ANALYTICAL REPORT
Prepared by
Roy F. Weston, Inc.

Perth Amboy Well Field
Perth Amboy, NJ

EPA Work Assignment # 3-598
Project # 3347-31-01-4598
EPA Contract # 68-03-3482

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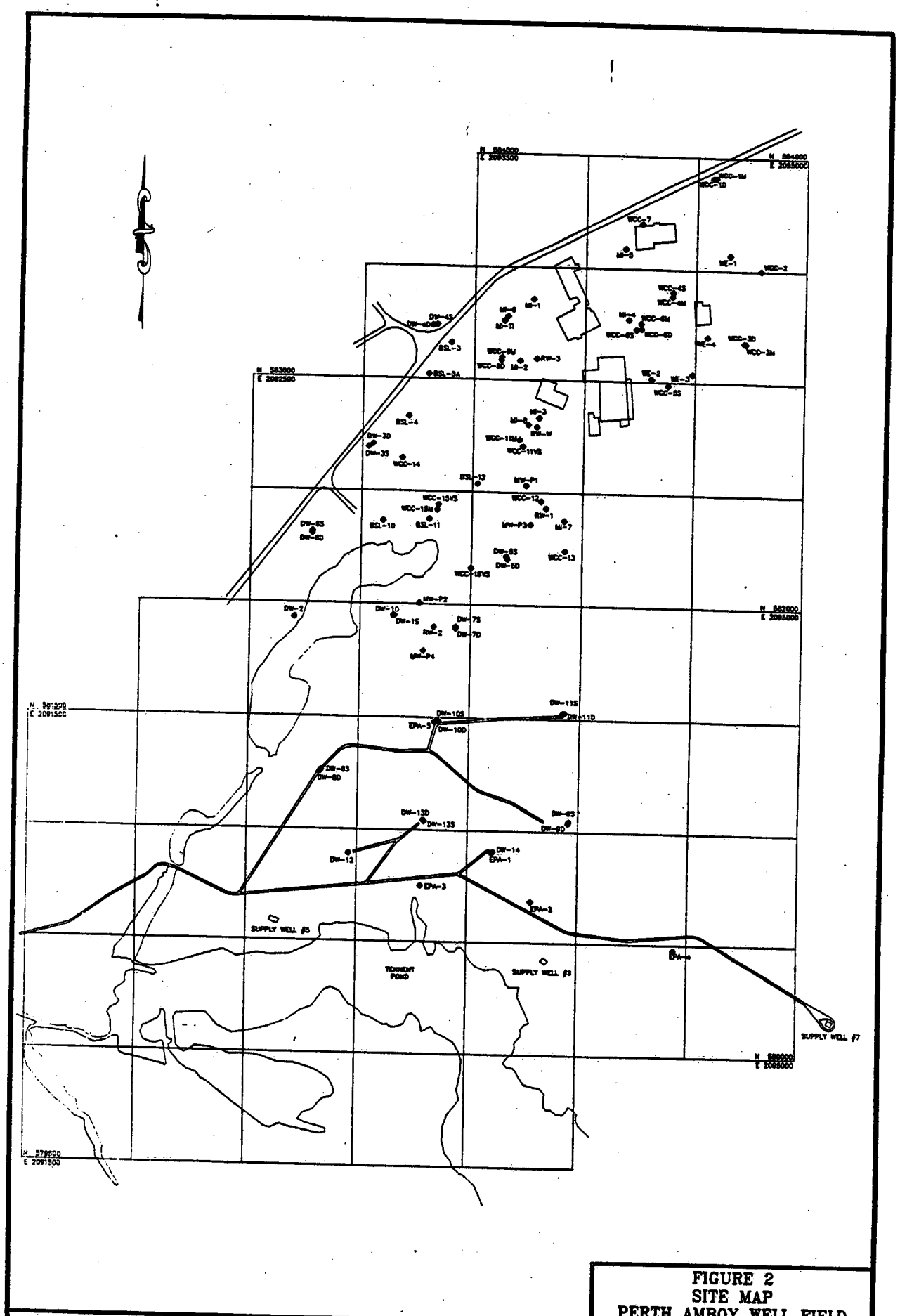

LEGEND

DW-8S GROUNDWATER MONITORING WELL

GRAPHIC SCALE

400 0 200 400 800

(IN FEET)

1 inch = 400 ft.

