobutadiene	ND		2.8	2.7	5	5.3	1	07/23/05 11:58	JC
Isopropylbenzene	ND		0.23	0.22	5	5.3	1	07/23/05 11:58	JC
Methyl tert-butyl ether	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
Methylene chloride	ND		0.30	0.28	5	5.3	1	07/23/05 11:58	JC
Naphthalene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
n-Butylbenzene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
n-Propylbenzene	ND		0.41	0.39	5	5.3	1	07/23/05 11:58	JC
sec-Butylbenzene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
Styrene	ND		0.19	0.18	5	5.3	1	07/23/05 11:58	JC
tert-Butylbenzene	ND		0.50	0.48	5	5.3	1	07/23/05 11:58	JC
Tetrachloroethene	ND		1.5	1.4	5	5.3	1	07/23/05 11:58	JC
Toluene	ND		0.35	0.34	5	5.3	1	07/23/05 11:58	JC
Trichloroethene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
Trichlorofluoromethane	ND		1.3	1.3	5	5.3	1	07/23/05 11:58	JC
Vinyl acetate	ND		2.4	2.3	10	11	1	07/23/05 11:58	JC
Vinyl chloride	ND		2.6	2.5 +	10	11	1	07/23/05 11:58	JC
cis-1,2-Dichloroethene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
cis-1,3-Dichloropropene	ND		2.6	2.5 +	5	5.3	1	07/23/05 11:58	JC
m,p-Xylene	ND		1.1	1.0	5	5.3	1	07/23/05 11:58	JC
o-Xylene	ND		0.42	0.40	5	5.3	1	07/23/05 11:58	JC
trans-1,2-Dichloroethene	ND		0.76	0.72	5	5.3	1	07/23/05 11:58	JC
trans-1,3-Dichloropropene	ND		5.3	5.0 +	5	5.3	1	07/23/05 11:58	JC
Xylenes, Total	ND		0.42	0.40	5	5.3	1	07/23/05 11:58	JC
1,2-Dichloroethene (total)	ND		0.76	0.72	5	5.3	1	07/23/05 11:58	JC
Surr: 1,2-Dichloroethane-d4	80.0		% 64-130				1	07/23/05 11:58	JC
Surr: 4-Bromofluorobenzene	90.0		% 62-130				1	07/23/05 11:58	JC
Surr: Toluene-d8	98.0		% 70-140				1	07/23/05 11:58	JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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E - Estimated Value exceeds calibration curve

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D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25'

Collected: 07/14/2005 12:40 SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	SQL	PQL	DF	Date Analyzed	Analyst
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DIESEL RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Diesel Range Organics (C10-C28)	3700		28	0.49		5	280	50	07/21/05 3:04	NW
Surr: n-Pentacosane	D	*	%	20-154				50	07/21/05 3:04	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:03	T L	1.00

GASOLINE RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Gasoline Range Organics	3600		24	0.021		0.1	110	1000	07/20/05 19:55	RLH
Surr: 1,4-Difluorobenzene	104		%	63-142				1000	07/20/05 19:55	RLH
Surr: 4-Bromofluorobenzene	540 MI	*	%	50-159				1000	07/20/05 19:55	RLH

MOISTURE - ASTM

D2216

Units: %

Percent Moisture	11.2					0		1	07/19/05 17:59	E_S
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Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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J - Estimated Value between SQL and MQL (PQL)
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PQL - Adjusted MQL

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7/26/2005 11:46:49 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25'

Collected: 07/14/2005 12:40

SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/kg-dry			
1,2,4-Trichlorobenzene	ND		140	24	330	1900	5	07/22/05 19:00	GQ
1,2-Dichlorobenzene	ND		140	25	330	1900	5	07/22/05 19:00	GQ
1,2-Diphenylhydrazine	ND		95	17	330	1900	5	07/22/05 19:00	GQ
1,3-Dichlorobenzene	ND		120	22	330	1900	5	07/22/05 19:00	GQ
1,4-Dichlorobenzene	ND		130	23	330	1900	5	07/22/05 19:00	GQ
2,4,5-Trichlorophenol	ND		250	44	800	4500	5	07/22/05 19:00	GQ
2,4,6-Trichlorophenol	ND		94	17	330	1900	5	07/22/05 19:00	GQ
2,4-Dichlorophenol	ND		95	17	330	1900	5	07/22/05 19:00	GQ
2,4-Dimethylphenol	ND		110	20	330	1900	5	07/22/05 19:00	GQ
2,4-Dinitrophenol	ND		400	71	800	4500	5	07/22/05 19:00	GQ
2,4-Dinitrotoluene	ND		52	9.2	800	4500	5	07/22/05 19:00	GQ
2,6-Dinitrotoluene	ND		70	12	330	1900	5	07/22/05 19:00	GQ
2-Chloronaphthalene	ND		100	18	330	1900	5	07/22/05 19:00	GQ
2-Chlorophenol	ND		120	21	330	1900	5	07/22/05 19:00	GQ
2-Methylnaphthalene	120000		2200	20	330	37000	100	07/25/05 19:02	GQ
2-Nitroaniline	ND		59	10	800	4500	5	07/22/05 19:00	GQ
2-Nitrophenol	ND		100	18	330	1900	5	07/22/05 19:00	GQ
3,3'-Dichlorobenzidine	ND		110	20	330	1900	5	07/22/05 19:00	GQ
3-Nitroaniline	ND		56	10	800	4500	5	07/22/05 19:00	GQ
4,6-Dinitro-2-methylphenol	ND		110	20	800	4500	5	07/22/05 19:00	GQ
4-Bromophenyl phenyl ether	ND		48	8.6	330	1900	5	07/22/05 19:00	GQ
4-Chloro-3-methylphenol	ND		64	11	330	1900	5	07/22/05 19:00	GQ
4-Chloroaniline	ND		78	14	330	1900	5	07/22/05 19:00	GQ
4-Chlorophenyl phenyl ether	ND		55	9.8	330	1900	5	07/22/05 19:00	GQ
4-Nitroaniline	ND		120	22	800	4500	5	07/22/05 19:00	GQ
4-Nitrophenol	ND		140	25	800	4500	5	07/22/05 19:00	GQ
Acenaphthene	ND		88	16	330	1900	5	07/22/05 19:00	GQ
Acenaphthylene	ND		84	15	330	1900	5	07/22/05 19:00	GQ
Aniline	ND		90	16	330	1900	5	07/22/05 19:00	GQ
Anthracene	360	J	110	19	330	1900	5	07/22/05 19:00	GQ
Benz(a)anthracene	ND		87	15	330	1900	5	07/22/05 19:00	GQ
Benzo(a)pyrene	ND		97	17	330	1900	5	07/22/05 19:00	GQ
Benzo(b)fluoranthene	ND		75	13	330	1900	5	07/22/05 19:00	GQ
Benzo(g,h,i)perylene	ND		150	27	330	1900	5	07/22/05 19:00	GQ
Benzo(k)fluoranthene	ND		65	12	330	1900	5	07/22/05 19:00	GQ
Benzoic acid	ND		66	12	1600	9000	5	07/22/05 19:00	GQ
Benzyl alcohol	ND		110	20	330	1900	5	07/22/05 19:00	GQ
Bis(2-chloroethoxy)methane	ND		140	24	330	1900	5	07/22/05 19:00	GQ
Bis(2-chloroethyl)ether	ND		150	26	330	1900	5	07/22/05 19:00	GQ

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
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PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25¹

