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SUPPLEMENTAL GROUNDWATER MONITORING FOR WILLOW BROOK AND WILLOW BROOK POND

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PRATT & WHITNEY
EAST HARTFORD, CT

SUPPLEMENTAL GROUNDWATER MONITORING FOR WILLOW BROOK AND WILLOW BROOK POND

PRATT & WHITNEY
EAST HARTFORD, CT

January 2000

Prepared for:

PRATT & WHITNEY
400 Main Street
East Hartford, Connecticut

Prepared by:

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400 Main Street
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Pratt & Whitney
A United Technologies Company

January 14, 2000

Ms. Lori Saliby
State of Connecticut
Department of Environmental Protection
Bureau of Waste Management
79 Elm Street
Hartford, CT 06106

Mr. Richard Mason
State of Connecticut
Department of Environmental Protection
Bureau of Water Management
79 Elm Street
Hartford, CT 06106

RE: Supplemental Groundwater Monitoring
Willow Brook and Willow Brook Pond
NOV No. PCB 97-08

Dear Ms. Saliby and Mr. Mason:

We are herein submitting a report on the second round of groundwater monitoring performed in the perimeter of Willow Brook Pond. The analytical data presented in this report is supplementing the data obtained during the previous groundwater monitoring event.

This report is a follow-up to three documents previously submitted to DEP in response to the Notice of Violation (NOV) No. PCB 97-08 issued by the DEP and dated November 7, 1997. The previous reports provided information on the extent of the contamination and presented the results of the investigation of potential sources in the vicinity of the pond.

In addition, we have just received proposals from bidders in response to the Request for Proposal that has been sent out for the remedial options & remedial design study of Willow Brook and Willow Brook Pond. After we have made a decision on a consultant, we would like to meet with DEP to review some conceptual options for the remediation. It is our intent to begin remediation in the year 2000.

Should you have any questions, please do not hesitate to contact me at 860/565-0220.

Sincerely,

PRATT & WHITNEY

Frederick W. Johnson
Director of Environmental Programs & Administration
Group Environment, Health and Safety

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ACRONYMS

DEP	State of Connecticut Department of Environmental Protection
DPH	State of Connecticut Department of Public Health
EPA	Environmental Protection Agency
LEA	Loureiro Engineering Associates
MTBE	Methyl-Tert-Butyl Ether
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
PCBs	Polychlorinated Biphenyls
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
SOPs	Standard Operating Procedures
SVOCs	Semivolatile Organic Compounds
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
VCAP	Voluntary Corrective Action Program
VOCs	Volatile Organic Compounds

1. PURPOSE AND SCOPE

The purpose of this report is to present the results of the supplemental groundwater monitoring performed on February 10, 1999 in wells installed in the perimeter of Willow Brook Pond. The sampling was done to supplement the first monitoring round due to sample breakage in transit to the laboratory during the first round. The groundwater samples collected were analyzed for the parameters that due to sample breakage were not analyzed during the initial round. In addition, the samples collected were analyzed for all parameters for which detected values were observed during the initial round. The analytical parameters included metals (arsenic, barium, cadmium, chromium, lead, mercury, nickel, selenium, silver, and zinc), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH).

1.1 Previous Reports

This report follows three previous reports submitted to the State of Connecticut Department of Environmental Protection (DEP) in response to the Notice of Violation (NOV) No. PCB 97-08 issued by the DEP and dated November 7, 1997. The first report, *Report on PCB Investigation for Willow Brook and Willow Brook Pond Sediment*, prepared by Loureiro Engineering Associates (LEA) and dated February 18, 1998, presented the results of laboratory analyses on sediment samples collected from Willow Brook and Willow Brook Pond.

The second report, *Report on Supplemental PCB Investigation for Willow Brook and Willow Brook Pond*, prepared by LEA and dated April 1998, presented the results of in-depth sampling and investigated potential source areas in the vicinity of the pond. The results identified the presence of PCB contamination in the area of the Former Oil/Water Separator between the two sections of Willow Brook Pond. Significantly lower levels of contamination were observed in the other two areas investigated (southwestern bank of Willow Brook Pond and the Former Oil Basin Area).

The third report, *Report on PCB Investigation for Willow Brook and Willow Brook Pond (Phase III)*, prepared by LEA and dated March 1999, presented the findings of the third phase of PCB investigations. During this phase, soil samples were collected from soil borings and monitoring wells which were installed in the vicinity of Willow Brook Pond. In addition, surface sediment and soil samples to depths of up to 6 feet were collected along the banks of Willow Brook within Pratt & Whitney's property and adjacent properties.

1.2 Report Organization

This report provides a brief introductory section (Section 2), discusses the groundwater monitoring activities performed, making reference to the original Work Plan as appropriate (Section 3), and summarizes the results of the monitoring in Section 4. Section 5 presents the conclusions of the supplemental round of groundwater monitoring.

Copies of the field forms for the groundwater monitoring event of February 10, 1999 are included in Appendix A. Copies of the laboratory reports are included in Appendix B.

2. INTRODUCTION

The Pratt & Whitney East Hartford site is located on a level terrace of land to the east of the Connecticut River within the urban/industrial area of greater Hartford. The site is surrounded by residential, commercial, and industrial land. Two small streams, Willow Brook and Pewterpot Brook, course through the property. The principal NPDES-permitted wastewater discharges from the manufacturing area of the site are directed to Willow Brook. Willow Brook has a total drainage area of two square miles. The brook is piped through much of the site in a concrete conduit which discharges into Willow Brook Pond just north of the principal manufacturing buildings. Process water is pumped into the plant from Willow Brook Pond and the major cooling water discharges from the manufacturing area are returned to the stream at or above the pond. The pond serves as part of the plant's water recirculation system. The water quality classification for the lower part of Willow Brook has been designated as Class B. Class B surface waters are designated for recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation.

Supplemental information on Pratt & Whitney's permitted water discharges in the 400 Main Street and Colt Street, East Hartford facilities has been provided in previous reports.

3. SAMPLING METHODOLOGY

The field activities performed during this phase of investigations were limited to collection and analysis of groundwater samples from the wells installed in the perimeter of Willow Brook Pond. The groundwater monitoring event was performed on February 10, 1999. Not all wells were sampled for all parameters. The samples were collected to supplement the first monitoring round due to sample breakage in transit to the laboratory during the first round. In addition, the samples collected were analyzed for suites of analytes for which detected values were observed during the initial round.

3.1 Groundwater Sampling

Groundwater samples were collected by LEA personnel from the installed monitoring wells on February 10, 1999 to supplement the first groundwater monitoring event performed on December 4, 1998. Prior to sampling, the depth of water and total depth of each monitoring well were recorded. From this information, the total volume of water contained in each monitoring well was calculated. The water was purged initially and pH, temperature, and conductivity were recorded. Once the initial volume of water was removed, the monitoring well was purged a minimum of three times the standing water volume. Samples were collected using a peristaltic pump and dedicated polyethylene tubing. Water samples were transferred directly into labeled sample containers from the peristaltic pump. Samples collected for metals analysis were filtered in the field using a dedicated 0.45 micron in-line filter assembly. Groundwater samples collected for VOCs were collected using a dedicated disposable Teflon® bailer. The containers were sealed, placed in a cooler, and shipped to Accutest of Dayton, NJ for analysis for VOCs, SVOCs, PCBs, metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, (RCRA 8) plus nickel and zinc), and TPH.

3.2 Sample Handling

The groundwater samples were transferred directly into laboratory-supplied glassware, labeled, and placed into a cooler with ice. At the completion of the sampling event, all samples were submitted for analysis to a State of Connecticut Department of Public Health (DPH) certified laboratory (Accutest). All samples were transferred to the laboratory under full chain-of-custody control.

3.3 Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) samples were collected for analysis, in addition to the groundwater samples collected. The QA/QC samples collected included an equipment blank

to determine if the decontamination procedures were adequate, a trip blank and a duplicate sample. Low levels of TPH (at 0.66 mg/l) was reported for the equipment blank. Low TPH concentrations at the same level as in the equipment blank were detected in all samples analyzed with the exception of WT-PZ-12. The low levels of TPH observed in the equipment blank are most likely attributed to laboratory contamination. The equipment blank consists of running laboratory-supplied analyte-free deionized water through a clean section of peristaltic pump hose into laboratory-supplied glassware using the peristaltic pump. No VOCs were detected in the trip blank. Relative percent differences up to 12% were observed in the duplicate samples collected from well WT-PZ-05 with the exception of bis(2-ethylhexyl)phthalate which exhibited a relative percent difference of 70% (detected at 1.2 J μg/l and 2.5 J μg/l in the duplicate). Such relative percent differences, however, are to be expected in the low concentration ranges reported. The qualifier J denotes an estimated concentration.

3.4 Documentation

Documentation activities performed under this sampling plan included the following:

- Field sampling forms,
- Daily field report and supplemental sheet,
- Daily field QA/QC checklist,
- Chain-of-custody forms.

Sample labels were printed and inspected for accuracy prior to the initiation of field activities.

4. RESULTS

The analytical results for the groundwater monitoring events performed on December 4, 1998 and on February 10, 1999 are shown on Drawing No. 1, Groundwater Data for Willow Brook / Willow Brook Pond. Information on the monitoring wells sampled is provided in Table 1. It should be noted that for consistency reasons following a sitewide well inventory the well names have changed as listed in Table 1. A summary of sampling and analytical information is provided in Table 2, while the concentrations of constituents detected in groundwater are presented in Table 3. Table 4 summarizes all analytical results for groundwater, including those constituents for which no detectable concentrations were reported.

Groundwater was sampled from eight monitoring wells along the perimeter of Willow Brook Pond in order to supplement the first monitoring event during which sample breakage occurred while in transit to the laboratory. PCBs were detected in groundwater from monitoring wells WT-PZ-09 (at 7.9 µg/l) and WT-PZ-10 (at 1.7 µg/l), confirming the results obtained during the first monitoring round. The corresponding concentrations observed during the first sampling round were 8.5 µg/l (at WT-PZ-09) and 0.73 µg/l (at WT-PZ-10). Arsenic (at 0.0041 mg/l) was detected in groundwater from monitoring well WT-PZ-10 and barium (at 0.219 mg/l) and zinc (at 0.101 mg/l) were detected in groundwater from well WT-PZ-08. These metals were not detected in these monitoring wells in the first monitoring round.

TPH was reported present in groundwater from monitoring wells WT-PZ-05 (at 0.62 mg/l and 0.70 mg/l in the duplicate), WT-PZ-06 (at 1.3 mg/l), WT-PZ-08 (at 0.65 mg/l), WT-PZ-09 (at 3.3 mg/l), and WT-PZ-10 (at 0.86 mg/l). It should be noted that TPH was reported for the equipment blank at similar concentration levels and it is most likely attributed to low-level laboratory contamination. Three SVOCs were detected in groundwater from well WT-PZ-05, acenaphthene at 3.2 µg/l and 3.3 µg/l in the duplicate, bis(2-ethylhexyl)phthalate at 1.2 µg/l and 2.5 µg/l in the duplicate, and fluorene at 0.50 µg/l and 0.48 µg/l in the duplicate. The low concentrations of bis(2-ethylhexyl)phthalate detected (1.2 µg/l and 2.5 µg/l in the duplicate) are in contrast to the relatively elevated values (up to 681 µg/l) reported for the same well during the first round. The presence of bis(2-ethylhexyl)phthalate in the groundwater sample during the first monitoring round may be due to sample contamination during the first monitoring round.