FIGURE 2
SITE MAP
PERTH AMBOY WELL FIELD
OLD BRIDGE, NEW JERSEY
APRIL 7-8, 1992

US EPA ENVIRONMENTAL RESPONSE TEAM
RESPONSE ENGINEERING AND ANALYTICAL CONTRACT
68-03-3482
W.O.# 3347-31-01-4588

INTRODUCTION

REAC Laboratory, in response to ERT work assignment 3347-31-01-4598, provided analytical services for samples received from Perth Amboy Wellfield in Perth Amboy, NJ on February 12, 1992. These services involved the analysis of water and soil samples for VOA compounds, beryllium, cadmium, chromium, copper, lead, nickel, zinc, QA/QC data review and a final report summarizing the analytical procedures, results and QA/QC.

Upon receiving the samples in the laboratory the sample custodian followed standard procedures for inspection of the chain-of-custody and record keeping for sample tracking.

Number of Samples	Matrix	Analysis Requested	Laboratory
54	Water	VOA	REAC
78	Soil	VOA	REAC
30	Water	Metals	REAC

CASE NARRATIVE

VOA Analysis

The presence of 1,1,1-trichloroethane in samples 14513, 14490, and 14493 is due to contamination because its concentration in these samples is less than five times that found in the blank.

The acetone results that are reported for samples 14581, 14582, and 14593 should be considered as estimated because the continuing calibration for this analyte did not meet the QC requirement. All positive identifications for samples 15114, 14556, and 14561 should be considered as estimates because the surrogate recoveries exceeded acceptable QC limits.

The chlorobenzene results for samples 15074 and 15111 were reported from the dilution and should be considered as estimated because the surrogate recovery exceeded acceptable QC limits. All positive identifications, except chlorobenzene, for sample 14594 should be considered as estimates because the surrogate recovery exceeded acceptable QC limits.

The (soil) sample 14582 is reported on a wet weight basis and the results should be considered as estimates.

Samples 15067 and 15113 were not run because they were mistakenly given sample numbers when they were extra bottles for MS/MSD analysis.

The differences in the results of the replicate samples may be due to inhomogeneity of the samples. The corresponding method blanks have been examined and carry-over between samples has been evaluated.

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Perth Amboy Well Field
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April 27, 1992

EPA Work Assignment No. 3-598
Project No. 3347-31-01-4598
EPA Contract No. 68-03-3482

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Table of Contents

Introduction		Page 1
Case Narrative		Page 2
Section I		
Procedure for VOA in Water		Page 3
Procedure for VOA in Soil		Page 5
Procedure for Metals in Water		Page 7
Procedure for Beryllium in Water		Page 7
Results of the VOA in Water Analysis	Table 1.1	Page 8
Results of the VOA in Water TICs	Table 1.2	Page 50
Results of the VOA in Soil Analysis	Table 1.3	Page 52
Results of the VOA in Soil TICs	Table 1.4	Page 104
Results of the Metals in Water Analysis	Table 1.5	Page 107
Section II		
QA/QC for VOA		Page 110
Water Volatile Surrogate Recoveries	Table 2.1	Page 111
Soil Volatile Surrogate Recoveries	Table 2.2	Page 115
Volatile Internal Standard Area Recoveries	Table 2.3	Page 119
Results of the MS/MSD Analysis for the Water Samples	Table 2.4	Page 144
Results of the MS/MSD Analysis for the Soil Samples	Table 2.5	Page 147
QA/QC for Metals		Page 151
Result of the EMSL Analysis	Table 2.6	Page 152
Result of the MS/MSD Analysis	Table 2.7	Page 153
Result of the Blank Spike Analysis	Table 2.8	Page 154
Section III		
Chain of Custody		Page 155
Section IV		
Data Validity		Page 170
Appendices		
Appendix A Data for VOA		Page E570001
Appendix B Data for Metals		Page E330001
		Page E450001

Appendices will be furnished on request.

Section I

ANALYTICAL PROCEDURES FOR VOA (WATER)

A modified 524.2 method for the analysis of Volatile Organic Compounds in water and soil was used. Samples were purged, trapped, and desorbed to a GC/MS system. The following conditions and parameters were utilized:

1) Purge and Trap Unit: A Tekmar concentrator (LSC 2000) equipped with an autosampler (ALS2016) was utilized.

Purge and Trap parameters:

Purge	10 min at 25° C	Dry Purge	8 min at 25°C
Desorb	4 min at 225° C	Bake	8 min at 260°C
Purge Flow Rate			40 ml/min

Trap - A two part trap containing Supelco Carbopack B (200 mg) and Carbosieve S-III (50 mg) was used.