Collected: 07/14/2005 12:40

SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
Bis(2-chloroisopropyl)ether	ND		120	20	330	1900	5	07/22/05 19:00	GQ
Bis(2-ethylhexyl)phthalate	ND		99	18	330	1900	5	07/22/05 19:00	GQ
Butyl benzyl phthalate	ND		95	17	330	1900	5	07/22/05 19:00	GQ
Carbazole	ND		130	22	330	1900	5	07/22/05 19:00	GQ
Chrysene	ND		62	11	330	1900	5	07/22/05 19:00	GQ
Dibenz(a,h)anthracene	ND		560	100 +	330	1900	5	07/22/05 19:00	GQ
Dibenzofuran	ND		86	15	330	1900	5	07/22/05 19:00	GQ
Diethyl phthalate	ND		140	25 +	330	1900	5	07/22/05 19:00	GQ
Dimethyl phthalate	ND		58	10	330	1900	5	07/22/05 19:00	GQ
Di-n-butyl phthalate	ND		140	25	330	1900	5	07/22/05 19:00	GQ
Di-n-octyl phthalate	ND		46	8.1	330	1900	5	07/22/05 19:00	GQ
Fluoranthene	250	J	150	26	330	1900	5	07/22/05 19:00	GQ
Fluorene	1200	J	70	12	330	1900	5	07/22/05 19:00	GQ
Hexachlorobenzene	ND		86	15	330	1900	5	07/22/05 19:00	GQ
Hexachlorobutadiene	ND		150	27	330	1900	5	07/22/05 19:00	GQ
Hexachlorocyclopentadiene	ND		100	18	330	1900	5	07/22/05 19:00	GQ
Hexachloroethane	ND		150	26	330	1900	5	07/22/05 19:00	GQ
Indeno(1,2,3-cd)pyrene	ND		120	21	330	1900	5	07/22/05 19:00	GQ
Isophorone	ND		100	18	330	1900	5	07/22/05 19:00	GQ
Naphthalene	140000		2400	21	330	37000	100	07/25/05 19:02	GQ
Nitrobenzene	ND		120	21	330	1900	5	07/22/05 19:00	GQ
N-Nitrosodi-n-propylamine	ND		95	17	330	1900	5	07/22/05 19:00	GQ
N-Nitrosodiphenylamine	ND		190	34	330	1900	5	07/22/05 19:00	GQ
Pentachlorophenol	ND		190	33	800	4500	5	07/22/05 19:00	GQ
Phenanthrene	2500		86	15	330	1900	5	07/22/05 19:00	GQ
Phenol	ND		120	22	330	1900	5	07/22/05 19:00	GQ
Pyrene	250	J	160	29	330	1900	5	07/22/05 19:00	GQ
Pyridine	ND		150	26	330	1900	5	07/22/05 19:00	GQ
2-Methylphenol	ND		120	20	330	1900	5	07/22/05 19:00	GQ
3 & 4-Methylphenol	ND		96	17	330	1900	5	07/22/05 19:00	GQ
Surr: 2,4,6-Tribromophenol	56.0		%	19-135			5	07/22/05 19:00	GQ
Surr: 2,4,6-Tribromophenol	D		%	19-135			100	07/25/05 19:02	GQ
Surr: 2-Fluorobiphenyl	54.1		%	15-140			5	07/22/05 19:00	GQ
Surr: 2-Fluorobiphenyl	D		%	15-140			100	07/25/05 19:02	GQ
Surr: 2-Fluorophenol	24.4		%	15-122			5	07/22/05 19:00	GQ
Surr: 2-Fluorophenol	D		%	15-122			100	07/25/05 19:02	GQ
Surr: Nitrobenzene-d5	D		%	10-134			100	07/25/05 19:02	GQ
Surr: Nitrobenzene-d5	64.7		%	10-134			5	07/22/05 19:00	GQ
Surr: Phenol-d5	D		%	10-123			100	07/25/05 19:02	GQ
Surr: Phenol-d5	39.6		%	10-123			5	07/22/05 19:00	GQ
Surr: Terphenyl-d14	D		%	18-166			100	07/25/05 19:02	GQ

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25⁺ Collected: 07/14/2005 12:40 SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Surr: Terphenyl-d14	64.7	%	18-166				5	07/22/05 19:00	GQ

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:23	T L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
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7/26/2005 11:46:50 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25'

Collected: 07/14/2005 12:40

SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/kg-dry			
1,1,1,2-Tetrachloroethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,1,1-Trichloroethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,1,2,2-Tetrachloroethane	ND		0.50	0.44		5	5.6	1	07/19/05 21:52 JC
1,1,2-Trichloroethane	ND		1.2	1.0		5	5.6	1	07/19/05 21:52 JC
1,1-Dichloroethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,1-Dichloroethene	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,1-Dichloropropene	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,2,3-Trichlorobenzene	ND		5.6	5.0	+	5	5.6	1	07/19/05 21:52 JC
1,2,3-Trichloropropane	ND		0.67	0.59		5	5.6	1	07/19/05 21:52 JC
1,2,4-Trichlorobenzene	ND		5.6	5.0	+	5	5.6	1	07/19/05 21:52 JC
1,2,4-Trimethylbenzene	590000		2500	0.44		5	28000	5000	07/23/05 20:24 C_V
1,2-Dibromo-3-chloropropane	ND		2.1	1.9		5	5.6	1	07/19/05 21:52 JC
1,2-Dibromoethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,2-Dichlorobenzene	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,2-Dichloroethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,2-Dichloropropane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,3,5-Trimethylbenzene	99000		2500	0.44		5	28000	5000	07/23/05 20:24 C_V
1,3-Dichlorobenzene	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,3-Dichloropropane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
1,4-Dichlorobenzene	ND		0.86	0.77		5	5.6	1	07/19/05 21:52 JC
2,2-Dichloropropane	ND		5.6	5.0	+	5	5.6	1	07/19/05 21:52 JC
2-Butanone	ND		3.2	2.8		20	23	1	07/19/05 21:52 JC
2-Chloroethyl vinyl ether	ND		2.8	2.5	+	10	11	1	07/19/05 21:52 JC
2-Chlorotoluene	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
2-Hexanone	ND		1.9	1.7		10	11	1	07/19/05 21:52 JC
4-Chlorotoluene	ND		0.45	0.40		5	5.6	1	07/19/05 21:52 JC
4-Isopropyltoluene	18000 J	J	2400	0.42		5	28000	5000	07/23/05 20:24 C_V
4-Methyl-2-pentanone	ND		2.3	2.0		10	11	1	07/19/05 21:52 JC
Acetone	ND		15	13		100	110	1	07/19/05 21:52 JC
Acrylonitrile	ND		3.7	3.3		50	56	1	07/19/05 21:52 JC
Benzene	110		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
Bromobenzene	ND		1.1	1.0	+	5	5.6	1	07/19/05 21:52 JC
Bromochloromethane	ND		0.98	0.87		5	5.6	1	07/19/05 21:52 JC
Bromodichloromethane	ND		2.8	2.5	+	5	5.6	1	07/19/05 21:52 JC
Bromoform	ND		5.6	5.0	+	5	5.6	1	07/19/05 21:52 JC
Bromomethane	ND		2.6	2.3		10	11	1	07/19/05 21:52 JC
Carbon disulfide	6200 J	J	14000	2.5	+	5	28000	5000	07/23/05 20:24 C_V
Carbon tetrachloride	ND		1.1	1.0		5	5.6	1	07/19/05 21:52 JC
Chlorobenzene	ND		0.65	0.57		5	5.6	1	07/19/05 21:52 JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MS-24-25'

Collected: 07/14/2005 12:40 SPL Sample ID: 05070676-08

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
Chloroethane	ND		5.6	5.0 +	10	11	1	07/19/05 21:52	JC
Chloroform	ND		0.43	0.38	5	5.6	1	07/19/05 21:52	JC
Chloromethane	ND		2.8	2.5 +	10	11	1	07/19/05 21:52	JC
Dibromochloromethane	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
Dibromomethane	ND		1.0	0.88	5	5.6	1	07/19/05 21:52	JC
Dichlorodifluoromethane	ND		5.6	5.0 +	10	11	1	07/19/05 21:52	JC
Ethylbenzene	39000		2400	0.43	5	28000	5000	07/23/05 20:24	C_V
Hexachlorobutadiene	ND		3.1	2.7	5	5.6	1	07/19/05 21:52	JC
Isopropylbenzene	17000 J	J	1200	0.22	5	28000	5000	07/23/05 20:24	C_V
Methyl tert-butyl ether	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
Methylene chloride	ND		0.32	0.28	5	5.6	1	07/19/05 21:52	JC
Naphthalene	210000		14000	2.5 +	5	28000	5000	07/23/05 20:24	C_V
n-Butylbenzene	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
n-Propylbenzene	74000		2200	0.39	5	28000	5000	07/23/05 20:24	C_V
sec-Butylbenzene	38000		14000	2.5 +	5	28000	5000	07/23/05 20:24	C_V
Styrene	ND		0.20	0.18	5	5.6	1	07/19/05 21:52	JC
tert-Butylbenzene	ND		0.54	0.48	5	5.6	1	07/19/05 21:52	JC
Tetrachloroethene	ND		1.6	1.4	5	5.6	1	07/19/05 21:52	JC
Toluene	230000		1900	0.34	5	28000	5000	07/23/05 20:24	C_V
Trichloroethene	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
Trichlorofluoromethane	ND		1.4	1.3	5	5.6	1	07/19/05 21:52	JC
Vinyl acetate	ND		2.6	2.3	10	11	1	07/19/05 21:52	JC
Vinyl chloride	ND		2.8	2.5 +	10	11	1	07/19/05 21:52	JC
cis-1,2-Dichloroethene	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
cis-1,3-Dichloropropene	ND		2.8	2.5 +	5	5.6	1	07/19/05 21:52	JC
m,p-Xylene	230000		5800	1.0	5	28000	5000	07/23/05 20:24	C_V
o-Xylene	100000		2300	0.40	5	28000	5000	07/23/05 20:24	C_V
trans-1,2-Dichloroethene	ND		0.81	0.72	5	5.6	1	07/19/05 21:52	JC
trans-1,3-Dichloropropene	ND		5.6	5.0 +	5	5.6	1	07/19/05 21:52	JC
Xylenes, Total	330000		2300	0.40	5	28000	5000	07/23/05 20:24	C_V
1,2-Dichloroethene (total)	ND		0.81	0.72	5	5.6	1	07/19/05 21:52	JC
Surr: 1,2-Dichloroethane-d4	84.0		%	64-130			1	07/19/05 21:52	JC
Surr: 1,2-Dichloroethane-d4	96.0		%	64-130			5000	07/23/05 20:24	C_V
Surr: 4-Bromofluorobenzene	96.0		%	62-130			5000	07/23/05 20:24	C_V
Surr: 4-Bromofluorobenzene	360 MI	*	%	62-130			1	07/19/05 21:52	JC
Surr: Toluene-d8	142 MI	*	%	70-140			1	07/19/05 21:52	JC
Surr: Toluene-d8	92.0		%	70-140			5000	07/23/05 20:24	C_V