Low concentrations of VOCs were detected in groundwater from several wells sampled. Trace levels of chloroethane were detected in groundwater from well WT-PZ-05 (at 2.2 µg/l and 2.0 µg/l in the duplicate). Methyl-tert-butyl ether (MTBE) was detected in groundwater from wells WT-PZ-08 (at 2.6 µg/l) and WT-PZ-09 (at 15.4 µg/l) confirming the findings of the first

groundwater monitoring round. The respective MTBE concentrations detected in the first monitoring round were 3.1 μg/l (WT-PZ-08) and 76 μg/l (WT-PZ-09). VOCs detected in groundwater from well WT-PZ-12 included cis-1,2-dichloroethylene (at 1.1 μg/l), MTBE (at 2.4 μg/l) and trichloroethylene (at 1.6 μg/l). Trace levels of chlorinated hydrocarbons were also observed in this well during the initial monitoring round.

5. CONCLUSIONS

The second round of groundwater monitoring performed was intended to supplement the first round in which certain analyses were not performed due to sample breakage while in transit to the laboratory and to provide additional monitoring data on all detected parameters in the initial round. Overall the results of the second round of groundwater monitoring confirmed the results of the first round indicating the presence of low levels of constituents.

PCBs (in the microgram per liter range) were detected in two of the wells sampled (WT-PZ-09 and WT-PZ-10) at concentration levels in the low part per billion range. Trace metals were detected in some of the wells, inconsistent with the first monitoring round. The concentration levels of TPH observed in the groundwater samples collected were of the same order of magnitude as the TPH level observed in the equipment blank. The presence of TPH in the equipment blank is most likely attributed to low level laboratory contamination. Trace levels of SVOCs and VOCs were detected in some of the wells in generally consistent levels as in the first monitoring round with the exception of bis(2-ethylhexyl)phthalate which was detected in the second round in much lower concentrations than the first round.

TABLES

Table 1
MONITORING WELL IDENTIFICATION
Pratt Whitney, 400 Main Street, East Hartford, CT

New Well Name	Old Well Name	Screened Interval		Reference Elevation	Depth to Water	Depth of Well	Groundwater Elevation
WT-PZ-05	WT-PZ-124	8.0	17.0	36.32	9.23	16.98	27.09
WT-PZ-06	WT-PZ-129	11.0	20.0	37.12	8.20	18.95	28.92
WT-PZ-07	WT-PZ-131	7.0	17.0	37.81	8.77	16.45	29.04
WT-PZ-08	WT-PZ-134	6.0	16.0	37.21	7.56	16.19	29.65
WT-PZ-09	WT-PZ-136	7.0	17.0	37.26	8.01	15.20	29.25
WT-PZ-10	WT-PZ-139	5.0	10.0	32.52	3.64	11.35	28.88
WT-PZ-11	WT-PZ-140	3.0	12.0	33.22	5.28	9.74	27.94
WT-PZ-12	WT-PZ-142	5.0	10.0	32.66	5.00	9.67	27.66

Groundwater elevations based on measurements obtained on 2/10/99. All elevations given in feet.

Table 2
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

Sample Information						Analysis Information								
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
EQUIPMENT	1834787	2/10/99			BKE		x	x			x	x		X
TRIP BLANK	1834788	2/10/99			BKT		x							
WT-PZ-05	1834784	2/10/99	8.0	17.0	GW		X	X			x	x		X
WT-PZ-05	1834785	2/10/99	8.0	17.0	GW		X	X			x	x		X
WT-PZ-06	1834779	2/10/99	11.0	20.0	GW		x				x			X
WT-PZ-07	1834778	2/10/99	7.0	17.0	GW			x			x			
WT-PZ-08	1834781	2/10/99	6.0	16.0	GW		X				x	X		X
WT-PZ-09	1834780	2/10/99	7.0	17.0	GW		X				X			X
WT-PZ-10	1834782	2/10/99	5.0	10.0	GW						X	X		X
WT-PZ-11	1834783	2/10/99	3.0	12.0	GW			x			x	x		
WT-PZ-12	1834786	2/10/99	5.0	10.0	GW		X				x			x

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit
2. Printed on 11/09/99

Table 3
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS)
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-08	WT-PZ-09	WT-PZ-10
	Sample ID	1834787	1834784	1834785	1834779	1834781	1834780	1834782
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	14:30	14:30	11:50	13:25	12:55	13:40
	Sample Depth		8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	6.0' - 16.0'	7.0' - 17.0'	5.0' - 10.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-7	E45488-8	E45488-2	E45488-4	E45488-3	E45488-5
Constituent	Units							
Depth of Well	FT		16.98	16.98	18.95	16.19	15.20	11.35
Depth to Water	FT		9.23	9.23	8.20	7.56	8.01	3.64
Specific Conductivity (field)	*µmhos*		395	395	824	678	248	177.0
Water Elevation	FT		-9.23	-9.23	-8.20	-7.56	-8.01	-3.64
pH (field)	SU		6.73	6.73	6.36	5.94	5.76	6.00
Date PCBs Analyzed	-						02/16/1999	02/16/1999
Date Metals Analyzed	-					02/24/1999		02/24/1999
Date Organics Analyzed	-		02/19/1999	02/19/1999		02/19/1999	02/19/1999	
Date Physical Analyzed	-	02/16/1999	02/16/1999	02/16/1999	02/16/1999	02/16/1999	02/16/1999	02/16/1999
Date Semi-volatile Organics Analyzed	-		03/04/1999	03/04/1999				
Arsenic	mg/L							0.0041
Barium	mg/L					0.219		
Zinc	mg/L					0.101		
PCB 1248	µg/l						3.7	
PCB 1254	µg/l						4.2	1.7
Total Petroleum Hydrocarbons	mg/l	0.66	0.62	0.70	1.3	0.65	3.3	0.86
Acenaphthene	µg/l		3.2 J	3.3 J				
Bis(2-ethylhexyl)phthalate	µg/l		1.2 J	2.5 J				
Fluorene	µg/l		0.50 J	0.48 J				
Chloroethane	µg/l		2.2 J	2.0 J				
Dichloroethylene,1,2-cis-	µg/l							
Methyl-tert-butyl Ether	µg/l					2.6 J	15.4	
Trichloroethylene	µg/l							

Notes: 1. Only Detects Shown
2. Printed on 11/09/99

Table 3
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS)
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-12						
	Sample ID	1834786						
	Sample Date	02/10/1999						
	Sample Time	14:45						
	Sample Depth	5.0' - 10.0'						
	Laboratory	accu						
	Lab. Number	E45488-9						
Constituent	Units							
Depth of Well	FT	9.67						
Depth to Water	FT	5.00						
Specific Conductivity (field)	µmhos	244						
Water Elevation	FT	-5.00						
pH (field)	SU	6.32						
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date Organics Analyzed	-	02/22/1999						
Date Physical Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/L							
Barium	mg/L							
Zinc	mg/L							
PCB 1248	µg/l							
PCB 1254	µg/l							
Total Petroleum Hydrocarbons	mg/l							
Acenaphthene	µg/l							
Bis(2-ethylhexyl)phthalate	µg/l							
Fluorene	µg/l							
Chloroethane	µg/l							
Dichloroethylene,1,2-cis-	µg/l	1.1 J						
Methyl-tert-butyl Ether	µg/l	2.4 J						
Trichloroethylene	µg/l	1.6						