2) GC/MS System: A Hewlett Packard 5970MSD GC/MS equipped with RTE/A data system was used.

GC/MS parameters:

GC Column - 30 meter x 0.53mm ID, RTx-Volatiles (Restek Corp.) column with 3.0 um thickness.

GC Temperature 5 min at 10° C; 6°/min to 140° C
1 min at 140° C. 12°/min to 180°
4 min at 180° C

GC Flow Rate - Helium at 10 ml/min

GC/MS Interface - Glass lined jet separator with 25 ml/min helium make-up gas at 250° C.

Mass Spectrometer - Electron Impact Ionization at a nominal electron energy of 70 eV, scanning from 35-300 amu at one scan/sec.

Computer - Preprogrammed to plot Extracted Ion Current Profile (EICP); capable of integrating ions and plotting abundances vs time or scan number. A library search (NBS-Wiley) for tentatively identified compounds was performed on samples. To examine the mass spectral data, 50ng of p-bromofluorobenzene was injected to ensure the correct ionization pattern of the mass spectra.

The GC/MS system was calibrated using 6 VOA standards at 5, 10, 20, 50, 100, and 200 ug/l. The calibration range was validated by evaluating the System Performance Check Compounds (SPCC) and Calibration Check Compounds (CCC) as outlined in the CLP protocol. Before analysis each day, the system was tuned with a 50 ng injection of BFB and passed a continuing calibration check when analysing a 50 ug/l standard mixture in which the responses of the SPCC and CCC compounds were evaluated by comparison to the average response of the calibration curve.

The concentrations of the analytes were calculated using the following equation:

$$C_u = \frac{A_x \times I_b}{A_b \times RF \times V_o}$$

where

C_u = concentration of the analyte (ug/L)
A_x = Area of the analyte
I_b = ng of internal standard
A_b = Area of the internal standard
RF = Response Factor
V_o = volume of sample purged, taking into account dilutions (ml)

The results are listed in Table 1.1 and the Tentatively Identified Compounds are listed in Table 1.2.

Response Factor calculation:

The response factor (RF) for each specific analyte is quantitated based on the area response from the continuing calibration check as follows:

$$RF = \frac{A_c \times I_b'}{A_b' \times I_c}$$

where,

RF = Response factor for a specific analyte
A_c = Area of the analyte in the continuing calibration check
A_b' = Area of the internal standard in the continuing calibration check
I_c = Mass of the analyte in the continuing calibration check
I_b' = Mass of the internal standard in the continuing calibration check

ANALYTICAL PROCEDURES for VOA (SOIL)

A modified 524.2 method for the analysis of Volatile Organic Compounds in water and soil was used. Samples were purged, trapped, and desorbed to a GC/MS system. The following conditions and parameters were utilized:

1) Purge and Trap Unit: A Tekmar concentrator (LSC 2000) equipped with an autosampler (ALS2016) was utilized.

Purge and Trap parameters:

Purge - 10 min at 25° C Dry Purge - 8 min at 25° C
Desorb 4 min at 225° C Bake - 8 min at 260° C
Purge Flow Rate - 40 ml/min

Trap - A two part trap containing Supelco Carbopack B (200 mg) and Carbosieve S-III (50 mg) was used.

2) GC/MS System: A Hewlett Packard 5970 MSD GC/MS equipped with RTE/A data system was used.

GC/MS parameters:

GC Column - 30 meter x 0.53mm ID, RTx - Volatiles (Restek Corp.) column with 3um thickness.

GC Temperature 5 min at 10° C; 6°/min to 140° C
1 min at 140° C; 12°/min to 180°
4 min at 180° C

GC Flow Rate - Helium at 10 ml/min

GC/MS Interface - Glass lined jet separator with 25 ml make-up gas at 250° C.

Mass Spectrometer - Electron Impact Ionization at a nominal electron energy of 70 eV, scanning from 35-300 amu at one scan/sec.

Computer - Preprogrammed to plot Extracted Ion Current Profile (EICP); capable of integrating ions and plotting abundances vs time or scan number. A library search (NBS-Wiley) for tentatively identified compounds was performed on samples. To examine the mass spectral data, 50ng of p-bromofluorobenzene was injected to ensure the correct ionization pattern of the mass spectra.