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-14-05

Collected: 07/14/2005 13:45 SPL Sample ID: 05070676-10

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analys
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND	0.56	0.56		5	5	1	07/22/05 16:14	L_L
1,1,1-Trichloroethane	ND	0.86	0.86		5	5	1	07/22/05 16:14	L_L
1,1,2,2-Tetrachloroethane	ND	0.80	0.80		5	5	1	07/22/05 16:14	L_L
1,1,2-Trichloroethane	ND	0.83	0.83		5	5	1	07/22/05 16:14	L_L
1,1-Dichloroethane	ND	0.34	0.34		5	5	1	07/22/05 16:14	L_L
1,1-Dichloroethene	ND	0.95	0.95		5	5	1	07/22/05 16:14	L_L
1,1-Dichloropropene	ND	0.81	0.81		5	5	1	07/22/05 16:14	L_L
1,2,3-Trichlorobenzene	ND	0.72	0.72		5	5	1	07/22/05 16:14	L_L
1,2,3-Trichloropropane	ND	0.87	0.87		5	5	1	07/22/05 16:14	L_L
1,2,4-Trichlorobenzene	ND	0.36	0.36		5	5	1	07/22/05 16:14	L_L
1,2,4-Trimethylbenzene	ND	0.39	0.39		5	5	1	07/22/05 16:14	L_L
1,2-Dibromo-3-chloropropane	ND	0.90	0.90		5	5	1	07/22/05 16:14	L_L
1,2-Dibromoethane	ND	0.92	0.92		5	5	1	07/22/05 16:14	L_L
1,2-Dichlorobenzene	ND	0.49	0.49		5	5	1	07/22/05 16:14	L_L
1,2-Dichloroethane	ND	0.43	0.43		5	5	1	07/22/05 16:14	L_L
1,2-Dichloropropane	ND	0.57	0.57		5	5	1	07/22/05 16:14	L_L
1,3,5-Trimethylbenzene	ND	0.44	0.44		5	5	1	07/22/05 16:14	L_L
1,3-Dichlorobenzene	ND	0.74	0.74		5	5	1	07/22/05 16:14	L_L
1,3-Dichloropropane	ND	0.44	0.44		5	5	1	07/22/05 16:14	L_L
1,4-Dichlorobenzene	ND	0.62	0.62		5	5	1	07/22/05 16:14	L_L
2,2-Dichloropropane	ND	0.64	0.64		5	5	1	07/22/05 16:14	L_L
2-Butanone	ND	2.6	2.6		20	20	1	07/22/05 16:14	L_L
2-Chloroethyl vinyl ether	ND	1.1	1.1		10	10	1	07/22/05 16:14	L_L
2-Chlorotoluene	ND	0.51	0.51		5	5	1	07/22/05 16:14	L_L
2-Hexanone	ND	1.8	1.8		10	10	1	07/22/05 16:14	L_L
4-Chlorotoluene	ND	0.87	0.87		5	5	1	07/22/05 16:14	L_L
4-Isopropyltoluene	ND	0.35	0.35		5	5	1	07/22/05 16:14	L_L
4-Methyl-2-pentanone	ND	0.44	0.44		10	10	1	07/22/05 16:14	L_L
Acetone	ND	8.0	8.0		100	100	1	07/22/05 16:14	L_L
Acrylonitrile	ND	4.6	4.6		50	50	1	07/22/05 16:14	L_L
Benzene	ND	0.44	0.44		5	5	1	07/22/05 16:14	L_L
Bromobenzene	ND	0.38	0.38		5	5	1	07/22/05 16:14	L_L
Bromochloromethane	ND	0.93	0.93		5	5	1	07/22/05 16:14	L_L
Bromodichloromethane	ND	0.24	0.24		5	5	1	07/22/05 16:14	L_L
Bromoform	ND	0.60	0.60		5	5	1	07/22/05 16:14	L_L
Bromomethane	ND	2.0	2.0		10	10	1	07/22/05 16:14	L_L
Carbon disulfide	ND	0.62	0.62		5	5	1	07/22/05 16:14	L_L
Carbon tetrachloride	ND	1.1	1.1		5	5	1	07/22/05 16:14	L_L
Chlorobenzene	ND	0.42	0.42		5	5	1	07/22/05 16:14	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID FB-7-14-05

Collected: 07/14/2005 13:45 SPL Sample ID: 05070676-10

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 16:14	L_L
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 16:14	L_L
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 16:14	L_L
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 16:14	L_L
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 16:14	L_L
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 16:14	L_L
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 16:14	L_L
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 16:14	L_L
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 16:14	L_L
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 16:14	L_L
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 16:14	L_L
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 16:14	L_L
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 16:14	L_L
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 16:14	L_L
sec-Butylbenzene	ND		2.5	2.5	5	5	1	07/22/05 16:14	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 16:14	L_L
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 16:14	L_L
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 16:14	L_L
Toluene	ND		0.53	0.53	5	5	1	07/22/05 16:14	L_L
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 16:14	L_L
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 16:14	L_L
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 16:14	L_L
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 16:14	L_L
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 16:14	L_L
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 16:14	L_L
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 16:14	L_L
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 16:14	L_L
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 16:14	L_L
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 16:14	L_L
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 16:14	L_L
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 16:14	L_L
Surr: 1,2-Dichloroethane-d4	94.0		%	62-130			1	07/22/05 16:14	L_L
Surr: 4-Bromofluorobenzene	100		%	70-130			1	07/22/05 16:14	L_L
Surr: Toluene-d8	98.0		%	74-122			1	07/22/05 16:14	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-W

Collected: 07/13/2005 17:40 SPL Sample ID: 05070676-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
DIESEL RANGE ORGANICS				SW8015B		Units: mg/L			
Diesel Range Organics (C10-C28)	ND		0.058	0.058	1	1	1	07/19/05 22:33	NW
Surr: n-Pentacosane	50.8		% 39-142				1	07/19/05 22:33	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/17/2005 14:34	K L	1.00

GASOLINE RANGE ORGANICS				SW8015B		Units: mg/L			
Gasoline Range Organics	ND		0.030	0.030	0.1	0.1	1	07/25/05 11:51	DMN
Surr: 1,4-Difluorobenzene	99.7		% 60-155				1	07/25/05 11:51	DMN
Surr: 4-Bromofluorobenzene	105		% 50-158				1	07/25/05 11:51	DMN

MERCURY, TOTAL				SW7470A		Units: mg/L			
Mercury	ND		0.0000500	0.0000500	0.0002	0.0002	1	07/20/05 9:54	A_H

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/19/2005 13:30	A_H	1.00

METALS BY METHOD 6010B, TOTAL				SW6010B		Units: mg/L			
Arsenic	ND		0.00362	0.00362	0.005	0.005	1	07/22/05 15:23	NS
Barium	ND		0.00192	0.00192	0.005	0.005	1	07/22/05 15:23	NS
Cadmium	ND		0.000300	0.000300	0.003	0.003	1	07/22/05 15:23	NS
Chromium	ND		0.00380	0.00380	0.005	0.005	1	07/22/05 15:23	NS
Lead	ND		0.00140	0.00140	0.005	0.005	1	07/22/05 15:23	NS
Selenium	ND		0.00474	0.00474	0.005	0.005	1	07/22/05 15:23	NS
Silver	ND		0.00100	0.00100	0.005	0.005	1	07/22/05 15:23	NS

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	07/21/2005 8:00	MW	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-W

Collected: 07/13/2005 17:40 SPL Sample ID: 05070676-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/L			
1,2,4-Trichlorobenzene	ND	0.42	0.42		5	5	1	07/21/05 16:26	E_R
1,2-Dichlorobenzene	ND	0.41	0.41		5	5	1	07/21/05 16:26	E_R
1,2-Diphenylhydrazine	ND	0.44	0.44		10	10	1	07/21/05 16:26	E_R
1,3-Dichlorobenzene	ND	0.40	0.40		5	5	1	07/21/05 16:26	E_R
1,4-Dichlorobenzene	ND	0.37	0.37		5	5	1	07/21/05 16:26	E_R
2,4,5-Trichlorophenol	ND	0.34	0.34		10	10	1	07/21/05 16:26	E_R
2,4,6-Trichlorophenol	ND	0.33	0.33		5	5	1	07/21/05 16:26	E_R
2,4-Dichlorophenol	ND	0.37	0.37		5	5	1	07/21/05 16:26	E_R
2,4-Dimethylphenol	ND	0.31	0.31		5	5	1	07/21/05 16:26	E_R
2,4-Dinitrophenol	ND	1.7	1.7		25	25	1	07/21/05 16:26	E_R
2,4-Dinitrotoluene	ND	0.31	0.31		5	5	1	07/21/05 16:26	E_R
2,6-Dinitrotoluene	ND	0.36	0.36		5	5	1	07/21/05 16:26	E_R
2-Chloronaphthalene	ND	0.29	0.29		5	5	1	07/21/05 16:26	E_R
2-Chlorophenol	ND	0.40	0.40		5	5	1	07/21/05 16:26	E_R
2-Methylnaphthalene	ND	0.39	0.39		5	5	1	07/21/05 16:26	E_R
2-Nitroaniline	ND	1.1	1.1		25	25	1	07/21/05 16:26	E_R
2-Nitrophenol	ND	0.36	0.36		5	5	1	07/21/05 16:26	E_R
3,3'-Dichlorobenzidine	ND	0.93	0.93		10	10	1	07/21/05 16:26	E_R
3-Nitroaniline	ND	0.32	0.32		25	25	1	07/21/05 16:26	E_R
4,6-Dinitro-2-methylphenol	ND	1.5	1.5		25	25	1	07/21/05 16:26	E_R
4-Bromophenyl phenyl ether	ND	0.30	0.30		5	5	1	07/21/05 16:26	E_R
4-Chloro-3-methylphenol	ND	0.31	0.31		5	5	1	07/21/05 16:26	E_R
4-Chloroaniline	ND	0.35	0.35		5	5	1	07/21/05 16:26	E_R
4-Chlorophenyl phenyl ether	ND	0.35	0.35		5	5	1	07/21/05 16:26	E_R
4-Nitroaniline	ND	0.30	0.30		25	25	1	07/21/05 16:26	E_R
4-Nitrophenol	ND	0.83	0.83		25	25	1	07/21/05 16:26	E_R
Acenaphthene	ND	0.31	0.31		5	5	1	07/21/05 16:26	E_R
Acenaphthylene	ND	0.29	0.29		5	5	1	07/21/05 16:26	E_R
Aniline	ND	0.22	0.22		5	5	1	07/21/05 16:26	E_R
Anthracene	ND	0.36	0.36		5	5	1	07/21/05 16:26	E_R
Benz(a)anthracene	ND	0.27	0.27		5	5	1	07/21/05 16:26	E_R
Benzo(a)pyrene	ND	0.30	0.30		5	5	1	07/21/05 16:26	E_R
Benzo(b)fluoranthene	ND	0.36	0.36		5	5	1	07/21/05 16:26	E_R
Benzo(g,h,i)perylene	ND	0.35	0.35		5	5	1	07/21/05 16:26	E_R
Benzo(k)fluoranthene	ND	0.29	0.29		5	5	1	07/21/05 16:26	E_R
Benzoic acid	ND	0.32	0.32		25	25	1	07/21/05 16:26	E_R
Benzyl alcohol	ND	0.66	0.66		5	5	1	07/21/05 16:26	E_R
Bis(2-chloroethoxy)methane	ND	0.33	0.33		5	5	1	07/21/05 16:26	E_R
Bis(2-chloroethyl)ether	ND	0.30	0.30		5	5	1	07/21/05 16:26	E_R