Notes: 1. Only Detects Shown
2. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Depth of Well	FT			16.98	16.98	18.95	16.45	16.19
Depth to Water	FT			9.23	9.23	8.20	8.77	7.56
Specific Conductivity (field)	µmhos			395	395	824	307	678
Water Elevation	FT			-9.23	-9.23	-8.20	-8.77	-7.56
pH (field)	SU			6.73	6.73	6.36	6.43	5.94
Date PCBs Analyzed	-	02/17/1999		02/17/1999	02/17/1999	02/16/1999	02/16/1999	02/16/1999
Date Metals Analyzed	-	02/24/1999		02/24/1999	02/24/1999			02/24/1999
Date Organics Analyzed	-	02/22/1999	02/19/1999	02/19/1999	02/19/1999	02/19/1999		02/19/1999
Date Physical Analyzed	-	02/16/1999		02/16/1999	02/16/1999	02/16/1999		02/16/1999
Date Semi-volatile Organics Analyzed	-	03/05/1999		03/04/1999	03/04/1999		03/04/1999	
Diallate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dinoseb	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Arsenic	mg/L	<0.0040 U		<0.0040 U	<0.0040 U			<0.0040 U
Barium	mg/L	<0.200 U		<0.200 U	<0.200 U			0.219
Cadmium	mg/L	<0.0040 U		<0.0040 U	<0.0040 U			<0.0040 U
Chromium (Total)	mg/L	<0.010 U		<0.010 U	<0.010 U			<0.010 U
Lead	mg/L	<0.0030 U		<0.0030 U	<0.0030 U			<0.0030 U
Mercury	mg/L	<0.00020 U		<0.00020 U	<0.00020 U			<0.00020 U
Nickel	mg/L	<0.040 U		<0.040 U	<0.040 U			<0.040 U
Selenium	mg/L	<0.0050 U		<0.0050 U	<0.0050 U			<0.0050 U
Silver	mg/L	<0.010 U		<0.010 U	<0.010 U			<0.010 U
Zinc	mg/L	<0.020 U		<0.020 U	<0.020 U			0.101
PCB 1016	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
PCB 1221	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
PCB 1232	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
PCB 1242	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
PCB 1248	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
PCB 1254	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
PCB 1260	µg/l	<0.50 U		<0.50 U	<0.50 U	<0.55 U	<0.55 U	<0.50 U
Acetylaminofluorene,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Aramite	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Dibromo-3-chloropropane,1,2-	µg/l	<10 U	<10 U	<10 U	<10 U	<10 U		<10 U
Dimethoate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Disulfoton	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Famphur	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Hexachlorobenzene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Hexachlorocyclopentadiene	µg/l	<21 U		<21 U	<21 U		<21 U	
Methyl Parathion	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Parathion	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Phorate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Tetraethyl Dithiopyrophosphate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Thionazin	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Total Petroleum Hydrocarbons	mg/l	0.66		0.62	0.70	1.3		0.65
Acenaphthene	µg/l	<5.2 U		3.2 J	3.3 J		<5.2 U	
Acenaphthylene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Acetophenone	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Aminobiphenyl,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Aniline	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Anthracene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzo[a]anthracene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzo[a]pyrene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzo[b]fluoranthene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzo[ghi]perylene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzo[k]fluoranthene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Benzyl Alcohol	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Bis(2-chloroethoxy)methane	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Bis(2-chloroethyl)ether	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Bis(2-chloroisopropyl)ether	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Bis(2-ethylhexyl)phthalate	µg/l	<5.2 U		1.2 J	2.5 J		<5.2 U	
Bromophenyl Phenyl Ether,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Butyl Benzyl Phthalate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Carbazole	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Chloro-m-cresol,p-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Chloroaniline,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Chloronaphthalene,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Chlorophenol,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Chlorophenyl Phenyl Ether,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Chrysene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Cresol,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Cresols	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Di-n-butyl Phthalate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Di-n-octyl Phthalate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dibenzo[a,h]anthracene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dibenzofuran	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichloro-2-butylene,1,4-trans-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	5.0 U		<5.0 U
Dichlorobenzidine,3,3'-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichlorophenol,2,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichlorophenol,2,6-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Diethyl Phthalate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dimethyl Phthalate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dimethylaminoazobenzene,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dimethylbenzidine,3,3'-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Dimethylbenzo[a]anthracene,7,12-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dimethylphenethylamine,alpha,alpha-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Dimethylphenol,2,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dinitro-o-cresol,4,6-	µg/l	<21 U		<21 U	<21 U		<21 U	
Dinitrobenzene,1,3-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dinitrophenol,2,4-	µg/l	<21 U		<21 U	<21 U		<21 U	
Dinitrotoluene,2,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dinitrotoluene,2,6-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Diphenylamine	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Ethylmethanesulfonate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Fluoranthene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Fluorene	µg/l	<5.2 U		0.50 J	0.48 J		<5.2 U	
Hexachlorobutadiene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Hexachloroethane	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Hexachlorophene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Hexachloropropylene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Indeno(1,2,3-cd)pyrene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Isophorone	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Isosafrole	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Methapyrilene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Methyl Methanesulfonate	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Methylcholanthrene,3-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Methylnaphthalene,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Naphthalene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Naphthoquinone,1,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Naphthylamine,alpha-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Naphthylamine,beta-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitro-o-toluidine,5-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitroaniline,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitroaniline,3-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	aceu	aceu	aceu	aceu	aceu	aceu	aceu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Nitroaniline,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrobenzene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrophenol,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrophenol,4-	µg/l	<21 U		<21 U	<21 U		<21 U	
Nitroquinoline-1-oxide,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitroso-di-n-butylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitroso-n-propylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosodiethylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosodimethylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosodiphenylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U J	
Nitrosomethylethylamine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosomorpholine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosopiperidine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Nitrosopyrrolidine,n-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pentachlorophenol	µg/l	<21 U		<21 U	<21 U		<21 U	
Phenacetin	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Phenanthrene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Phenol	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Phenylenediamine,1,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Picoline,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pronamide	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pyrene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pyridine	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Safrole	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Tetrachlorobenzene,1,2,4,5-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Tetrachlorophenol,2,3,4,6-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Toluidine,o-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Trichlorophenol,2,4,5-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Trichlorophenol,2,4,6-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Triethyl Phosphorothioate,o,o,o-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Trinitrobenzene,1,3,5-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Acetone	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Acetonitrile	µg/l	<100 U	<100 U	<100 U	<100 U	<100 U R		<100 U R
Acrolein	µg/l	<50 U	<50 U	<50 U	<50 U	<50 U R		<50 U R
Acrylonitrile	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U R		<5.0 U R
Allyl Chloride	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Benzene	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Bromoform	µg/l	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U		<4.0 U
Carbon Disulfide	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Carbon Tetrachloride	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Chlorobenzene	µg/l	<4.0 U	<4.0 U	<4.0 U	<4.0 U	<4.0 U		<4.0 U
Chlorodibromomethane	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Chloroethane	µg/l	<5.0 U	<5.0 U	2.2 J	2.0 J	<5.0 U		<5.0 U
Chloroform	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Chloroprene,beta-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Dibromomethane	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Dichlorobenzene,1,2-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichlorobenzene,1,3-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichlorobenzene,1,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Dichlorobromomethane	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Dichlorodifluoromethane	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Dichloroethane,1,1-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Dichloroethane,1,2-	µg/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<2.0 U
Dichloroethylene,1,1-	µg/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<2.0 U
Dichloroethylene,1,2-cis-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Dichloroethylene,1,2-trans-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Dichloropropane,1,2-	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Dichloropropylene,1,3-cis-	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Dichloropropylene,1,3-trans-	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Dioxane,1,4-	µg/l	<120 U	<120 U	<120 U	<120 U	<120 U R		<120 U R
Ethylbenzene	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Ethylene Dibromide	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Ethylmethacrylate	µg/l	<10 U	<10 U	<10 U	<10 U	<10 U		<10 U
Hexanone,2-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Iodomethane	µg/l	<25 U	<25 U	<25 U	<25 U	<25 U		<25 U
Isobutyl Alcohol	µg/l	<50 U	<50 U	<50 U	<50 U	<50 U R		<50 U R
Methacrylonitrile	µg/l	<10 U	<10 U	<10 U	<10 U	<10 U		<10 U
Methyl Bromide	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Methyl Chloride	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Methyl Ethyl Ketone	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Methyl Methacrylate	µg/l	<10 U	<10 U	<10 U	<10 U	<10 U		<10 U
Methyl-2-pentanone,4-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Methyl-tert-butyl Ether	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		2.6 J
Methylene Chloride	µg/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<2.0 U
Pentachlorobenzene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pentachloroethane	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	
Pentachloronitrobenzene	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U R	
Propionitrile	µg/l	<50 U	<50 U	<50 U	<50 U	<50 U R		<50 U R
Styrene	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Tetrachloroethane,1,1,1,2-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Tetrachloroethane,1,1,2,2-	µg/l	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U		<2.0 U
Tetrachloroethylene	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Toluene	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Trichlorobenzene,1,2,4-	µg/l	<5.2 U		<5.2 U	<5.2 U		<5.2 U	

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	EQUIPMENT	TRIP BLANK	WT-PZ-05	WT-PZ-05	WT-PZ-06	WT-PZ-07	WT-PZ-08
	Sample ID	1834787	1834788	1834784	1834785	1834779	1834778	1834781
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999	02/10/1999
	Sample Time	15:15	16:45	14:30	14:30	11:50	11:25	13:25
	Sample Depth			8.0' - 17.0'	8.0' - 17.0'	11.0' - 20.0'	7.0' - 17.0'	6.0' - 16.0'
	Laboratory	accu	accu	accu	accu	accu	accu	accu
	Lab. Number	E45488-10	E45488-11	E45488-7	E45488-8	E45488-2	E45488-1	E45488-4
Constituent	Units							
Trichloroethane,1,1,1-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Trichloroethane,1,1,2-	µg/l	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U		<3.0 U
Trichloroethylene	µg/l	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U		<1.0 U
Trichloromonofluoromethane	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Trichloropropane,1,2,3-	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Vinyl Acetate	µg/l	<10 U	<10 U	<10 U	<10 U	<10 U		<10 U
Vinyl Chloride	µg/l	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U		<5.0 U
Xylenes (Total)	µg/l	<3.0 U	<3.0 U	<3.0 U	<3.0 U	<3.0 U		<3.0 U

Notes: 1. Printed on 11/09/99

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Depth of Well	FT	15.20	11.35	9.74	9.67			
Depth to Water	FT	8.01	3.64	5.28	5.00			
Specific Conductivity (field)	µmhos	248	177.0	242	244			
Water Elevation	FT	-8.01	-3.64	-5.28	-5.00			
pH (field)	SU	5.76	6.00	5.91	6.32			
Date PCBs Analyzed	-	02/16/1999	02/16/1999	02/16/1999	02/17/1999			
Date Metals Analyzed	-		02/24/1999	02/24/1999				
Date Organics Analyzed	-	02/19/1999			02/22/1999			
Date Physical Analyzed	-	02/16/1999	02/16/1999		02/16/1999			
Date Semi-volatile Organics Analyzed	-			03/04/1999				
Diallate	µg/l			<5.1 U				
Dinoseb	µg/l			<5.1 U				
Arsenic	mg/L		0.0041	<0.0040 U				
Barium	mg/L		<0.200 U	<0.200 U				
Cadmium	mg/L		<0.0040 U	<0.0040 U				
Chromium (Total)	mg/L		<0.010 U	<0.010 U				
Lead	mg/L		<0.0030 U	<0.0030 U				
Mercury	mg/L		<0.00020 U	<0.00020 U				
Nickel	mg/L		<0.040 U	<0.040 U				
Selenium	mg/L		<0.0050 U	<0.0050 U				
Silver	mg/L		<0.010 U	<0.010 U				
Zinc	mg/L		<0.020 U	<0.020 U				
PCB 1016	µg/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U			
PCB 1221	µg/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U			
PCB 1232	µg/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U			
PCB 1242	µg/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U			
PCB 1248	µg/l	3.7	<0.50 U	<0.50 U	<0.50 U			
PCB 1254	µg/l	4.2	1.7	<0.50 U	<0.50 U			

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
PCB 1260	µg/l	<0.50 U	<0.50 U	<0.50 U	<0.50 U			
Acetylaminofluorene,2-	µg/l			<5.1 U				
Aramite	µg/l			<5.1 U				
Dibromo-3-chloropropane,1,2-	µg/l	<10 U			<10 U			
Dimethoate	µg/l			<5.1 U				
Disulfoton	µg/l			<5.1 U				
Famphur	µg/l			<5.1 U				
Hexachlorobenzene	µg/l			<5.1 U				
Hexachlorocyclopentadiene	µg/l			<20 U				
Methyl Parathion	µg/l			<5.1 U				
Parathion	µg/l			<5.1 U				
Phorate	µg/l			<5.1 U				
Tetraethyl Dithiopyrophosphate	µg/l			<5.1 U				
Thionazin	µg/l			<5.1 U				
Total Petroleum Hydrocarbons	mg/l	3.3	0.86		<0.50 U			
Acenaphthene	µg/l			<5.1 U				
Acenaphthylene	µg/l			<5.1 U				
Acetophenone	µg/l			<5.1 U				
Aminobiphenyl,4-	µg/l			<5.1 U				
Aniline	µg/l			<5.1 U				
Anthracene	µg/l			<5.1 U				
Benzo[a]anthracene	µg/l			<5.1 U				
Benzo[a]pyrene	µg/l			<5.1 U				
Benzo[b]fluoranthene	µg/l			<5.1 U				
Benzo[ghi]perylene	µg/l			<5.1 U				
Benzo[k]fluoranthene	µg/l			<5.1 U				
Benzyl Alcohol	µg/l			<5.1 U				
Bis(2-chloroethoxy)methane	µg/l			<5.1 U				

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Bis(2-chloroethyl)ether	µg/l			<5.1 U				
Bis(2-chloroisopropyl)ether	µg/l			<5.1 U				
Bis(2-ethylhexyl)phthalate	µg/l			<5.1 U				
Bromophenyl Phenyl Ether,4-	µg/l			<5.1 U				
Butyl Benzyl Phthalate	µg/l			<5.1 U				
Carbazole	µg/l			<5.1 U				
Chloro-m-cresol,p-	µg/l			<5.1 U				
Chloroaniline,4-	µg/l			<5.1 U				
Chloronaphthalene,2-	µg/l			<5.1 U				
Chlorophenol,2-	µg/l			<5.1 U				
Chlorophenyl Phenyl Ether,4-	µg/l			<5.1 U				
Chrysene	µg/l			<5.1 U				
Cresol,2-	µg/l			<5.1 U				
Cresols	µg/l			<5.1 U				
Di-n-butyl Phthalate	µg/l			<5.1 U				
Di-n-octyl Phthalate	µg/l			<5.1 U				
Dibenzo[a,h]anthracene	µg/l			<5.1 U				
Dibenzofuran	µg/l			<5.1 U				
Dichloro-2-butylene,1,4-trans-	µg/l	<5.0 U			<5.0 U			
Dichlorobenzidine,3,3'-	µg/l			<5.1 U				
Dichlorophenol,2,4-	µg/l			<5.1 U				
Dichlorophenol,2,6-	µg/l			<5.1 U				
Diethyl Phthalate	µg/l			<5.1 U				
Dimethyl Phthalate	µg/l			<5.1 U				
Dimethylaminoazobenzene,4-	µg/l			<5.1 U				
Dimethylbenzidine,3,3'-	µg/l			<5.1 U				
Dimethylbenzo[a]anthracene,7,12-	µg/l			<5.1 U				
Dimethylphenethylamine,alpha,alpha-	µg/l			<5.1 U				