The GC/MS system was calibrated using 6 VOA standards at 5, 10, 20, 50, 100, and 200 ug/l. The calibration range was validated by evaluating the System Performance Check Compounds (SPCC) and Calibration Check Compounds (CCC), as outlined in the CLP protocol. Before analysis each day, the system was tuned with a 50 ng injection of BFB and passed a continuing calibration check when analysing a 50 ug/l standard mixture in which the responses of the SPCC and CCC compounds were evaluated by comparison to the average response of the calibration curve.

The results are in Table 1.3; tentatively identified compounds are listed in Table 1.4.

The concentrations of the analytes were calculated using the following equation:

$$C_u = \frac{DF \times A_x \times I_b}{A_b \times RF \times W_o}$$

where

C_u = Concentration of Analyte (ug/kg)
DF = Dilution Factor
A_x = Area of the analyte in the gas chromatogram
I_b = mass of internal standard (ng)
A_b = Area of the internal standard in the gas chromatogram
RF = Response Factor defined below
W_o = Weight of sample (g)

Response Factor calculation:

The response factor (RF) for each specific analyte is quantitated based on the area response from the continuing calibration check as follows:

$$RF = \frac{A_c \times I_b'}{A_b' \times I_c}$$

where,

RF = Response factor for a specific analyte
A_c = Area of the analyte in the continuing calibration check
A_b' = Area of the internal standard in the continuing calibration check
I_c = Mass of the analyte in the continuing calibration check
I_b' = Mass of the internal standard in the continuing calibration check

ANALYTICAL PROCEDURE FOR METALS IN WATER

A 45 ml aliquot of sample was mixed with 3 ml concentrated nitric acid, placed in an acid rinsed Teflon container, capped with a Teflon lined cap, and digested in a CEM MDS-81D microwave oven. After digestion, the sample was diluted to 50 ml with ASTM Type II water and analysed for cadmium, chromium, copper, lead, nickel, and zinc by USEPA SW-846 procedures. The metals analyses were done on either a Varian SpectrAA-20, -300, or -400Z Atomic Absorption Spectrophotometer.

ANALYTICAL PROCEDURE FOR BERYLLIUM IN WATER

A 100 ml aliquot of sample was mixed with 2 ml concentrated nitric acid, placed in an acid rinsed 150 ml Teflon container, capped with a Teflon lined cap, and digested in a CEM MDS-81D microwave oven at 45% power until the volume was reduced to 10 ml. After digestion, the sample was diluted to 25 ml with ASTM Type II water and analysed for beryllium by USEPA SW-846 procedures.

Results of the metals and beryllium analyses are listed in Table 1.5.

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14455		14465		14464	
LOCATION	2/20/92 #1		Potable Water Supp		Rinsate		Drilling Mud	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	29	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	3.3	1.0	ND	1.0	1.6	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	1.9	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	0.8 J	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	2.0	1.0
Chlorobenzene	ND	1.0	2.1	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	1.7	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	0.8 J	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit
J denotes that the value is estimated

TABLE 1.4 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14455		14465		14464	
LOCATION	2/20/92 #1		Potable Water Supp		Rinsate		Drilling Mud	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	1.3	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	1.3	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14479		14480	
LOCATION	2/20/92 #2		Rinsate		Trip Blank	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14479		14480	
LOCATION	2/20/92 #2		Rinsate		Trip Blank	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14483			
LOCATION	2/22/92		Drilling Mud	
MATRIX	WATER		MUD	
% Solid	100		100	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0
Acetone	ND	1.0	30	1.0
Carbon Disulfide	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0
Benzene	ND	1.0	1.7	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0
Toluene	ND	1.0	4.5	1.0
Chlorobenzene	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	1.0 J	1.0
p&m-Xylene	ND	1.0	3.1	1.0
o-Xylene	ND	1.0	3.8	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit
J denotes that the value is estimated

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14483			
LOCATION	2/22/92		Drilling Mud	
MATRIX	WATER		MUD	
% Solid	100		100	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	2.2	1.0
1,2-Dichlorobenzene	ND	1.0	2.6	1.0
n-Butylbenzene	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14486		14487	
LOCATION	2/25/92		Trip Blank		Drilling Mud	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	25	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	1.4	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	1.5	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	2.0	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	2.2	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	4.8	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	0.9 J	1.0
p&m-Xylene	ND	1.0	ND	1.0	3.9	1.0
o-Xylene	ND	1.0	ND	1.0	3.5	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit
J denotes that the value is estimated