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-W

Collected: 07/13/2005 17:40 SPL Sample ID: 05070676-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst	
Bis(2-chloroisopropyl)ether	ND		0.34	0.34	5	5	1	07/21/05 16:26	E_R	
Bis(2-ethylhexyl)phthalate	ND		0.37	0.37	5	5	1	07/21/05 16:26	E_R	
Butyl benzyl phthalate	ND		0.35	0.35	5	5	1	07/21/05 16:26	E_R	
Carbazole	ND		0.37	0.37	5	5	1	07/21/05 16:26	E_R	
Chrysene	ND		0.35	0.35	5	5	1	07/21/05 16:26	E_R	
Dibenz(a,h)anthracene	ND		5.0	5.0	+	5	5	1	07/21/05 16:26	E_R
Dibenzofuran	ND		0.34	0.34	5	5	1	07/21/05 16:26	E_R	
Diethyl phthalate	ND		0.33	0.33	5	5	1	07/21/05 16:26	E_R	
Dimethyl phthalate	ND		0.23	0.23	5	5	1	07/21/05 16:26	E_R	
Di-n-butyl phthalate	ND		0.31	0.31	5	5	1	07/21/05 16:26	E_R	
Di-n-octyl phthalate	ND		0.37	0.37	5	5	1	07/21/05 16:26	E_R	
Fluoranthene	ND		0.43	0.43	5	5	1	07/21/05 16:26	E_R	
Fluorene	ND		0.14	0.14	5	5	1	07/21/05 16:26	E_R	
Hexachlorobenzene	ND		0.37	0.37	5	5	1	07/21/05 16:26	E_R	
Hexachlorobutadiene	ND		0.36	0.36	5	5	1	07/21/05 16:26	E_R	
Hexachlorocyclopentadiene	ND		0.32	0.32	5	5	1	07/21/05 16:26	E_R	
Hexachloroethane	ND		0.34	0.34	5	5	1	07/21/05 16:26	E_R	
Indeno(1,2,3-cd)pyrene	ND		2.5	2.5	+	5	5	1	07/21/05 16:26	E_R
Isophorone	ND		0.17	0.17	5	5	1	07/21/05 16:26	E_R	
Naphthalene	ND		0.46	0.46	5	5	1	07/21/05 16:26	E_R	
Nitrobenzene	ND		0.34	0.34	5	5	1	07/21/05 16:26	E_R	
N-Nitrosodi-n-propylamine	ND		0.31	0.31	5	5	1	07/21/05 16:26	E_R	
N-Nitrosodiphenylamine	ND		0.33	0.33	5	5	1	07/21/05 16:26	E_R	
Pentachlorophenol	ND		0.29	0.29	25	25	1	07/21/05 16:26	E_R	
Phenanthrene	ND		0.34	0.34	5	5	1	07/21/05 16:26	E_R	
Phenol	ND		0.30	0.30	5	5	1	07/21/05 16:26	E_R	
Pyrene	ND		0.31	0.31	5	5	1	07/21/05 16:26	E_R	
Pyridine	ND		0.39	0.39	5	5	1	07/21/05 16:26	E_R	
2-Methylphenol	ND		0.31	0.31	5	5	1	07/21/05 16:26	E_R	
3 & 4-Methylphenol	ND		0.30	0.30	5	5	1	07/21/05 16:26	E_R	
Surr: 2,4,6-Tribromophenol	53.3	%	10-123				1	07/21/05 16:26	E_R	
Surr: 2-Fluorobiphenyl	62.0	%	23-116				1	07/21/05 16:26	E_R	
Surr: 2-Fluorophenol	54.7	%	16-110				1	07/21/05 16:26	E_R	
Surr: Nitrobenzene-d5	60.0	%	21-114				1	07/21/05 16:26	E_R	
Surr: Phenol-d5	56.0	%	10-110				1	07/21/05 16:26	E_R	
Surr: Terphenyl-d14	64.0	%	22-141				1	07/21/05 16:26	E_R	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/16/2005 13:44	K L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-W

Collected: 07/13/2005 17:40 SPL Sample ID: 05070676-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND	0.56	0.56		5	5	1	07/22/05 16:43	L_L
1,1,1-Trichloroethane	ND	0.86	0.86		5	5	1	07/22/05 16:43	L_L
1,1,2,2-Tetrachloroethane	ND	0.80	0.80		5	5	1	07/22/05 16:43	L_L
1,1,2-Trichloroethane	ND	0.83	0.83		5	5	1	07/22/05 16:43	L_L
1,1-Dichloroethane	ND	0.34	0.34		5	5	1	07/22/05 16:43	L_L
1,1-Dichloroethene	ND	0.95	0.95		5	5	1	07/22/05 16:43	L_L
1,1-Dichloropropene	ND	0.81	0.81		5	5	1	07/22/05 16:43	L_L
1,2,3-Trichlorobenzene	ND	0.72	0.72		5	5	1	07/22/05 16:43	L_L
1,2,3-Trichloropropane	ND	0.87	0.87		5	5	1	07/22/05 16:43	L_L
1,2,4-Trichlorobenzene	ND	0.36	0.36		5	5	1	07/22/05 16:43	L_L
1,2,4-Trimethylbenzene	ND	0.39	0.39		5	5	1	07/22/05 16:43	L_L
1,2-Dibromo-3-chloropropane	ND	0.90	0.90		5	5	1	07/22/05 16:43	L_L
1,2-Dibromoethane	ND	0.92	0.92		5	5	1	07/22/05 16:43	L_L
1,2-Dichlorobenzene	ND	0.49	0.49		5	5	1	07/22/05 16:43	L_L
1,2-Dichloroethane	ND	0.43	0.43		5	5	1	07/22/05 16:43	L_L
1,2-Dichloropropane	ND	0.57	0.57		5	5	1	07/22/05 16:43	L_L
1,3,5-Trimethylbenzene	ND	0.44	0.44		5	5	1	07/22/05 16:43	L_L
1,3-Dichlorobenzene	ND	0.74	0.74		5	5	1	07/22/05 16:43	L_L
1,3-Dichloropropane	ND	0.44	0.44		5	5	1	07/22/05 16:43	L_L
1,4-Dichlorobenzene	ND	0.62	0.62		5	5	1	07/22/05 16:43	L_L
2,2-Dichloropropane	ND	0.64	0.64		5	5	1	07/22/05 16:43	L_L
2-Butanone	ND	2.6	2.6		20	20	1	07/22/05 16:43	L_L
2-Chloroethyl vinyl ether	ND	1.1	1.1		10	10	1	07/22/05 16:43	L_L
2-Chlorotoluene	ND	0.51	0.51		5	5	1	07/22/05 16:43	L_L
2-Hexanone	ND	1.8	1.8		10	10	1	07/22/05 16:43	L_L
4-Chlorotoluene	ND	0.87	0.87		5	5	1	07/22/05 16:43	L_L
4-Isopropyltoluene	ND	0.35	0.35		5	5	1	07/22/05 16:43	L_L
4-Methyl-2-pentanone	ND	0.44	0.44		10	10	1	07/22/05 16:43	L_L
Acetone	ND	8.0	8.0		100	100	1	07/22/05 16:43	L_L
Acrylonitrile	ND	4.6	4.6		50	50	1	07/22/05 16:43	L_L
Benzene	ND	0.44	0.44		5	5	1	07/22/05 16:43	L_L
Bromobenzene	ND	0.38	0.38		5	5	1	07/22/05 16:43	L_L
Bromochloromethane	ND	0.93	0.93		5	5	1	07/22/05 16:43	L_L
Bromodichloromethane	ND	0.24	0.24		5	5	1	07/22/05 16:43	L_L
Bromoform	ND	0.60	0.60		5	5	1	07/22/05 16:43	L_L
Bromomethane	ND	2.0	2.0		10	10	1	07/22/05 16:43	L_L
Carbon disulfide	ND	0.62	0.62		5	5	1	07/22/05 16:43	L_L
Carbon tetrachloride	ND	1.1	1.1		5	5	1	07/22/05 16:43	L_L
Chlorobenzene	ND	0.42	0.42		5	5	1	07/22/05 16:43	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-W