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Dimethylphenol,2,4-	µg/l			<5.1 U				
Dinitro-o-cresol,4,6-	µg/l			<20 U				
Dinitrobenzene,1,3-	µg/l			<5.1 U				
Dinitrophenol,2,4-	µg/l			<20 U				
Dinitrotoluene,2,4-	µg/l			<5.1 U				
Dinitrotoluene,2,6-	µg/l			<5.1 U				
Diphenylamine	µg/l			<5.1 U				
Ethylmethanesulfonate	µg/l			<5.1 U				
Fluoranthene	µg/l			<5.1 U				
Fluorene	µg/l			<5.1 U				
Hexachlorobutadiene	µg/l			<5.1 U				
Hexachloroethane	µg/l			<5.1 U				
Hexachlorophene	µg/l			<5.1 U				
Hexachloropropylene	µg/l			<5.1 U				
Indeno(1,2,3-cd)pyrene	µg/l			<5.1 U				
Isophorone	µg/l			<5.1 U				
Isosafrole	µg/l			<5.1 U				
Methapyrilene	µg/l			<5.1 U				
Methyl Methanesulfonate	µg/l			<5.1 U				
Methylcholanthrene,3-	µg/l			<5.1 U				
Methylnaphthalene,2-	µg/l			<5.1 U				
Naphthalene	µg/l			<5.1 U				
Naphthoquinone,1,4-	µg/l			<5.1 U				
Naphthylamine,alpha-	µg/l			<5.1 U				
Naphthylamine,beta-	µg/l			<5.1 U				
Nitro-o-toluidine,5-	µg/l			<5.1 U				
Nitroaniline,2-	µg/l			<5.1 U				
Nitroaniline,3-	µg/l			<5.1 U				

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Nitroaniline,4-	µg/l			<5.1 U				
Nitrobenzene	µg/l			<5.1 U				
Nitrophenol,2-	µg/l			<5.1 U				
Nitrophenol,4-	µg/l			<20 U				
Nitroquinoline-1-oxide,4-	µg/l			<5.1 U				
Nitroso-di-n-butylamine,n-	µg/l			<5.1 U				
Nitroso-n-propylamine,n-	µg/l			<5.1 U				
Nitrosodiethylamine,n-	µg/l			<5.1 U				
Nitrosodimethylamine,n-	µg/l			<5.1 U				
Nitrosodiphenylamine,n-	µg/l			<5.1 U				
Nitrosomethylethylamine,n-	µg/l			<5.1 U				
Nitrosomorpholine,n-	µg/l			<5.1 U				
Nitrosopiperidine,n-	µg/l			<5.1 U				
Nitrosopyrrolidine,n-	µg/l			<5.1 U				
Pentachlorophenol	µg/l			<20 U				
Phenacetin	µg/l			<5.1 U				
Phenanthrene	µg/l			<5.1 U				
Phenol	µg/l			<5.1 U				
Phenylenediamine,1,4-	µg/l			<5.1 U				
Picoline,2-	µg/l			<5.1 U				
Pronamide	µg/l			<5.1 U				
Pyrene	µg/l			<5.1 U				
Pyridine	µg/l			<5.1 U				
Safrole	µg/l			<5.1 U				
Tetrachlorobenzene,1,2,4,5-	µg/l			<5.1 U				
Tetrachlorophenol,2,3,4,6-	µg/l			<5.1 U				
Toluidine,o-	µg/l			<5.1 U				
Trichlorophenol,2,4,5-	µg/l			<5.1 U				

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Trichlorophenol,2,4,6-	µg/l			<5.1 U				
Triethyl Phosphorothioate,o,o,o-	µg/l			<5.1 U				
Trinitrobenzene,1,3,5-	µg/l			<5.1 U				
Acetone	µg/l	<5.0 U			<5.0 U			
Acetonitrile	µg/l	<100 U R			<100 U			
Acrolein	µg/l	<50 U R			<50 U			
Acrylonitrile	µg/l	<5.0 U R			<5.0 U			
Allyl Chloride	µg/l	<5.0 U			<5.0 U			
Benzene	µg/l	<1.0 U			<1.0 U			
Bromoform	µg/l	<4.0 U			<4.0 U			
Carbon Disulfide	µg/l	<5.0 U			<5.0 U			
Carbon Tetrachloride	µg/l	<1.0 U			<1.0 U			
Chlorobenzene	µg/l	<4.0 U			<4.0 U			
Chlorodibromomethane	µg/l	<5.0 U			<5.0 U			
Chloroethane	µg/l	<5.0 U			<5.0 U			
Chloroform	µg/l	<5.0 U			<5.0 U			
Chloroprene,beta-	µg/l	<5.0 U			<5.0 U			
Dibromomethane	µg/l	<5.0 U			<5.0 U			
Dichlorobenzene,1,2-	µg/l			<5.1 U				
Dichlorobenzene,1,3-	µg/l			<5.1 U				
Dichlorobenzene,1,4-	µg/l			<5.1 U				
Dichlorobromomethane	µg/l	<1.0 U			<1.0 U			
Dichlorodifluoromethane	µg/l	<5.0 U			<5.0 U			
Dichloroethane,1,1-	µg/l	<5.0 U			<5.0 U			
Dichloroethane,1,2-	µg/l	<2.0 U			<2.0 U			
Dichloroethylene,1,1-	µg/l	<2.0 U			<2.0 U			
Dichloroethylene,1,2-cis-	µg/l	<5.0 U			1.1 J			
Dichloroethylene,1,2-trans-	µg/l	<5.0 U			<5.0 U			

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Dichloropropane,1,2-	µg/l	<1.0 U			<1.0 U			
Dichloropropylene,1,3-cis-	µg/l	<1.0 U			<1.0 U			
Dichloropropylene,1,3-trans-	µg/l	<1.0 U			<1.0 U			
Dioxane,1,4-	µg/l	<120 U R			<120 U			
Ethylbenzene	µg/l	<1.0 U			<1.0 U			
Ethylene Dibromide	µg/l	<5.0 U			<5.0 U			
Ethylmethacrylate	µg/l	<10 U			<10 U			
Hexanone,2-	µg/l	<5.0 U			<5.0 U			
Iodomethane	µg/l	<25 U			<25 U			
Isobutyl Alcohol	µg/l	<50 U R			<50 U			
Methacrylonitrile	µg/l	<10 U			<10 U			
Methyl Bromide	µg/l	<5.0 U			<5.0 U			
Methyl Chloride	µg/l	<5.0 U			<5.0 U			
Methyl Ethyl Ketone	µg/l	<5.0 U			<5.0 U			
Methyl Methacrylate	µg/l	<10 U			<10 U			
Methyl-2-pentanone,4-	µg/l	<5.0 U			<5.0 U			
Methyl-tert-butyl Ether	µg/l	15.4			2.4 J			
Methylene Chloride	µg/l	<2.0 U			<2.0 U			
Pentachlorobenzene	µg/l			<5.1 U				
Pentachloroethane	µg/l			<5.1 U				
Pentachloronitrobenzene	µg/l			<5.1 U				
Propionitrile	µg/l	<50 U R			<50 U			
Styrene	µg/l	<5.0 U			<5.0 U			
Tetrachloroethane,1,1,1,2-	µg/l	<5.0 U			<5.0 U			
Tetrachloroethane,1,1,2,2-	µg/l	<2.0 U			<2.0 U			
Tetrachloroethylene	µg/l	<1.0 U			<1.0 U			
Toluene	µg/l	<1.0 U			<1.0 U			
Trichlorobenzene,1,2,4-	µg/l			<5.1 U				

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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, 400 Main Street, East Hartford, CT - Willow Brook/Willow Brook Pond PCB Investigation

	Location ID	WT-PZ-09	WT-PZ-10	WT-PZ-11	WT-PZ-12			
	Sample ID	1834780	1834782	1834783	1834786			
	Sample Date	02/10/1999	02/10/1999	02/10/1999	02/10/1999			
	Sample Time	12:55	13:40	14:00	14:45			
	Sample Depth	7.0' - 17.0'	5.0' - 10.0'	3.0' - 12.0'	5.0' - 10.0'			
	Laboratory	accu	accu	accu	accu			
	Lab. Number	E45488-3	E45488-5	E45488-6	E45488-9			
Constituent	Units							
Trichloroethane,1,1,1-	µg/l	5.0 U			5.0 U			
Trichloroethane,1,1,2-	µg/l	3.0 U			3.0 U			
Trichloroethylene	µg/l	1.0 U			1.6			
Trichloromonofluoromethane	µg/l	5.0 U			5.0 U			
Trichloropropane,1,2,3-	µg/l	5.0 U			5.0 U			
Vinyl Acetate	µg/l	10 U			10 U			
Vinyl Chloride	µg/l	5.0 U			5.0 U			
Xylenes (Total)	µg/l	3.0 U			3.0 U			

Notes: 1. Printed on 11/09/99

DRAWINGS

US EPA New England
RCRA Document Management System
Image Target Sheet

RDMS Document ID # 100175

Facility Name: PRATT & WHITNEY MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-9

Purpose of Target Sheet:

[X] Oversized (in Site File) [ ] Oversized (in Map Drawer)

[ ] Page(s) Missing (Please Specify Below)

[ ] Privileged [ ] Other (Provide Purpose Below)

Description of Oversized Material, if applicable:

DRAWING 1: GROUNDWATER DATA - WILLOW BROOK/ WILLOW BROOK POND

[X] Map [ ] Photograph [ ] Other (Specify Below)

* Please Contact the EPA New England RCRA Records Center to View This Document *

APPENDIX A

Field Forms

LOUREIRO ENGINEERING ASSOCIATES, Inc.