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14486		14487	
LOCATION	2/25/92		Trip Blank		Drilling Mud	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	2.1	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	3.3	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	5.1	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	3.5	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	2.6	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14500		14489		13706		14501	
LOCATION	2/26/92		Trip Blank		Drill Rig Tank		Raritan Depot Fire Hydrant		Rinsate EPA 3D-31-32	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	3.4	1.0	22	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	1.5	1.0	7.7	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14500		14489		13706		14501	
LOCATION	2/26/92		Trip Blank		Drill Rig Tank		Raritan Depot Fire Hydrant		Rinsate EPA 3D-31-32	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14518			
LOCATION	2/27/92		Trip Blank	
MATRIX	WATER		WATER	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14518			
LOCATION	2/27/92		Trip Blank	
MATRIX	WATER		WATER	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14513			
LOCATION	2/27/92 #2		Pick Up Tank	
MATRIX	WATER		WATER	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0
Chloroform	ND	1.0	3.9	1.0
1,1,1-Trichloroethane	1.2	1.0	1.4 B	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	1.2	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0
1,3-Dichloropropene	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	1.6	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit
B denotes that the analyte was detected in the blank

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14513			
LOCATION	2/27/92 #2		Pick Up Tank	
MATRIX	WATER		WATER	
% Solid				
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14519		14523	
LOCATION	2/28/92		Trip Blank		Rinsate	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14519		14523			
LOCATION	2/28/92		Trip Blank Rinsate			
MATRIX	WATER		WATER		WATER	
% Solid						
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14542		14558	
LOCATION	3/4/92		Trip Blank		Drill Rig	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	3.6	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	1.0	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14542		14558	
LOCATION	3/4/92		Trip Blank		Drill Rig	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14557		14546		14562		14576	
LOCATION	3/5/92		Trip Blank		Rinsate		Rinsate		Trip Blank	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14557		14546		14562		14576	
LOCATION	3/5/92		Trip Blank		Rinsate		Rinsate		Trip Blank	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14578			
LOCATION	3/5/92		Teaspoon Rinsate	
MATRIX	WATER		WATER	
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14578			
LOCATION	3/5/92		Teaspoon Rinsate	
MATRIX	WATER		WATER	
% Solid				
UNITS	ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14585		14587	
LOCATION	3/6/92		Trip Blank		Rinsate	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14585		14587	
LOCATION	3/6/92		Trip Blank		Rinsate	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15103		15105		15110		15114	
LOCATION	3/12/92		Trip Blank		Finish Water		EPA-3		EPA 10	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	12	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.5	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	2.6	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	1.4	1.0	42	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	3.8	1.0	348	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15103		15105		15110		15114	
LOCATION	3/12/92		Trip Blank		Finish Water		EPA-3		EPA 10	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	6.3	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	8.8	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	27	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	21	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15107		15100		15070	
LOCATION	3/13/92		Trip Blank		Supply Well #5		DW-11S	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15107		15100		15070	
LOCATION	3/13/92		Trip Blank		Supply Well #5		DW-11S	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15108		15106		15071		14595	
LOCATION	3/13/92 #2		DI Water		Bailer Rinsate		Bailer Rinsate DW-13S		DW-8S	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.4 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15108		15106		15071		14595	
LOCATION	3/13/92 #2		DI Water		Bailer Rinsate		Bailer Rinsate DW-13S		DW-8S	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14596		15072		15073		15117	
LOCATION	3/13/92 #2		DW-8D		DW-13S		DW-13D		DW-10D	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.9	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.3	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.6	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	3.4	1.0	57	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.9	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	11	1.0	290	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	9.7	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	0.8	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.6	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.† RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14596		15072		15073		15117	
LOCATION	3/13/92 #2		DW-8D		DW-13S		DW-13D		DW-10D	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	6.2	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	39	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	1.2	1.0	78	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	44	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	3.7	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15074		15111	