Collected: 07/13/2005 17:40

SPL Sample ID: 05070676-11

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analys
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 16:43	L_L
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 16:43	L_L
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 16:43	L_L
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 16:43	L_L
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 16:43	L_L
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 16:43	L_L
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 16:43	L_L
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 16:43	L_L
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 16:43	L_L
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 16:43	L_L
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 16:43	L_L
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 16:43	L_L
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 16:43	L_L
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 16:43	L_L
sec-Butylbenzene	ND		2.5	2.5 +	5	5	1	07/22/05 16:43	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 16:43	L_L
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 16:43	L_L
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 16:43	L_L
Toluene	1	J	0.53	0.53	5	5	1	07/22/05 16:43	L_L
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 16:43	L_L
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 16:43	L_L
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 16:43	L_L
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 16:43	L_L
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 16:43	L_L
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 16:43	L_L
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 16:43	L_L
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 16:43	L_L
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 16:43	L_L
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 16:43	L_L
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 16:43	L_L
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 16:43	L_L
Surr: 1,2-Dichloroethane-d4	90.0	%	62-130				1	07/22/05 16:43	L_L
Surr: 4-Bromofluorobenzene	100	%	70-130				1	07/22/05 16:43	L_L
Surr: Toluene-d8	98.0	%	74-122				1	07/22/05 16:43	L_L

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J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
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PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-S

Collected: 07/14/2005 16:00 SPL Sample ID: 05070676-12

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
DIESEL RANGE ORGANICS				SW8015B		Units: mg/L			
Diesel Range Organics (C10-C28)	ND		0.058	0.058	1	1	1	07/19/05 23:16	NW
Surr: n-Pentacosane	58.2		%	39-142			1	07/19/05 23:16	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/17/2005 14:34	K L	1.00

GASOLINE RANGE ORGANICS				SW8015B		Units: mg/L			
Gasoline Range Organics	ND		0.030	0.030	0.1	0.1	1	07/25/05 12:18	DMN
Surr: 1,4-Difluorobenzene	99.7		%	60-155			1	07/25/05 12:18	DMN
Surr: 4-Bromofluorobenzene	106		%	50-158			1	07/25/05 12:18	DMN

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-S

Collected: 07/14/2005 16:00

SPL Sample ID: 05070676-12

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/L			
1,2,4-Trichlorobenzene	ND	0.42	0.42		5	5	1	07/21/05 17:01	E_R
1,2-Dichlorobenzene	ND	0.41	0.41		5	5	1	07/21/05 17:01	E_R
1,2-Diphenylhydrazine	ND	0.44	0.44		10	10	1	07/21/05 17:01	E_R
1,3-Dichlorobenzene	ND	0.40	0.40		5	5	1	07/21/05 17:01	E_R
1,4-Dichlorobenzene	ND	0.37	0.37		5	5	1	07/21/05 17:01	E_R
2,4,5-Trichlorophenol	ND	0.34	0.34		10	10	1	07/21/05 17:01	E_R
2,4,6-Trichlorophenol	ND	0.33	0.33		5	5	1	07/21/05 17:01	E_R
2,4-Dichlorophenol	ND	0.37	0.37		5	5	1	07/21/05 17:01	E_R
2,4-Dimethylphenol	ND	0.31	0.31		5	5	1	07/21/05 17:01	E_R
2,4-Dinitrophenol	ND	1.7	1.7		25	25	1	07/21/05 17:01	E_R
2,4-Dinitrotoluene	ND	0.31	0.31		5	5	1	07/21/05 17:01	E_R
2,6-Dinitrotoluene	ND	0.36	0.36		5	5	1	07/21/05 17:01	E_R
2-Chloronaphthalene	ND	0.29	0.29		5	5	1	07/21/05 17:01	E_R
2-Chlorophenol	ND	0.40	0.40		5	5	1	07/21/05 17:01	E_R
2-Methylnaphthalene	ND	0.39	0.39		5	5	1	07/21/05 17:01	E_R
2-Nitroaniline	ND	1.1	1.1		25	25	1	07/21/05 17:01	E_R
2-Nitrophenol	ND	0.36	0.36		5	5	1	07/21/05 17:01	E_R
3,3'-Dichlorobenzidine	ND	0.93	0.93		10	10	1	07/21/05 17:01	E_R
3-Nitroaniline	ND	0.32	0.32		25	25	1	07/21/05 17:01	E_R
4,6-Dinitro-2-methylphenol	ND	1.5	1.5		25	25	1	07/21/05 17:01	E_R
4-Bromophenyl phenyl ether	ND	0.30	0.30		5	5	1	07/21/05 17:01	E_R
4-Chloro-3-methylphenol	ND	0.31	0.31		5	5	1	07/21/05 17:01	E_R
4-Chloroaniline	ND	0.35	0.35		5	5	1	07/21/05 17:01	E_R
4-Chlorophenyl phenyl ether	ND	0.35	0.35		5	5	1	07/21/05 17:01	E_R
4-Nitroaniline	ND	0.30	0.30		25	25	1	07/21/05 17:01	E_R
4-Nitrophenol	ND	0.83	0.83		25	25	1	07/21/05 17:01	E_R
Acenaphthene	ND	0.31	0.31		5	5	1	07/21/05 17:01	E_R
Acenaphthylene	ND	0.29	0.29		5	5	1	07/21/05 17:01	E_R
Aniline	ND	0.22	0.22		5	5	1	07/21/05 17:01	E_R
Anthracene	ND	0.36	0.36		5	5	1	07/21/05 17:01	E_R
Benz(a)anthracene	ND	0.27	0.27		5	5	1	07/21/05 17:01	E_R
Benzo(a)pyrene	ND	0.30	0.30		5	5	1	07/21/05 17:01	E_R
Benzo(b)fluoranthene	ND	0.36	0.36		5	5	1	07/21/05 17:01	E_R
Benzo(g,h,i)perylene	ND	0.35	0.35		5	5	1	07/21/05 17:01	E_R
Benzo(k)fluoranthene	ND	0.29	0.29		5	5	1	07/21/05 17:01	E_R
Benzoic acid	ND	0.32	0.32		25	25	1	07/21/05 17:01	E_R
Benzyl alcohol	ND	0.66	0.66		5	5	1	07/21/05 17:01	E_R
Bis(2-chloroethoxy)methane	ND	0.33	0.33		5	5	1	07/21/05 17:01	E_R
Bis(2-chloroethyl)ether	ND	0.30	0.30		5	5	1	07/21/05 17:01	E_R

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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7/26/2005 11:46:53 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-S

Collected: 07/14/2005 16:00

SPL Sample ID: 05070676-12

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst	
Bis(2-chloroisopropyl)ether	ND		0.34	0.34	5	5	1	07/21/05 17:01	E_R	
Bis(2-ethylhexyl)phthalate	ND		0.37	0.37	5	5	1	07/21/05 17:01	E_R	
Butyl benzyl phthalate	ND		0.35	0.35	5	5	1	07/21/05 17:01	E_R	
Carbazole	ND		0.37	0.37	5	5	1	07/21/05 17:01	E_R	
Chrysene	ND		0.35	0.35	5	5	1	07/21/05 17:01	E_R	
Dibenz(a,h)anthracene	ND		5.0	5.0	+	5	5	1	07/21/05 17:01	E_R
Dibenzofuran	ND		0.34	0.34	5	5	1	07/21/05 17:01	E_R	
Diethyl phthalate	ND		0.33	0.33	5	5	1	07/21/05 17:01	E_R	
Dimethyl phthalate	ND		0.23	0.23	5	5	1	07/21/05 17:01	E_R	
Di-n-butyl phthalate	ND		0.31	0.31	5	5	1	07/21/05 17:01	E_R	
Di-n-octyl phthalate	ND		0.37	0.37	5	5	1	07/21/05 17:01	E_R	
Fluoranthene	ND		0.43	0.43	5	5	1	07/21/05 17:01	E_R	
Fluorene	ND		0.14	0.14	5	5	1	07/21/05 17:01	E_R	
Hexachlorobenzene	ND		0.37	0.37	5	5	1	07/21/05 17:01	E_R	
Hexachlorobutadiene	ND		0.36	0.36	5	5	1	07/21/05 17:01	E_R	
Hexachlorocyclopentadiene	ND		0.32	0.32	5	5	1	07/21/05 17:01	E_R	
Hexachloroethane	ND		0.34	0.34	5	5	1	07/21/05 17:01	E_R	
Indeno(1,2,3-cd)pyrene	ND		2.5	2.5	+	5	5	1	07/21/05 17:01	E_R
Isophorone	ND		0.17	0.17	5	5	1	07/21/05 17:01	E_R	
Naphthalene	ND		0.46	0.46	5	5	1	07/21/05 17:01	E_R	
Nitrobenzene	ND		0.34	0.34	5	5	1	07/21/05 17:01	E_R	
N-Nitrosodi-n-propylamine	ND		0.31	0.31	5	5	1	07/21/05 17:01	E_R	
N-Nitrosodiphenylamine	ND		0.33	0.33	5	5	1	07/21/05 17:01	E_R	
Pentachlorophenol	ND		0.29	0.29	25	25	1	07/21/05 17:01	E_R	
Phenanthrene	ND		0.34	0.34	5	5	1	07/21/05 17:01	E_R	
Phenol	ND		0.30	0.30	5	5	1	07/21/05 17:01	E_R	
Pyrene	ND		0.31	0.31	5	5	1	07/21/05 17:01	E_R	
Pyridine	ND		0.39	0.39	5	5	1	07/21/05 17:01	E_R	
2-Methylphenol	ND		0.31	0.31	5	5	1	07/21/05 17:01	E_R	
3 & 4-Methylphenol	ND		0.30	0.30	5	5	1	07/21/05 17:01	E_R	
Surr: 2,4,6-Tribromophenol	53.3	%	10-123				1	07/21/05 17:01	E_R	
Surr: 2-Fluorobiphenyl	62.0	%	23-116				1	07/21/05 17:01	E_R	
Surr: 2-Fluorophenol	56.0	%	16-110				1	07/21/05 17:01	E_R	
Surr: Nitrobenzene-d5	58.0	%	21-114				1	07/21/05 17:01	E_R	
Surr: Phenol-d5	56.0	%	10-110				1	07/21/05 17:01	E_R	
Surr: Terphenyl-d14	62.0	%	22-141				1	07/21/05 17:01	E_R	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	07/16/2005 13:49	K L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-S