DAILY FIELD REPORT

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 1 of 13
Date: 8/10/99
Inspectors: Jason Miller
Inspection Time:

Non-Productive Time

		Comments
☐	Weather	
☐	Equipment Breakdown	
☐	Missing Equipment	
☐	Late	
☐	Other	

Weather Temperature: High: 45 Low: 35 Wind: Speed: Direction:
Sky Conditions: Sunny + Partly Cloudy Precipitation:

Site Activity

- [x] Sampling Type GW Number 8 Number of Bottles Method Purge/Pump/Bail
- [ ] Surveying
- [ ] Well Drilling Type Feet Well Installed? Yes No
- [ ] Observation Brief Description
- [ ] Construction Supervision Brief Description
- [ ] Other Brief Description

Status of Total Production

Item	Number of Samples			Sample Records		Sampling Days	
	Today	Total to Date	% Complete	Number of Forms	% Complete	To Date	Remaining
GW	8	8	100	9	100	1	—
Total							

Field Personnel

Mark Budnick
~~James Lardie~~ Jason Miller

Entered in MIS

Signature: [signature]

fedfr1.rpt

LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.: **68VD153.**
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 2 of 13
Date: 2 / 10 / 99
Inspectors: Jason Miller
Inspection Time:

Description of Site Activities

on site 9:30.
Lunch 12:00
Back 12:30
finished sampling 15:30
Left site 15:45

other water levels

MW 09S - 9.35
MW 09I 9.39

Waste all went into Drum # 551931

Signature:

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LOUREIRO ENGINEERING ASSOCIATES, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Date: 02/10/99

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Container ID
1834778	WT PZ 131	1125	GW				551931
1834779	WT PZ-129	1150	GW				
1834780	WT-PZ-136	1255	GW				
1834781	WT-PZ-134	1320	GW				
1834782	WT PZ-139	1340	GW				
1834783	WT PZ-140	1400	GW				
1834784	WT PZ 124	1430	GW				
1834785	WT PZ 124	1430	GW			Dup of 1834784	
1834786	WT-PZ-142	1445	GW				
1834787	BKE	1515	—				
1834788	BKT	1645	—				

Samples sent to LEA Laboratory must be accompanied by Form leacust.rpt
Groundwater Samples must be accompanied by Form fedrg1.rpt

Field Personnel: Mark Budnick
~~James Lardie~~ Jason Miller

Signature:

fefsrs rpt

LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 4 of 13
Date: 2/10/99
Start: 11:15 Sample Time: 11:25
Finish: 11:30

Monitoring Well No.: WT PZ 131 Sample Number(s): 1834778

Monitoring Well Data

Well Depth: 16.45 Reference Used: Top of PVC

Depth to Water: 8.77 Interface Detected? Yes No If yes, : Lighter Heavier

Height of Water Column: 7.68

Casing: 0.5" (x .01) 2" (x .16) 1" (x .04) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .31

Casing Material: PVC X SS Other

Well Integrity:	Yes	No
Casing Secure?	✓	
Collar Intact?	✓	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: .94

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.31	.63	.94		
Temp (C)	12.2	12.0	12.0	12.1		
pH (SU)	6.52	6.50	6.48	6.43		
Specific Conductivity (µs/cm)	302	327	305	307		

Sample Observations Clear Colored Cloudy Turbid Odor Sheen

Comments: Sampling, SVOCs, PCBs

Equipment/Materials

Water Level/Depth Measured by WLT

Purge Method Peristaltic Pump Sampling Method Peristaltic Pump

Field Decon? Sample Filtered? Yes X No with

Comments:

Field Personnel:

Mark Budnick

~~James Lardie~~ Jason Milks

Signature:

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: **68VD153.**
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 5 of 13
Date: 2/10/98
Start: 11:40 Sample Time: 11:50
Finish: :

Monitoring Well No.: WT PZ 129 Sample Number(s): 1894779

Monitoring Well Data

Well Depth: 18.95 Reference Used: Top of PVC

Depth to Water: 8.20 Interface Detected? Yes No If yes, : Lighter Heavier

Height of Water Column: 10.75

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .1

Casing Material: PVC [X] SS [ ] Other [ ]

Well Integrity:	Yes	No
Casing Secure?	X	
Collar Intact?	X	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: 0

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	0.1	.2	.3		
Temp (C)	11.7	12.1	12.4	12.4		
pH (SU)	6.20	6.24	6.29	6.36		
Specific Conductivity (µs/cm)	940	961	984	824		

Sample Observations Clear [ ] Colored [ ] Cloudy [ ] Turbid [ ] Odor [ ] Sheen [ ]

Comments: VOCs PCBs TPH

Equipment/Materials

Water Level/Depth Measured by WLI

Purge Method Peristaltic Pump Sampling Method Peristaltic Pump

Field Decon? Sample Filtered? Yes No [X] with

Comments:

Field Personnel:

Mark Budnick

~~James Lardie~~ Jason Miller

Signature: [signature]

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: **68VD153.**
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 6 of 13
Date: 02/10/99
Start: 13:20
Finish: 15:46
Sample Time: 13:35

Monitoring Well No.: WT-PZ-134 Sample Number(s): 1834 781

Monitoring Well Data

Well Depth: 16.19 Reference Used: Top of PVC

Depth to Water: 7.56 Interface Detected? Yes No If yes, : Lighter Heavier

Height of Water Column: 8.64

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .35

Casing Material: PVC X SS Other

Well Integrity:	Yes	No
Casing Secure?	X	
Collar Intact?	X	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: 1.06

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.35	.71	1.06		
Temp (C)	12.0	12.5	12.0	12.3		
pH (SU)	5.77	5.95	5.97	5.94		
Specific Conductivity (µs/cm)	913	716	694	678		

Sample Observations Clear ___ Colored ___ Cloudy ___ Turbid ___ Odor ___ Sheen ___

Comments: VOCs, PCBs, Metals, TPH

Equipment/Materials

Water Level/Depth Measured by WLT

Purge Method Peristaltic Pump Sampling Method Peristaltic Pump

Field Decon? ___ Sample Filtered? Yes No with .45 µ

Comments: ___

Field Personnel: Mark Budnick

~~James Lardie~~ Jason Miller

Signature: [signature]

fedrg1 rpt

LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 7 of 13
Date: 2/10/99
Start: 13:35 Sample Time: 13:40
Finish: 13:45

Monitoring Well No.: WT PZ 139 Sample Number(s): 1534782

Monitoring Well Data

Well Depth: 11.35 Reference Used: Top of PVC

Depth to Water: 3.64 Interface Detected? Yes No If yes, : Lighter Heavier

Height of Water Column: 7.71

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .07

Casing Material: PVC ✓ SS ✓ Other

Well Integrity:	Yes	No
Casing Secure?	✓	
Collar Intact?	✓	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: 0

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.07	.14	.21		
Temp (C)	10.1	10.0	9.6	9.8		
pH (SU)	6.12	6.03	6.04	6.00		
Specific Conductivity (µs/cm)	159.2	237	164.5	177.0		

Sample Observations Clear ___ Colored ___ Cloudy ___ Turbid ___ Odor ___ Sheen ___

Comments: PCBs Metals TPH

Equipment/Materials

Water Level/Depth Measured by WLI

Purge Method Peristaltic Pump Sampling Method Peristaltic

Field Decon? ___ Sample Filtered? Yes ✓ No with .45 µm

Comments:

Field Personnel:

Mark Budnick

James Lardie Jason Muth

Signature: [signature]

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 8 of 13
Date: 2/10/98
Start: 12:45 Sample Time: 12:55
Finish: 13:05

Monitoring Well No.: WT PZ 136 Sample Number(s): 18 34 780

Monitoring Well Data

Well Depth: 15.20 Reference Used: Top of PVC

Depth to Water: 8.01 Interface Detected? Yes No If yes, : Lighter Heavier

Height of Water Column: 7.19

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .29

Casing Material: PVC ✓ SS Other

Well Integrity:	Yes	No
Casing Secure?	✓	
Collar Intact?	✓	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: .88

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.29	.59	.88		
Temp (C)	12.6	12.4	12.5	12.6		
pH (SU)	5.83	5.80	5.77	5.76		
Specific Conductivity (µs/cm)	308	273	254	248		

Sample Observations Clear ___ Colored ___ Cloudy ___ Turbid ___ Odor ___ Sheen ___

Comments: VOC's PCB's TPH

Equipment/Materials

Water Level/Depth Measured by WHI

Purge Method peristaltic pump Sampling Method Peristaltic Pump

Field Decon? ___ Sample Filtered? Yes No with ___

Comments: ___

Field Personnel:

Mark Budnick

James Lardie Jason Mills

Signature: [signature]

fedrgl rpt

LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: **68VD153.**
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 9 of 13
Date: 02/10/99
Start: 13:50 Sample Time: 14:00
Finish: 14:10

Monitoring Well No.: WT PZ 140 Sample Number(s): 1834783

Monitoring Well Data

Well Depth: 9.74
Reference Used: TOP OF PVC CASING
Depth to Water: 5.28
Interface Detected? Yes No If yes, : Lighter Heavier
Height of Water Column: 4.46

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .18

Casing Material: PVC [X] SS [ ] Other [ ]

Well Integrity:	Yes	No
Casing Secure?	X	
Collar Intact?	X	
Well Locked?		X
Other?		

Purge Data

Gallons to be Purged: 0.54

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.18	.36	.54		
Temp (C)	11.1	10.3	9.5	9.3		
pH (SU)	6.02	5.99	6.00	5.91		
Specific Conductivity (µs/cm)	227	219	229	242		

Sample Observations Clear [ ] Colored RED/BRN [X] Cloudy [ ] Turbid [X] Odor [ ] Sheen [ ]

Comments: SVOC's PCB's Metals

Equipment/Materials

Water Level/Depth Measured by ~~EL~~ WLI

Purge Method PERISTALTIC PUMP Sampling Method PER. PUMP

Field Decon? NO Sample Filtered? Yes [X] No with 0.45 µm inline

Comments:

Field Personnel:

Mark Budnick

Ja~~mes Lar~~die JASON MILLER

Signature: [signature]

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 10 of 13
Date: 2/10/99
Start: 14:20 Sample Time: 14:30
Finish: 14:45

Monitoring Well No.: WT-PZ 124 Sample Number(s): 1834784 1834785

Monitoring Well Data

Well Depth: 16.98
Reference Used: Top of PVC
Depth to Water: 9.23
Interface Detected? Yes No If yes, : Lighter Heavier
Height of Water Column: 7.75

Casing: 0.5" (x .01) 2" (x .16) 1" (x .041) 4" (x .65) 1.5" (x .091) 6" (x 1.5) __ (x __) .07

Casing Material: PVC ☒ SS ☐ Other ☐

Well Integrity:	Yes	No
Casing Secure?	✓	
Collar Intact?	✓	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: .23

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.07	.14	.23		
Temp (C)	13.3	13.2	13.4	13.5		
pH (SU)	6.74	6.75	6.75	6.73		
Specific Conductivity (µs/cm)	403.4	402	401	395		

Sample Observations Clear ☐ Colored ☐ Cloudy ☐ Turbid ☐ Odor ☐ Sheen ☐

Comments: ~~Eight~~ VOCs, SVOCs, PCB's metals, TPH

Equipment Materials

Water Level/Depth Measured by WLI

Purge Method Peristaltic Pump
Sampling Method Peristaltic Pump
Field Decon?
Sample Filtered? Yes No with .45 µm

Comments:

Field Personnel:

Mark Budnick
~~James~~ Lardie Jason Milk

Signature: [signature]

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD DATA RECORD GROUNDWATER

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 11 of 13
Date: 2/10/99
Start: 14:25 Sample Time: 14:45
Finish: 14:55

Monitoring Well No.: WT PZ 142 Sample Number(s): 1834786

Monitoring Well Data

Well Depth: 9.67
Reference Used: Top of PVC
Depth to Water: 5.00
Interface Detected? Yes No If yes, : Lighter Heavier
Height of Water Column: 4.67

Casing: 0.5" (x .01) 2" (x .16)
1" (x .041) 4" (x .65)
1.5" (x .091) 6" (x 1.5)
__ (x __) .19

Casing Material: PVC X SS Other

Well Integrity:	Yes	No
Casing Secure?	✓	
Collar Intact?	✓	
Well Locked?		
Other?		

Purge Data

Gallons to be Purged: .57

	Initial	Volume 1	Volume 2	Volume 3	Volume 4	Final/Sample
Gallons Purged	0	.19	.38	.57		
Temp (C)	10.8	11.0	11.0	10.9		
pH (SU)	6.41	6.40	6.37	6.32		
Specific Conductivity (µs/cm)	240	248	243	244		

Sample Observations Clear Colored Cloudy SLIGHTLY ✓ Turbid Odor Sheen

Comments: VOCs PCBs TPH

Equipment/Materials

Water Level/Depth Measured by WLI

Purge Method PERISTALTIC PUMP
Sampling Method PER PUMP
Field Decon? NO
Sample Filtered? Yes No with ~~0.45 µm inline~~ MQR MAB

Comments:

Field Personnel:

Mark Budnick
~~James Eardie~~ JASON MILLER

Signature: [signature]

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LOUREIRO ENGINEERING ASSOCIATES, Inc. LEA

FIELD INSTRUMENTATION & QUALITY ASSURANCE RECORD

LEA Comm. No.: 68VD153.

Page 12 of 13

Date: 2/10/99

Project: unknown

Location: P&W East Hartford

Client: Pratt & Whitney East Hartford

Field Instrumentation Calibration Data

Instrument		Calibration Information			
pH/Conductivity Meter		Temp. Comp.	Buffers Used/Meter Value		Conductivity Readings
ORION MODEL 250A	✓ pH	✓ Yes	✓ pH 4	4.00	Meter Value Dry
	✓ Temperature	No	✓ pH 7	7.00	Standard Value
	Conductivity		pH 10		Meter Value
Instrument Type/ID#					
Comments:					

pH/Conductivity Meter		Temp. Comp.	Buffers Used/Meter Value		Conductivity Readings
COLE PARMER CB51-00	pH	✓ Yes	pH 4		Meter Value Dry 000
	✓ Temperature	No	pH 7		Standard Value 1280
	✓ Conductivity		pH 10		Meter Value 10480
Instrument Type/ID#					
Comments:					

PID/FID Meter

	PID (VOC Analyzer)	Zero w/ Background	Span Gas Value
	FID (VOC Analyzer)	Zero w/ Air	
Instrument Type/ID#			Meter Value

Comments:

Analytical Balance

Calibration Mass _____ Instrument Value _____

Instrument Type/ID#

Comments:

Other

Instrument Type/ID#

Calibration Description:

Comments:

Fluids/Materials Record

Water: Type: _____ Source: _____

	Lot No:		Lot No:
Decon: Non-Phosphate Soap		20% Nitric	
>20% Methanol		Other	

Field Personnel: Mark Budnick

~~James Lardie~~ Jason Miller

Signature:

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LOUREIRO ENGINEERING ASSOCIATES, P.C.

FIELD QUALITY REVIEW
Checklist

LEA Comm. No.: 68VD153.
Project: unknown
Location: P&W East Hartford
Client: Pratt & Whitney East Hartford

Page 13 of 13
Date: 2/10/99

	Yes	No	Corrective Action Taken/Comment:
Sample Labels Complete?	✓		
Sample Seals Used?		✓	
Field Log Book Complete?		✓	
All Planned Samples Obtained?	✓		
All Chain of Custody Forms Complete?	✓		
Monitoring Well Physical Data Forms Complete?	✓		
Field Sample Record Forms Complete?	✓		
Daily Field Report Form Complete?	✓		
Field Instrument & Quality Assurance Record Complete?	✓		
Field Data Record - Groundwater From Complete	✓		
All Field Generated QA/QC Samples Collected?	✓		
Final Site Walkover Complete?	✓		
Field Quality Review Checklist Complete?	✓		

Comments

Field Personnel: Mark Budnick
~~James Lardie~~ Jason Miller

Signature:

fefqr2.rpt

CHAIN OF CUSTODY

ACCUTEST

FRESH PONDS CORPORATE VILLAGE, BUILDING B
2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #:

ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Pratt & Whitney
ADDRESS: 400 Main St
CITY, STATE, ZIP: East Hartford CT 06108
SEND REPORT TO:
PHONE #:

FACILITY INFORMATION

PROJECT NAME: Willow Pond Ground Water Monitoring
LOCATION: East Hartford CT
PROJECT NO.: 68VD153
FAX #:

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs	SVOCs	PCBs	RCRA 8 Metals + Nitr Zn	TPH	LAB USE ONLY
	1834778	2/10/99	1125	JHM	GW	3					X		2	1			
	1834779		1150			5	X					3		1		1	
	1834780		12:55			5	X					3		1		1	
	1834781		1320			6	X		X			3		1	1	1	
	1834782		1340			3	X		X					1	1	1	
	1834783		1400			4			X				2	1	1		
	1834784		1430			8	X		X			3	2	1	1	1	
	1834785		1430			8	X		X			3	2	1	1	1	
	1834786		1445			5	X					3		1		1	
	1834787		1515			7	X		X			2	2	1	1	1	
	1834788		1645			2	X					2					

DATA TURNAROUND INFORMATION

- [x] 21 DAYS STANDARD
- [ ] 14 DAYS *RUSH*
- [ ] 7 DAYS *EMERGENCY*
- [ ] OTHER

APPROVED BY:

21 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] NJ REDUCED
- [ ] NJ Full
- [ ] FULL CLP
- [ ] DISK DELIVERABLE
- [ ] OTHER (SPECIFY)
- [ ] COMMERCIAL "A"
- [ ] COMMERCIAL "B"
- [ ] STATE FORMS

COMMENTS/REMARKS

Standard Pratt & Whitney Deliverable, Data Validation Package Requested Electronic Copy Requested TASK MI 015

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/10/99 1730	1. [signature] 2/12/99 1030	2.		2.
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐ TEMPERATURE ____ C

APPENDIX B

Laboratory Reports

ACCUTEST.

Report of Analysis

Client Sample ID:	1834778		
Lab Sample ID:	E45488-1	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1639.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	ug/l	
88-85-7	Dinoseb	ND	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	ug/l	
	3&4-Methylphenol	ND	5.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	21	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.2	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.2	ug/l	
83-32-9	Acenaphthene	ND	5.2	ug/l	
208-96-8	Acenaphthylene	ND	5.2	ug/l	
98-86-2	Acetophenone	ND	5.2	ug/l	
62-53-3	Aniline	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
140-57-8	Aramite	ND	5.2	ug/l	
122-09-8	A,A-Dimethylphenethylamine	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834778		
Lab Sample ID:	E45488-1	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1639.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
86-74-8	Carbazole	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
119-93-7	3,3'-Dimethylbenzidine	ND	5.2	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrace	ND	5.2	ug/l	
2303-16-4	Diallate	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
132-64-9	Dibenzofuran	ND	5.2	ug/l	
60-51-5	Dimethoate	ND	5.2	ug/l	
122-39-4	Diphenylamine	ND	5.2	ug/l	
298-04-4	Disulfoton	ND	5.2	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.2	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	ug/l	
62-50-0	Ethyl methanesulfonate	ND	5.2	ug/l	
52-85-7	Famphur	ND	5.2	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	ND	5.2	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
70-30-4	Hexachlorophene	ND	5.2	ug/l	

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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834778		
Lab Sample ID:	E45488-1	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1639.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1888-71-7	Hexachloropropene	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
120-58-1	Isosafrole	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
56-49-5	3-Methylcholanthrene	ND	5.2	ug/l	
91-80-5	Methapyrilene	ND	5.2	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.2	ug/l	
298-00-0	Methyl parathion	ND	5.2	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.2	ug/l	
134-32-7	1-Naphthylamine	ND	5.2	ug/l	
91-59-8	2-Naphthylamine	ND	5.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.2	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.2	ug/l	
59-89-2	N-Nitrosomorpholine	ND	5.2	ug/l	
100-75-4	N-Nitrosopiperidine	ND	5.2	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	5.2	ug/l	
126-68-1	O,O,O-Triethyl phosphorothic	ND	5.2	ug/l	
109-06-8	2-Picoline	ND	5.2	ug/l	
56-38-2	Parathion	ND	5.2	ug/l	
76-01-7	Pentachloroethane	ND	5.2	ug/l	
608-93-5	Pentachlorobenzene	ND	5.2	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.2	ug/l	
62-44-2	Phenacetin	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	

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RDL = Reported Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834778		
Lab Sample ID:	E45488-1	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1639.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
298-02-2	Phorate	ND	5.2	ug/l	
23950-58-5	Pronamide	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
110-86-1	Pyridine	ND	5.2	ug/l	
106-50-3	p-Phenylenediamine	ND	5.2	ug/l	
94-59-7	Safrole	ND	5.2	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	
297-97-2	Thionazin	ND	5.2	ug/l	
95-53-4	o-Toluidine	ND	5.2	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.2	ug/l	
3689-24-5	Tetraethyl dithiopyrophosphat	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		21-100%
4165-62-2	Phenol-d5	21%		10-94%
118-79-6	2,4,6-Tribromophenol	79%		10-123%
4165-60-0	Nitrobenzene-d5	89%		35-114%
321-60-8	2-Fluorobiphenyl	83%		43-116%
1718-51-0	Terphenyl-d14	91%		33-141%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834778		
Lab Sample ID:	E45488-1	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32117.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.55	ug/l	
11104-28-2	Aroclor 1221	ND	0.55	ug/l	
11141-16-5	Aroclor 1232	ND	0.55	ug/l	
53469-21-9	Aroclor 1242	ND	0.55	ug/l	
12672-29-6	Aroclor 1248	ND	0.55	ug/l	
11097-69-1	Aroclor 1254	ND	0.55	ug/l	
11096-82-5	Aroclor 1260	ND	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		30-150%
877-09-8	Tetrachloro-m-xylene	67%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%
2051-24-3	Decachlorobiphenyl	79%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834779		
Lab Sample ID:	E45488-2	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17050.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834779		
Lab Sample ID:	E45488-2	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17050.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		86-118%
17060-07-0	1,2-Dichloroethane-D4	101%		76-114%
2037-26-5	Toluene-D8	109%		88-110%
460-00-4	4-Bromofluorobenzene	114%		86-115%

ND = Not detected
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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834779		
Lab Sample ID:	E45488-2	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32118.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.55	ug/l	
11104-28-2	Aroclor 1221	ND	0.55	ug/l	
11141-16-5	Aroclor 1232	ND	0.55	ug/l	
53469-21-9	Aroclor 1242	ND	0.55	ug/l	
12672-29-6	Aroclor 1248	ND	0.55	ug/l	
11097-69-1	Aroclor 1254	ND	0.55	ug/l	
11096-82-5	Aroclor 1260	ND	0.55	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		30-150%
877-09-8	Tetrachloro-m-xylene	54%		30-150%
2051-24-3	Decachlorobiphenyl	74%		30-150%
2051-24-3	Decachlorobiphenyl	73%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834779		
Lab Sample ID:	E45488-2	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	1.3	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

RDL = Reported Detection Limit

ACCUTEST

Report of Analysis

Client Sample ID:	1834780		
Lab Sample ID:	E45488-3	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17051.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834780		
Lab Sample ID:	E45488-3	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17051.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	15.4	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		86-118%
17060-07-0	1,2-Dichloroethane-D4	101%		76-114%
2037-26-5	Toluene-D8	107%		88-110%
460-00-4	4-Bromofluorobenzene	114%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834780		
Lab Sample ID:	E45488-3	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32119.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	3.7	0.50	ug/l	
11097-69-1	Aroclor 1254	4.2	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		30-150%
877-09-8	Tetrachloro-m-xylene	65%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%
2051-24-3	Decachlorobiphenyl	68%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834780		
Lab Sample ID:	E45488-3	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	3.3	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834781		
Lab Sample ID:	E45488-4	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17052.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834781		
Lab Sample ID:	E45488-4	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17052.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	2.6	5.0	ug/l	J
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		86-118%
17060-07-0	1,2-Dichloroethane-D4	98%		76-114%
2037-26-5	Toluene-D8	106%		88-110%
460-00-4	4-Bromofluorobenzene	115%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834781		
Lab Sample ID:	E45488-4	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32120.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-150%
877-09-8	Tetrachloro-m-xylene	74%		30-150%
2051-24-3	Decachlorobiphenyl	64%		30-150%
2051-24-3	Decachlorobiphenyl	64%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834781		
Lab Sample ID:	E45488-4	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	219	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	101	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834781		
Lab Sample ID:	E45488-4	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	0.65	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