Collected: 07/14/2005 16:00 SPL Sample ID: 05070676-12

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analys
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND	0.56	0.56		5	5	1	07/22/05 17:11	L_L
1,1,1-Trichloroethane	ND	0.86	0.86		5	5	1	07/22/05 17:11	L_L
1,1,2,2-Tetrachloroethane	ND	0.80	0.80		5	5	1	07/22/05 17:11	L_L
1,1,2-Trichloroethane	ND	0.83	0.83		5	5	1	07/22/05 17:11	L_L
1,1-Dichloroethane	ND	0.34	0.34		5	5	1	07/22/05 17:11	L_L
1,1-Dichloroethene	ND	0.95	0.95		5	5	1	07/22/05 17:11	L_L
1,1-Dichloropropene	ND	0.81	0.81		5	5	1	07/22/05 17:11	L_L
1,2,3-Trichlorobenzene	ND	0.72	0.72		5	5	1	07/22/05 17:11	L_L
1,2,3-Trichloropropane	ND	0.87	0.87		5	5	1	07/22/05 17:11	L_L
1,2,4-Trichlorobenzene	ND	0.36	0.36		5	5	1	07/22/05 17:11	L_L
1,2,4-Trimethylbenzene	ND	0.39	0.39		5	5	1	07/22/05 17:11	L_L
1,2-Dibromo-3-chloropropane	ND	0.90	0.90		5	5	1	07/22/05 17:11	L_L
1,2-Dibromoethane	ND	0.92	0.92		5	5	1	07/22/05 17:11	L_L
1,2-Dichlorobenzene	ND	0.49	0.49		5	5	1	07/22/05 17:11	L_L
1,2-Dichloroethane	ND	0.43	0.43		5	5	1	07/22/05 17:11	L_L
1,2-Dichloropropane	ND	0.57	0.57		5	5	1	07/22/05 17:11	L_L
1,3,5-Trimethylbenzene	ND	0.44	0.44		5	5	1	07/22/05 17:11	L_L
1,3-Dichlorobenzene	ND	0.74	0.74		5	5	1	07/22/05 17:11	L_L
1,3-Dichloropropane	ND	0.44	0.44		5	5	1	07/22/05 17:11	L_L
1,4-Dichlorobenzene	ND	0.62	0.62		5	5	1	07/22/05 17:11	L_L
2,2-Dichloropropane	ND	0.64	0.64		5	5	1	07/22/05 17:11	L_L
2-Butanone	ND	2.6	2.6		20	20	1	07/22/05 17:11	L_L
2-Chloroethyl vinyl ether	ND	1.1	1.1		10	10	1	07/22/05 17:11	L_L
2-Chlorotoluene	ND	0.51	0.51		5	5	1	07/22/05 17:11	L_L
2-Hexanone	ND	1.8	1.8		10	10	1	07/22/05 17:11	L_L
4-Chlorotoluene	ND	0.87	0.87		5	5	1	07/22/05 17:11	L_L
4-Isopropyltoluene	ND	0.35	0.35		5	5	1	07/22/05 17:11	L_L
4-Methyl-2-pentanone	ND	0.44	0.44		10	10	1	07/22/05 17:11	L_L
Acetone	ND	8.0	8.0		100	100	1	07/22/05 17:11	L_L
Acrylonitrile	ND	4.6	4.6		50	50	1	07/22/05 17:11	L_L
Benzene	ND	0.44	0.44		5	5	1	07/22/05 17:11	L_L
Bromobenzene	ND	0.38	0.38		5	5	1	07/22/05 17:11	L_L
Bromochloromethane	ND	0.93	0.93		5	5	1	07/22/05 17:11	L_L
Bromodichloromethane	ND	0.24	0.24		5	5	1	07/22/05 17:11	L_L
Bromoform	ND	0.60	0.60		5	5	1	07/22/05 17:11	L_L
Bromomethane	ND	2.0	2.0		10	10	1	07/22/05 17:11	L_L
Carbon disulfide	ND	0.62	0.62		5	5	1	07/22/05 17:11	L_L
Carbon tetrachloride	ND	1.1	1.1		5	5	1	07/22/05 17:11	L_L
Chlorobenzene	ND	0.42	0.42		5	5	1	07/22/05 17:11	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit

B - Analyte detected in associated Method Blank above MQL

* - Surrogate Recovery Outside QC Limits

J - Estimated Value between SQL and MQL (PQL)

E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit

D - Surrogate Recovery not reportable due to dilution

MI - Matrix Interference

+ - DCS Concentration

PQL - Adjusted MQL

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7/26/2005 11:46:54 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID ERB-S

Collected: 07/14/2005 16:00 SPL Sample ID: 05070676-12

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analys
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 17:11	L_L
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 17:11	L_L
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 17:11	L_L
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 17:11	L_L
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 17:11	L_L
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 17:11	L_L
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 17:11	L_L
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 17:11	L_L
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 17:11	L_L
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 17:11	L_L
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 17:11	L_L
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 17:11	L_L
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 17:11	L_L
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 17:11	L_L
sec-Butylbenzene	ND		2.5	2.5	5	5	1	07/22/05 17:11	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 17:11	L_L
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 17:11	L_L
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 17:11	L_L
Toluene	1	J	0.53	0.53	5	5	1	07/22/05 17:11	L_L
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 17:11	L_L
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 17:11	L_L
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 17:11	L_L
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 17:11	L_L
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 17:11	L_L
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 17:11	L_L
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 17:11	L_L
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 17:11	L_L
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 17:11	L_L
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 17:11	L_L
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 17:11	L_L
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 17:11	L_L
Surr: 1,2-Dichloroethane-d4	88.0		%	62-130			1	07/22/05 17:11	L_L
Surr: 4-Bromofluorobenzene	104		%	70-130			1	07/22/05 17:11	L_L
Surr: Toluene-d8	100		%	74-122			1	07/22/05 17:11	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit

B - Analyte detected in associated Method Blank above MQL

* - Surrogate Recovery Outside QC Limits

J - Estimated Value between SQL and MQL (PQL)

E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit

D - Surrogate Recovery not reportable due to dilution

MI - Matrix Interference

+ - DCS Concentration

PQL - Adjusted MQL

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7/26/2005 11:46:54 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-14-05