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RDL = Reported Detection Limit

ACCUTEST

Report of Analysis

Client Sample ID:	1834782		
Lab Sample ID:	E45488-5	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32123.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	1.7	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		30-150%
877-09-8	Tetrachloro-m-xylene	52%		30-150%
2051-24-3	Decachlorobiphenyl	63%		30-150%
2051-24-3	Decachlorobiphenyl	61%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834782		
Lab Sample ID:	E45488-5	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	4.1	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	<200	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	<20	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834782		
Lab Sample ID:	E45488-5	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	0.86	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

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RDL = Reported Detection Limit

ACCUTEST

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1642.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.1	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	ug/l	
88-85-7	Dinoseb	ND	5.1	ug/l	
95-48-7	2-Methylphenol	ND	5.1	ug/l	
	3&4-Methylphenol	ND	5.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	20	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.1	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.1	ug/l	
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
98-86-2	Acetophenone	ND	5.1	ug/l	
62-53-3	Aniline	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
140-57-8	Aramite	ND	5.1	ug/l	
122-09-8	A,A-Dimethylphenethylamine	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
100-51-6	Benzyl Alcohol	ND	5.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1642.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
86-74-8	Carbazole	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.1	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.1	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	ug/l	
119-93-7	3,3'-Dimethylbenzidine	ND	5.1	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrace	ND	5.1	ug/l	
2303-16-4	Diallate	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
132-64-9	Dibenzofuran	ND	5.1	ug/l	
60-51-5	Dimethoate	ND	5.1	ug/l	
122-39-4	Diphenylamine	ND	5.1	ug/l	
298-04-4	Disulfoton	ND	5.1	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.1	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.1	ug/l	
62-50-0	Ethyl methanesulfonate	ND	5.1	ug/l	
52-85-7	Famphur	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	ug/l	
67-72-1	Hexachloroethane	ND	5.1	ug/l	
70-30-4	Hexachlorophene	ND	5.1	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1642.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1888-71-7	Hexachloropropene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
78-59-1	Isophorone	ND	5.1	ug/l	
120-58-1	Isosafrole	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
56-49-5	3-Methylcholanthrene	ND	5.1	ug/l	
91-80-5	Methapyrilene	ND	5.1	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.1	ug/l	
298-00-0	Methyl parathion	ND	5.1	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.1	ug/l	
134-32-7	1-Naphthylamine	ND	5.1	ug/l	
91-59-8	2-Naphthylamine	ND	5.1	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
98-95-3	Nitrobenzene	ND	5.1	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	5.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.1	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.1	ug/l	
59-89-2	N-Nitrosomorpholine	ND	5.1	ug/l	
100-75-4	N-Nitrosopiperidine	ND	5.1	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	5.1	ug/l	
126-68-1	O,O,O-Triethyl phosphorothic	ND	5.1	ug/l	
109-06-8	2-Picoline	ND	5.1	ug/l	
56-38-2	Parathion	ND	5.1	ug/l	
76-01-7	Pentachloroethane	ND	5.1	ug/l	
608-93-5	Pentachlorobenzene	ND	5.1	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.1	ug/l	
62-44-2	Phenacetin	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	

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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1642.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
298-02-2	Phorate	ND	5.1	ug/l	
23950-58-5	Pronamide	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
110-86-1	Pyridine	ND	5.1	ug/l	
106-50-3	p-Phenylenediamine	ND	5.1	ug/l	
94-59-7	Safrole	ND	5.1	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/l	
297-97-2	Thionazin	ND	5.1	ug/l	
95-53-4	o-Toluidine	ND	5.1	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.1	ug/l	
3689-24-5	Tetraethyl dithiopyrophosphat	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		21-100%
4165-62-2	Phenol-d5	22%		10-94%
118-79-6	2,4,6-Tribromophenol	80%		10-123%
4165-60-0	Nitrobenzene-d5	91%		35-114%
321-60-8	2-Fluorobiphenyl	85%		43-116%
1718-51-0	Terphenyl-d14	95%		33-141%

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ACCUTEST.

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32124.D	1	02/16/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	78%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%
2051-24-3	Decachlorobiphenyl	66%		30-150%

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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834783		
Lab Sample ID:	E45488-6	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	<200	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	<20	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17053.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	2.2	5.0	ug/l	J
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

ND = Not detected
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E = Indicates value exceeds calibration range

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17053.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		86-118%
17060-07-0	1,2-Dichloroethane-D4	101%		76-114%
2037-26-5	Toluene-D8	109%		88-110%
460-00-4	4-Bromofluorobenzene	114%		86-115%

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ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1643.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	ug/l	
88-85-7	Dinoseb	ND	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	ug/l	
	3&4-Methylphenol	ND	5.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	21	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.2	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.2	ug/l	
83-32-9	Acenaphthene	3.2	5.2	ug/l	J
208-96-8	Acenaphthylene	ND	5.2	ug/l	
98-86-2	Acetophenone	ND	5.2	ug/l	
62-53-3	Aniline	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
140-57-8	Aramite	ND	5.2	ug/l	
122-09-8	A,A-Dimethylphenethylamine	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
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ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1643.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
86-74-8	Carbazole	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
119-93-7	3,3'-Dimethylbenzidine	ND	5.2	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrace	ND	5.2	ug/l	
2303-16-4	Diallate	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
132-64-9	Dibenzofuran	ND	5.2	ug/l	
60-51-5	Dimethoate	ND	5.2	ug/l	
122-39-4	Diphenylamine	ND	5.2	ug/l	
298-04-4	Disulfoton	ND	5.2	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.2	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.2	5.2	ug/l	J
62-50-0	Ethyl methanesulfonate	ND	5.2	ug/l	
52-85-7	Famphur	ND	5.2	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	0.50	5.2	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
70-30-4	Hexachlorophene	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1643.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1888-71-7	Hexachloropropene	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
120-58-1	Isosafrole	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
56-49-5	3-Methylcholanthrene	ND	5.2	ug/l	
91-80-5	Methapyrilene	ND	5.2	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.2	ug/l	
298-00-0	Methyl parathion	ND	5.2	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.2	ug/l	
134-32-7	1-Naphthylamine	ND	5.2	ug/l	
91-59-8	2-Naphthylamine	ND	5.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.2	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.2	ug/l	
59-89-2	N-Nitrosomorpholine	ND	5.2	ug/l	
100-75-4	N-Nitrosopiperidine	ND	5.2	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	5.2	ug/l	
126-68-1	O,O,O-Triethyl phosphorothic	ND	5.2	ug/l	
109-06-8	2-Picoline	ND	5.2	ug/l	
56-38-2	Parathion	ND	5.2	ug/l	
76-01-7	Pentachloroethane	ND	5.2	ug/l	
608-93-5	Pentachlorobenzene	ND	5.2	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.2	ug/l	
62-44-2	Phenacetin	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1643.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
298-02-2	Phorate	ND	5.2	ug/l	
23950-58-5	Pronamide	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
110-86-1	Pyridine	ND	5.2	ug/l	
106-50-3	p-Phenylenediamine	ND	5.2	ug/l	
94-59-7	Safrole	ND	5.2	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	
297-97-2	Thionazin	ND	5.2	ug/l	
95-53-4	o-Toluidine	ND	5.2	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.2	ug/l	
3689-24-5	Tetraethyl dithiopyrophosphat	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		21-100%
4165-62-2	Phenol-d5	36%		10-94%
118-79-6	2,4,6-Tribromophenol	78%		10-123%
4165-60-0	Nitrobenzene-d5	85%		35-114%
321-60-8	2-Fluorobiphenyl	81%		43-116%
1718-51-0	Terphenyl-d14	86%		33-141%

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32125.D	1	02/17/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-150%
877-09-8	Tetrachloro-m-xylene	69%		30-150%
2051-24-3	Decachlorobiphenyl	80%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	<200	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	<20	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834784		
Lab Sample ID:	E45488-7	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	0.62	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

RDL = Reported Detection Limit

ACCUTEST

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17054.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	2.0	5.0	ug/l	J
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17054.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		86-118%
17060-07-0	1,2-Dichloroethane-D4	104%		76-114%
2037-26-5	Toluene-D8	104%		88-110%
460-00-4	4-Bromofluorobenzene	115%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1644.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	ug/l	
88-85-7	Dinoseb	ND	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	ug/l	
	3&4-Methylphenol	ND	5.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	21	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.2	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.2	ug/l	
83-32-9	Acenaphthene	3.3	5.2	ug/l	J
208-96-8	Acenaphthylene	ND	5.2	ug/l	
98-86-2	Acetophenone	ND	5.2	ug/l	
62-53-3	Aniline	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
140-57-8	Aramite	ND	5.2	ug/l	
122-09-8	A,A-Dimethylphenethylamine	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1644.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
86-74-8	Carbazole	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
119-93-7	3,3'-Dimethylbenzidine	ND	5.2	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrace	ND	5.2	ug/l	
2303-16-4	Diallate	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
132-64-9	Dibenzofuran	ND	5.2	ug/l	
60-51-5	Dimethoate	ND	5.2	ug/l	
122-39-4	Diphenylamine	ND	5.2	ug/l	
298-04-4	Disulfoton	ND	5.2	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.2	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.5	5.2	ug/l	J
62-50-0	Ethyl methanesulfonate	ND	5.2	ug/l	
52-85-7	Famphur	ND	5.2	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	0.48	5.2	ug/l	J
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
70-30-4	Hexachlorophene	ND	5.2	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8270C	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1644.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1888-71-7	Hexachloropropene	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
120-58-1	Isosafrole	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
56-49-5	3-Methylcholanthrene	ND	5.2	ug/l	
91-80-5	Methapyrilene	ND	5.2	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.2	ug/l	
298-00-0	Methyl parathion	ND	5.2	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.2	ug/l	
134-32-7	1-Naphthylamine	ND	5.2	ug/l	
91-59-8	2-Naphthylamine	ND	5.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.2	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.2	ug/l	
59-89-2	N-Nitrosomorpholine	ND	5.2	ug/l	
100-75-4	N-Nitrosopiperidine	ND	5.2	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	5.2	ug/l	
126-68-1	O,O,O-Triethyl phosphorothic	ND	5.2	ug/l	
109-06-8	2-Picoline	ND	5.2	ug/l	
56-38-2	Parathion	ND	5.2	ug/l	
76-01-7	Pentachloroethane	ND	5.2	ug/l	
608-93-5	Pentachlorobenzene	ND	5.2	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.2	ug/l	
62-44-2	Phenacetin	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1644.D	1	03/04/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
298-02-2	Phorate	ND	5.2	ug/l	
23950-58-5	Pronamide	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
110-86-1	Pyridine	ND	5.2	ug/l	
106-50-3	p-Phenylenediamine	ND	5.2	ug/l	
94-59-7	Safrole	ND	5.2	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	
297-97-2	Thionazin	ND	5.2	ug/l	
95-53-4	o-Toluidine	ND	5.2	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.2	ug/l	
3689-24-5	Tetraethyl dithiopyrophosphat	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		21-100%
4165-62-2	Phenol-d5	20%		10-94%
118-79-6	2,4,6-Tribromophenol	84%		10-123%
4165-60-0	Nitrobenzene-d5	82%		35-114%
321-60-8	2-Fluorobiphenyl	81%		43-116%
1718-51-0	Terphenyl-d14	87%		33-141%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32126.D	1	02/17/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-150%
877-09-8	Tetrachloro-m-xylene	69%		30-150%
2051-24-3	Decachlorobiphenyl	82%		30-150%
2051-24-3	Decachlorobiphenyl	81%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	<200	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	<20	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834785		
Lab Sample ID:	E45488-8	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	*Result*	*RDL*	*Units*	*DF*	Analyzed By		Method
Petroleum Hydrocarbons	0.70	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834786		
Lab Sample ID:	E45488-9	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17089.D	1	02/22/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	5.0	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

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ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834786		
Lab Sample ID:	E45488-9	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17089.D	1	02/22/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	2.4	5.0	ug/l	J
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	1.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-118%
17060-07-0	1,2-Dichloroethane-D4	96%		76-114%
2037-26-5	Toluene-D8	100%		88-110%
460-00-4	4-Bromofluorobenzene	108%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834786		
Lab Sample ID:	E45488-9	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8082	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32127.D	1	02/17/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-150%
877-09-8	Tetrachloro-m-xylene	76%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	75%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834786		
Lab Sample ID:	E45488-9	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	<0.50	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17088.D	1	02/22/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17088.D	1	02/22/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		86-118%
17060-07-0	1,2-Dichloroethane-D4	101%		76-114%
2037-26-5	Toluene-D8	106%		88-110%
460-00-4	4-Bromofluorobenzene	114%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1645.D	1	03/05/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.2	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.2	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
87-65-0	2,6-Dichlorophenol	ND	5.2	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	ug/l	
88-85-7	Dinoseb	ND	5.2	ug/l	
95-48-7	2-Methylphenol	ND	5.2	ug/l	
	3&4-Methylphenol	ND	5.2	ug/l	
88-75-5	2-Nitrophenol	ND	5.2	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	21	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.2	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.2	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.2	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.2	ug/l	
83-32-9	Acenaphthene	ND	5.2	ug/l	
208-96-8	Acenaphthylene	ND	5.2	ug/l	
98-86-2	Acetophenone	ND	5.2	ug/l	
62-53-3	Aniline	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
140-57-8	Aramite	ND	5.2	ug/l	
122-09-8	A,A-Dimethylphenethylamine	ND	5.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
100-51-6	Benzyl Alcohol	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	5.2	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1645.D	1	03/05/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
86-74-8	Carbazole	ND	5.2	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.2	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.2	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
119-93-7	3,3'-Dimethylbenzidine	ND	5.2	ug/l	
57-97-6	7,12-Dimethylbenz(a)anthrace	ND	5.2	ug/l	
2303-16-4	Diallate	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
132-64-9	Dibenzofuran	ND	5.2	ug/l	
60-51-5	Dimethoate	ND	5.2	ug/l	
122-39-4	Diphenylamine	ND	5.2	ug/l	
298-04-4	Disulfoton	ND	5.2	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.2	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.2	ug/l	
62-50-0	Ethyl methanesulfonate	ND	5.2	ug/l	
52-85-7	Famphur	ND	5.2	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	ND	5.2	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	21	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
70-30-4	Hexachlorophene	ND	5.2	ug/l	

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ND = Not detected
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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1645.D	1	03/05/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1888-71-7	Hexachloropropene	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
120-58-1	Isosafrole	ND	5.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.2	ug/l	
56-49-5	3-Methylcholanthrene	ND	5.2	ug/l	
91-80-5	Methapyrilene	ND	5.2	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.2	ug/l	
298-00-0	Methyl parathion	ND	5.2	ug/l	
130-15-4	1,4-Naphthoquinone	ND	5.2	ug/l	
134-32-7	1-Naphthylamine	ND	5.2	ug/l	
91-59-8	2-Naphthylamine	ND	5.2	ug/l	
88-74-4	2-Nitroaniline	ND	5.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.2	ug/l	
100-01-6	4-Nitroaniline	ND	5.2	ug/l	
99-55-8	5-Nitro-o-toluidine	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	ug/l	
56-57-5	4-Nitroquinoline 1-Oxide	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.2	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
10595-95-6	N-Nitrosomethylethylamine	ND	5.2	ug/l	
59-89-2	N-Nitrosomorpholine	ND	5.2	ug/l	
100-75-4	N-Nitrosopiperidine	ND	5.2	ug/l	
930-55-2	N-Nitrosopyrrolidine	ND	5.2	ug/l	
126-68-1	O,O,O-Triethyl phosphorothic	ND	5.2	ug/l	
109-06-8	2-Picoline	ND	5.2	ug/l	
56-38-2	Parathion	ND	5.2	ug/l	
76-01-7	Pentachloroethane	ND	5.2	ug/l	
608-93-5	Pentachlorobenzene	ND	5.2	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.2	ug/l	
62-44-2	Phenacetin	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	

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ND = Not detected
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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
Method:	SW846 8270C	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M1645.D	1	03/05/99	WHS	02/13/99	OP4941	EM46
Run #2							

ABN Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
298-02-2	Phorate	ND	5.2	ug/l	
23950-58-5	Pronamide	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
110-86-1	Pyridine	ND	5.2	ug/l	
106-50-3	p-Phenylenediamine	ND	5.2	ug/l	
94-59-7	Safrole	ND	5.2	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	
297-97-2	Thionazin	ND	5.2	ug/l	
95-53-4	o-Toluidine	ND	5.2	ug/l	
99-35-4	sym-Trinitrobenzene	ND	5.2	ug/l	
3689-24-5	Tetraethyl dithiopyrophosphat	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		21-100%
4165-62-2	Phenol-d5	19%		10-94%
118-79-6	2,4,6-Tribromophenol	76%		10-123%
4165-60-0	Nitrobenzene-d5	83%		35-114%
321-60-8	2-Fluorobiphenyl	82%		43-116%
1718-51-0	Terphenyl-d14	89%		33-141%

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N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	Date Sampled:	02/10/99
Matrix:	AQ - Ground Water	Date Received:	02/12/99
Method:	SW846 8082	Percent Solids:	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD32128.D	1	02/17/99	KLS	02/15/99	OP4923	GCD1294
Run #2							

PCB List

CAS No.	Compound	Result	RDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		30-150%
877-09-8	Tetrachloro-m-xylene	68%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Barium	<200	200	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Cadmium	<4.0	4.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Chromium	<10	10	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Lead	<3.0	3.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Mercury	<0.20	0.20	ug/l	1	02/19/99	02/19/99	PGC	EPA 245.1
Nickel	<40	40	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Selenium	<5.0	5.0	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7
Silver	<10	10	ug/l	1	02/22/99	03/01/99	ND	EPA 200.7
Zinc	<20	20	ug/l	1	02/22/99	02/24/99	RA	EPA 200.7

RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834787		
Lab Sample ID:	E45488-10	**Date Sampled:**	02/10/99
Matrix:	AQ - Ground Water	**Date Received:**	02/12/99
		Percent Solids:	n/a
Project:	Task MI015		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By		Method
Petroleum Hydrocarbons	0.66	0.50	mg/l	1	02/16/99	MKR	EPA 418.1

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RDL = Reported Detection Limit

ACCUTEST.

Report of Analysis

Client Sample ID:	1834788		
Lab Sample ID:	E45488-11	**Date Sampled:**	02/08/99
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17049.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
75-05-8	Acetonitrile	ND	100	ug/l	
107-02-8	Acrolein	ND	50	ug/l	
107-13-1	Acrylonitrile	ND	5.0	ug/l	
107-05-1	Allyl chloride	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
74-83-9	Bromomethane	ND	5.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	5.0	ug/l	
74-87-3	Chloromethane	ND	5.0	ug/l	
126-99-8	Chloroprene	ND	5.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
123-91-1	1,4-Dioxane	ND	120	ug/l	
97-63-2	Ethyl methacrylate	ND	10	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
74-88-4	Iodomethane	ND	25	ug/l	
78-83-1	Isobutyl alcohol	ND	50	ug/l	
126-98-7	Methacrylonitrile	ND	10	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	1834788		
Lab Sample ID:	E45488-11	**Date Sampled:**	02/08/99
Matrix:	AQ - Trip Blank Soil	**Date Received:**	02/12/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Task MI015		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O17049.D	1	02/19/99	GTT	n/a	n/a	VO1550
Run #2							

VOA Appendix IX List

CAS No.	Compound	Result	RDL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/l	
80-62-6	Methyl methacrylate	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
107-12-0	Propionitrile	ND	50	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	3.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-118%
17060-07-0	1,2-Dichloroethane-D4	99%		76-114%
2037-26-5	Toluene-D8	104%		88-110%
460-00-4	4-Bromofluorobenzene	112%		86-115%

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N = Indicates presumptive evidence of a compound

ACCUTEST®

CHAIN OF CUSTODY

FRESH PONDS CORPORATE VILLAGE, BUILDING B
2235 ROUTE 130, DAYTON, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

ACCUTEST JOB #: E45488
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: Pratt & Whitney (LEACTP)
ADDRESS: 400 Main St
CITY, STATE, ZIP: East Hartford CT 06108
SEND REPORT TO:
PHONE #

FACILITY INFORMATION

PROJECT NAME: Willow Pond Ground Water Monitoring
LOCATION: East Hartford CT
PROJECT NO.: 68VD153
FAX #

ANALYTICAL INFORMATION

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	VOCs	SVOCs	PCBs	*RCRA 8 Metals + Ni+Zn	TPH	LAB USE ONLY
-1	1834778	2/10/99	1125	JHM	GW	3					X		2	1			2T!
-2	1834779		1150			5	X					3		1		1	6F! 2055!
-3	1834780		12:55			5	X					3		1		1	
-4	1834781		1320			6	X		X			3		1	1	1	7L!
-5	1834782		1340			3	X		X					1	1	1	
-6	1834783		1400			4			X				2	1	1		
-7	1834784		1430			8	X		X			3	2	1	1	1	6F! 2055!
-8	1834785		1430			8	X		X			3	2	1	1	1	
-9	1834786		1445			5	X					3		1		1	
-10	1834787		1515			7	X		X			2	2	1	1	1	7L!
-11	*TB actually filled 2-8-99 @ 1630 by JV per original spx label @ 1834788	*	~~1645~~		TB	2	X					2					

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

DATA TURNAROUND INFORMATION

- [x] 21 DAYS STANDARD
- [ ] 14 DAYS *RUSH*
- [ ] 7 DAYS *EMERGENCY*
- [ ] OTHER

APPROVED BY:

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] NJ REDUCED
- [x] NJ Full
- [ ] FULL CLP
- [ ] DISK DELIVERABLE
- [ ] OTHER (SPECIFY)
- [ ] COMMERCIAL "A"
- [ ] COMMERCIAL "B"
- [ ] STATE FORMS

COMMENTS/REMARKS

Standard Pratt & Whitney Deliverable, Data Validation Package Requested Electronic Copy Requested TASK MI 015

* All metals volumes labeled as being filtered; C.S. to confirm if metals are to be reported as Total or Dissolved @ 2/10/99

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	2/10/99 1730	1. [signature] 2/12/99 1030	2. [signature]	2/12/99 1525	2. [signature]
3.		3.	4.		4.
5.		5.			

SEAL # 6587, 6591, + 6597 rec'd in lab by Accutest Personnel @

PRESERVE WHERE APPLICABLE ☑ ON ICE ☑ TEMPERATURE 2.3° C