Collected: 07/14/2005 0:00

SPL Sample ID: 05070676-13

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/L			
1,1,1,2-Tetrachloroethane	ND		0.56	0.56	5	5	1	07/22/05 15:17	L_L
1,1,1-Trichloroethane	ND		0.86	0.86	5	5	1	07/22/05 15:17	L_L
1,1,2,2-Tetrachloroethane	ND		0.80	0.80	5	5	1	07/22/05 15:17	L_L
1,1,2-Trichloroethane	ND		0.83	0.83	5	5	1	07/22/05 15:17	L_L
1,1-Dichloroethane	ND		0.34	0.34	5	5	1	07/22/05 15:17	L_L
1,1-Dichloroethene	ND		0.95	0.95	5	5	1	07/22/05 15:17	L_L
1,1-Dichloropropene	ND		0.81	0.81	5	5	1	07/22/05 15:17	L_L
1,2,3-Trichlorobenzene	ND		0.72	0.72	5	5	1	07/22/05 15:17	L_L
1,2,3-Trichloropropane	ND		0.87	0.87	5	5	1	07/22/05 15:17	L_L
1,2,4-Trichlorobenzene	ND		0.36	0.36	5	5	1	07/22/05 15:17	L_L
1,2,4-Trimethylbenzene	ND		0.39	0.39	5	5	1	07/22/05 15:17	L_L
1,2-Dibromo-3-chloropropane	ND		0.90	0.90	5	5	1	07/22/05 15:17	L_L
1,2-Dibromoethane	ND		0.92	0.92	5	5	1	07/22/05 15:17	L_L
1,2-Dichlorobenzene	ND		0.49	0.49	5	5	1	07/22/05 15:17	L_L
1,2-Dichloroethane	ND		0.43	0.43	5	5	1	07/22/05 15:17	L_L
1,2-Dichloropropane	ND		0.57	0.57	5	5	1	07/22/05 15:17	L_L
1,3,5-Trimethylbenzene	ND		0.44	0.44	5	5	1	07/22/05 15:17	L_L
1,3-Dichlorobenzene	ND		0.74	0.74	5	5	1	07/22/05 15:17	L_L
1,3-Dichloropropane	ND		0.44	0.44	5	5	1	07/22/05 15:17	L_L
1,4-Dichlorobenzene	ND		0.62	0.62	5	5	1	07/22/05 15:17	L_L
2,2-Dichloropropane	ND		0.64	0.64	5	5	1	07/22/05 15:17	L_L
2-Butanone	ND		2.6	2.6	20	20	1	07/22/05 15:17	L_L
2-Chloroethyl vinyl ether	ND		1.1	1.1	10	10	1	07/22/05 15:17	L_L
2-Chlorotoluene	ND		0.51	0.51	5	5	1	07/22/05 15:17	L_L
2-Hexanone	ND		1.8	1.8	10	10	1	07/22/05 15:17	L_L
4-Chlorotoluene	ND		0.87	0.87	5	5	1	07/22/05 15:17	L_L
4-Isopropyltoluene	ND		0.35	0.35	5	5	1	07/22/05 15:17	L_L
4-Methyl-2-pentanone	ND		0.44	0.44	10	10	1	07/22/05 15:17	L_L
Acetone	ND		8.0	8.0	100	100	1	07/22/05 15:17	L_L
Acrylonitrile	ND		4.6	4.6	50	50	1	07/22/05 15:17	L_L
Benzene	ND		0.44	0.44	5	5	1	07/22/05 15:17	L_L
Bromobenzene	ND		0.38	0.38	5	5	1	07/22/05 15:17	L_L
Bromochloromethane	ND		0.93	0.93	5	5	1	07/22/05 15:17	L_L
Bromodichloromethane	ND		0.24	0.24	5	5	1	07/22/05 15:17	L_L
Bromoform	ND		0.60	0.60	5	5	1	07/22/05 15:17	L_L
Bromomethane	ND		2.0	2.0	10	10	1	07/22/05 15:17	L_L
Carbon disulfide	ND		0.62	0.62	5	5	1	07/22/05 15:17	L_L
Carbon tetrachloride	ND		1.1	1.1	5	5	1	07/22/05 15:17	L_L
Chlorobenzene	ND		0.42	0.42	5	5	1	07/22/05 15:17	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
B - Analyte detected in associated Method Blank above MQL
* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID TB-7-14-05

Collected: 07/14/2005 0:00

SPL Sample ID: 05070676-13

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis
Chloroethane	ND		0.96	0.96	10	10	1	07/22/05 15:17	L_L
Chloroform	ND		0.74	0.74	5	5	1	07/22/05 15:17	L_L
Chloromethane	ND		0.39	0.39	10	10	1	07/22/05 15:17	L_L
Dibromochloromethane	ND		0.61	0.61	5	5	1	07/22/05 15:17	L_L
Dibromomethane	ND		0.97	0.97	5	5	1	07/22/05 15:17	L_L
Dichlorodifluoromethane	ND		0.84	0.84	10	10	1	07/22/05 15:17	L_L
Ethylbenzene	ND		0.31	0.31	5	5	1	07/22/05 15:17	L_L
Hexachlorobutadiene	ND		1.3	1.3	5	5	1	07/22/05 15:17	L_L
Isopropylbenzene	ND		0.47	0.47	5	5	1	07/22/05 15:17	L_L
Methyl tert-butyl ether	ND		0.62	0.62	5	5	1	07/22/05 15:17	L_L
Methylene chloride	ND		0.58	0.58	5	5	1	07/22/05 15:17	L_L
Naphthalene	ND		0.36	0.36	5	5	1	07/22/05 15:17	L_L
n-Butylbenzene	ND		0.38	0.38	5	5	1	07/22/05 15:17	L_L
n-Propylbenzene	ND		0.71	0.71	5	5	1	07/22/05 15:17	L_L
sec-Butylbenzene	ND		2.5	2.5 +	5	5	1	07/22/05 15:17	L_L
Styrene	ND		0.44	0.44	5	5	1	07/22/05 15:17	L_L
tert-Butylbenzene	ND		0.68	0.68	5	5	1	07/22/05 15:17	L_L
Tetrachloroethene	ND		0.67	0.67	5	5	1	07/22/05 15:17	L_L
Toluene	ND		0.53	0.53	5	5	1	07/22/05 15:17	L_L
Trichloroethene	ND		0.98	0.98	5	5	1	07/22/05 15:17	L_L
Trichlorofluoromethane	ND		0.90	0.90	5	5	1	07/22/05 15:17	L_L
Vinyl acetate	ND		1.6	1.6	10	10	1	07/22/05 15:17	L_L
Vinyl chloride	ND		0.71	0.71	10	10	1	07/22/05 15:17	L_L
cis-1,2-Dichloroethene	ND		0.80	0.80	5	5	1	07/22/05 15:17	L_L
cis-1,3-Dichloropropene	ND		0.48	0.48	5	5	1	07/22/05 15:17	L_L
m,p-Xylene	ND		1.2	1.2	5	5	1	07/22/05 15:17	L_L
o-Xylene	ND		0.42	0.42	5	5	1	07/22/05 15:17	L_L
trans-1,2-Dichloroethene	ND		0.97	0.97	5	5	1	07/22/05 15:17	L_L
trans-1,3-Dichloropropene	ND		0.69	0.69	5	5	1	07/22/05 15:17	L_L
1,2-Dichloroethene (total)	ND		0.80	0.80	5	5	1	07/22/05 15:17	L_L
Xylenes, Total	ND		0.42	0.42	5	5	1	07/22/05 15:17	L_L
Surr: 1,2-Dichloroethane-d4	96.0		%	62-130			1	07/22/05 15:17	L_L
Surr: 4-Bromofluorobenzene	104		%	70-130			1	07/22/05 15:17	L_L
Surr: Toluene-d8	100		%	74-122			1	07/22/05 15:17	L_L

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID NS-24-25'

Collected: 07/13/2005 10:50

SPL Sample ID: 05070676-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
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DIESEL RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Diesel Range Organics (C10-C28)	3	J	0.53	0.49	5	5.4	1	07/20/05 23:30	NW
Surr: n-Pentacosane	79.3		%	20-154			1	07/20/05 23:30	NW

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:03	T L	1.00

GASOLINE RANGE ORGANICS

SW8015B

Units: mg/Kg-dry

Gasoline Range Organics	ND		0.023	0.021	0.1	0.11	1	07/18/05 11:19	JWW
Surr: 1,4-Difluorobenzene	102		%	63-142			1	07/18/05 11:19	JWW
Surr: 4-Bromofluorobenzene	113		%	50-159			1	07/18/05 11:19	JWW

MOISTURE - ASTM

D2216

Units: %

Percent Moisture	7.94				0		1	07/19/05 17:59	E_S
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Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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J - Estimated Value between SQL and MQL (PQL)
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PQL - Adjusted MQL

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID NS-24-25'

Collected: 07/13/2005 10:50 SPL Sample ID: 05070676-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
SEMIVOLATILE ORGANICS BY METHOD 8270C				SW8270C		Units: ug/kg-dry			
1,2,4-Trichlorobenzene	ND	27	24	330	360	1	07/22/05 16:22	GQ	
1,2-Dichlorobenzene	ND	27	25	330	360	1	07/22/05 16:22	GQ	
1,2-Diphenylhydrazine	ND	18	17	330	360	1	07/22/05 16:22	GQ	
1,3-Dichlorobenzene	ND	23	22	330	360	1	07/22/05 16:22	GQ	
1,4-Dichlorobenzene	ND	25	23	330	360	1	07/22/05 16:22	GQ	
2,4,5-Trichlorophenol	ND	48	44	800	870	1	07/22/05 16:22	GQ	
2,4,6-Trichlorophenol	ND	18	17	330	360	1	07/22/05 16:22	GQ	
2,4-Dichlorophenol	ND	18	17	330	360	1	07/22/05 16:22	GQ	
2,4-Dimethylphenol	ND	22	20	330	360	1	07/22/05 16:22	GQ	
2,4-Dinitrophenol	ND	77	71	800	870	1	07/22/05 16:22	GQ	
2,4-Dinitrotoluene	ND	10	9.2	800	870	1	07/22/05 16:22	GQ	
2,6-Dinitrotoluene	ND	13	12	330	360	1	07/22/05 16:22	GQ	
2-Chloronaphthalene	ND	20	18	330	360	1	07/22/05 16:22	GQ	
2-Chlorophenol	ND	23	21	330	360	1	07/22/05 16:22	GQ	
2-Methylnaphthalene	ND	21	20	330	360	1	07/22/05 16:22	GQ	
2-Nitroaniline	ND	11	10	800	870	1	07/22/05 16:22	GQ	
2-Nitrophenol	ND	20	18	330	360	1	07/22/05 16:22	GQ	
3,3'-Dichlorobenzidine	ND	22	20	330	360	1	07/22/05 16:22	GQ	
3-Nitroaniline	ND	11	10	800	870	1	07/22/05 16:22	GQ	
4,6-Dinitro-2-methylphenol	ND	22	20	800	870	1	07/22/05 16:22	GQ	
4-Bromophenyl phenyl ether	ND	9.3	8.6	330	360	1	07/22/05 16:22	GQ	
4-Chloro-3-methylphenol	ND	12	11	330	360	1	07/22/05 16:22	GQ	
4-Chloroaniline	ND	15	14	330	360	1	07/22/05 16:22	GQ	
4-Chlorophenyl phenyl ether	ND	11	9.8	330	360	1	07/22/05 16:22	GQ	
4-Nitroaniline	ND	24	22	800	870	1	07/22/05 16:22	GQ	
4-Nitrophenol	ND	27	25	800	870	1	07/22/05 16:22	GQ	
Acenaphthene	ND	17	16	330	360	1	07/22/05 16:22	GQ	
Acenaphthylene	ND	16	15	330	360	1	07/22/05 16:22	GQ	
Aniline	ND	17	16	330	360	1	07/22/05 16:22	GQ	
Anthracene	ND	21	19	330	360	1	07/22/05 16:22	GQ	
Benz(a)anthracene	ND	17	15	330	360	1	07/22/05 16:22	GQ	
Benzo(a)pyrene	ND	19	17	330	360	1	07/22/05 16:22	GQ	
Benzo(b)fluoranthene	ND	15	13	330	360	1	07/22/05 16:22	GQ	
Benzo(g,h,i)perylene	ND	29	27	330	360	1	07/22/05 16:22	GQ	
Benzo(k)fluoranthene	ND	12	12	330	360	1	07/22/05 16:22	GQ	
Benzoic acid	ND	13	12	1600	1700	1	07/22/05 16:22	GQ	
Benzyl alcohol	ND	22	20	330	360	1	07/22/05 16:22	GQ	
Bis(2-chloroethoxy)methane	ND	26	24	330	360	1	07/22/05 16:22	GQ	
Bis(2-chloroethyl)ether	ND	28	26	330	360	1	07/22/05 16:22	GQ	

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
MI - Matrix Interference
+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID NS-24-25'

Collected: 07/13/2005 10:50

SPL Sample ID: 05070676-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analysis	
Bis(2-chloroisopropyl)ether	ND		22	20	330	360	1	07/22/05 16:22	GQ	
Bis(2-ethylhexyl)phthalate	ND		19	18	330	360	1	07/22/05 16:22	GQ	
Butyl benzyl phthalate	ND		18	17	330	360	1	07/22/05 16:22	GQ	
Carbazole	ND		24	22	330	360	1	07/22/05 16:22	GQ	
Chrysene	ND		12	11	330	360	1	07/22/05 16:22	GQ	
Dibenz(a,h)anthracene	ND		110	100	+	330	360	1	07/22/05 16:22	GQ
Dibenzofuran	ND		17	15		330	360	1	07/22/05 16:22	GQ
Diethyl phthalate	ND		27	25	+	330	360	1	07/22/05 16:22	GQ
Dimethyl phthalate	ND		11	10		330	360	1	07/22/05 16:22	GQ
Di-n-butyl phthalate	ND		27	25		330	360	1	07/22/05 16:22	GQ
Di-n-octyl phthalate	ND		8.8	8.1		330	360	1	07/22/05 16:22	GQ
Fluoranthene	ND		29	26		330	360	1	07/22/05 16:22	GQ
Fluorene	ND		13	12		330	360	1	07/22/05 16:22	GQ
Hexachlorobenzene	ND		17	15		330	360	1	07/22/05 16:22	GQ
Hexachlorobutadiene	ND		29	27		330	360	1	07/22/05 16:22	GQ
Hexachlorocyclopentadiene	ND		20	18		330	360	1	07/22/05 16:22	GQ
Hexachloroethane	ND		29	26		330	360	1	07/22/05 16:22	GQ
Indeno(1,2,3-cd)pyrene	ND		23	21		330	360	1	07/22/05 16:22	GQ
Isophorone	ND		20	18		330	360	1	07/22/05 16:22	GQ
Naphthalene	ND		23	21		330	360	1	07/22/05 16:22	GQ
Nitrobenzene	ND		23	21		330	360	1	07/22/05 16:22	GQ
N-Nitrosodi-n-propylamine	ND		18	17		330	360	1	07/22/05 16:22	GQ
N-Nitrosodiphenylamine	ND		37	34		330	360	1	07/22/05 16:22	GQ
Pentachlorophenol	ND		36	33		800	870	1	07/22/05 16:22	GQ
Phenanthrene	ND		17	15		330	360	1	07/22/05 16:22	GQ
Phenol	ND		23	22		330	360	1	07/22/05 16:22	GQ
Pyrene	ND		31	29		330	360	1	07/22/05 16:22	GQ
Pyridine	ND		28	26		330	360	1	07/22/05 16:22	GQ
2-Methylphenol	ND		22	20		330	360	1	07/22/05 16:22	GQ
3 & 4-Methylphenol	ND		19	17		330	360	1	07/22/05 16:22	GQ
Surr: 2,4,6-Tribromophenol	64.0	%	19-135				1	07/22/05 16:22	GQ	
Surr: 2-Fluorobiphenyl	25.9	%	15-140				1	07/22/05 16:22	GQ	
Surr: 2-Fluorophenol	24.0	%	15-122				1	07/22/05 16:22	GQ	
Surr: Nitrobenzene-d5	20.0	%	10-134				1	07/22/05 16:22	GQ	
Surr: Phenol-d5	30.8	%	10-123				1	07/22/05 16:22	GQ	
Surr: Terphenyl-d14	64.7	%	18-166				1	07/22/05 16:22	GQ	

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	07/19/2005 18:23	T L	1.00

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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* - Surrogate Recovery Outside QC Limits
J - Estimated Value between SQL and MQL (PQL)
E - Estimated Value exceeds calibration curve

>PCL - Result exceeds Protective Concentration Limit
D - Surrogate Recovery not reportable due to dilution
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+ - DCS Concentration
PQL - Adjusted MQL



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID NS-24-25'

Collected: 07/13/2005 10:50

SPL Sample ID: 05070676-01

Site: Hobbs, NM

Analyses/Method	Result	QUAL	SQL	MDL/DCS	MQL	PQL	DF	Date Analyzed	Analyst
VOLATILE ORGANICS BY METHOD 8260B				SW8260B		Units: ug/kg-dry			
1,1,1,2-Tetrachloroethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,1,1-Trichloroethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,1,2,2-Tetrachloroethane	ND		0.48	0.44		5	5.4	1	07/19/05 16:50 JC
1,1,2-Trichloroethane	ND		1.1	1.0		5	5.4	1	07/19/05 16:50 JC
1,1-Dichloroethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,1-Dichloroethene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,1-Dichloropropene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,2,3-Trichlorobenzene	ND		5.4	5.0	+	5	5.4	1	07/19/05 16:50 JC
1,2,3-Trichloropropane	ND		0.64	0.59		5	5.4	1	07/19/05 16:50 JC
1,2,4-Trichlorobenzene	ND		5.4	5.0	+	5	5.4	1	07/19/05 16:50 JC
1,2,4-Trimethylbenzene	ND		0.48	0.44		5	5.4	1	07/19/05 16:50 JC
1,2-Dibromo-3-chloropropane	ND		2.0	1.9		5	5.4	1	07/19/05 16:50 JC
1,2-Dibromoethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,2-Dichlorobenzene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,2-Dichloroethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,2-Dichloropropane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,3,5-Trimethylbenzene	ND		0.48	0.44		5	5.4	1	07/19/05 16:50 JC
1,3-Dichlorobenzene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,3-Dichloropropane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
1,4-Dichlorobenzene	ND		0.83	0.77		5	5.4	1	07/19/05 16:50 JC
2,2-Dichloropropane	ND		5.4	5.0	+	5	5.4	1	07/19/05 16:50 JC
2-Butanone	ND		3.1	2.8		20	22	1	07/19/05 16:50 JC
2-Chloroethyl vinyl ether	ND		2.7	2.5	+	10	11	1	07/19/05 16:50 JC
2-Chlorotoluene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
2-Hexanone	ND		1.9	1.7		10	11	1	07/19/05 16:50 JC
4-Chlorotoluene	ND		0.43	0.40		5	5.4	1	07/19/05 16:50 JC
4-Isopropyltoluene	ND		0.46	0.42		5	5.4	1	07/19/05 16:50 JC
4-Methyl-2-pentanone	ND		2.2	2.0		10	11	1	07/19/05 16:50 JC
Acetone	43	J	14	13		100	110	1	07/19/05 16:50 JC
Acrylonitrile	ND		3.6	3.3		50	54	1	07/19/05 16:50 JC
Benzene	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
Bromobenzene	ND		1.1	1.0	+	5	5.4	1	07/19/05 16:50 JC
Bromochloromethane	ND		0.94	0.87		5	5.4	1	07/19/05 16:50 JC
Bromodichloromethane	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
Bromoform	ND		5.4	5.0	+	5	5.4	1	07/19/05 16:50 JC
Bromomethane	ND		2.5	2.3		10	11	1	07/19/05 16:50 JC
Carbon disulfide	ND		2.7	2.5	+	5	5.4	1	07/19/05 16:50 JC
Carbon tetrachloride	ND		1.1	1.0		5	5.4	1	07/19/05 16:50 JC
Chlorobenzene	ND		0.62	0.57		5	5.4	1	07/19/05 16:50 JC

Qualifiers: ND/U - Not Detected above Sample Quantitation Limit
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E - Estimated Value exceeds calibration curve

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PQL - Adjusted MQL

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