LOCATION	3/13/92		EPA-5		EPA-1	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	1.6	1.0	1.6	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	1.1	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	3.1	1.0	2.4	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	28	1.0	43	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	2.3	1.0	3.1	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	0.5	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	241	1.0	346	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	2.9	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15074		15111	
LOCATION	3/13/92		EPA-5		EPA-1	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	2.5	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	3.6	1.0	12	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	16	1.0	14	1.0
1,4-Dichlorobenzene	ND	1.0	39	1.0	41	1.0
1,2-Dichlorobenzene	ND	1.0	9.8	1.0	32	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	2.1	1.0	3.1	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15104		15068		15115		15101	
LOCATION	3/14/92		Supply Well #8		DW-12		DW-9S		Supply Well #6	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.3	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	9.2	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15104		15068		15115		15101	
LOCATION	3/14/92		Supply Well #8		DW-12		DW-9S		Supply Well #6	
MATRIX	WATER		WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.2	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1-4 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15066		15112		15065	
LOCATION	3/14/92		EPA-20		DW-14		EPA-2	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	1.1	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	1.8	1.0	ND	1.0	2.2	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	0.8	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	12	1.0	6.8	1.0	12	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	17	1.0	12	1.0	16	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	0.7	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	1.0	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.4 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15066		15112		15065	
LOCATION	3/14/92		EPA-20		DW-14		EPA-2	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	1.0	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	1.2	1.0	ND	1.0	1.3	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15102		15116		15069	
LOCATION	3/16/92		Supply Well #7		DW-9D		DW-11D	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Acetone	4.5	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15102		15116		15069	
LOCATION	3/16/92		Supply Well #7		DW-9D		DW-11D	
MATRIX	WATER		WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		15064		15118	
LOCATION	3/17/92		EPA-4		DW-10S	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.0	ND	1.0
Chloromethane	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0
Bromomethane	ND	1.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Methylene Chloride	ND	1.0	ND	1.0	ND	1.0
Acetone	ND	1.0	ND	1.0	ND	1.0
Carbon Disulfide	ND	1.0	ND	1.0	ND	1.0
2-Butanone	ND	1.0	ND	1.0	ND	1.0
Vinyl Acetate	ND	1.0	ND	1.0	ND	1.0
trans-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
2,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0
Chloroform	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Dibromomethane	ND	1.0	ND	1.0	ND	1.0
Bromodichloromethane	ND	1.0	ND	1.0	ND	1.0
trans-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
cis-1,3-Dichloropropene	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichloropropane	ND	1.0	ND	1.0	ND	1.0
Bromoform	ND	1.0	ND	1.0	ND	1.0
4-Methyl-2-Pentanone	ND	1.0	ND	1.0	ND	1.0
2-Hexanone	ND	1.0	ND	1.0	ND	1.0
Dibromochloromethane	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	ND	1.0	ND	1.0	ND	1.0
Toluene	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0
p&m-Xylene	ND	1.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.1 RESULTS OF THE VOA ANALYSIS FOR THE WATER SAMPLES
WA # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		15064		15118	
LOCATION	3/17/92		EPA-4		DW-10S	
MATRIX	WATER		WATER		WATER	
UNITS	ug/L		ug/L		ug/L	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.0	ND	1.0
Isopropylbenzene	ND	1.0	ND	1.0	ND	1.0
Bromobenzene	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichloropropane	ND	1.0	ND	1.0	ND	1.0
n-Propylbenzene	ND	1.0	ND	1.0	ND	1.0
2-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
4-Chlorotoluene	ND	1.0	ND	1.0	ND	1.0
tert-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0	ND	1.0	ND	1.0
sec-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
p-Isopropyltoluene	ND	1.0	ND	1.0	ND	1.0
1,3-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	ND	1.0	ND	1.0	ND	1.0
n-Butylbenzene	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0
Hexachlorobutadiene	ND	1.0	ND	1.0	ND	1.0
Naphthalene	ND	1.0	ND	1.0	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0	ND	1.0	ND	1.0

ND denotes Not Detected
MDL denotes Method Detection Limit

Table 1.2 VOA Tentatively Identified Compounds for the Water Samples from Perth Amboy Wellfield

Sample ID	Location	Compound
Method Blank 2/20/92 #1		None Found
14455	Potable Water Supp	None Found
14465	Rinsate	None Found
14464	Drilling Mud	None Found
Method Blank 2/20/92 #2		None Found
14479	Rinsate Blank	None Found
14480	Trip Blank	None Found
Method Blank 2/22/92		None Found
14483	Drilling Mud	None Found
Method Blank 2/25/92		None Found
14486	Trip Blank	None Found
14487	Drilling Mud	None Found
Method Blank 2/26/92		None Found
14500	Trip Blank	None Found
14489	Drill Rig Tank	None Found
13706	Raritan Depot Fire Hydrant	None Found
14501	Rinsate EPA 3D-31-32	None Found
Method Blank 2/27/92 #1		None Found
14518	Trip Blank	None Found
Method Blank 2/27/92 #2		None Found
14513	Pick Up Tank	None Found
Method Blank 2/28/92		None Found
14519	Trip Blank	None Found
14523	Rinsate	None Found
Method Blank 3/4/92		None Found
14542	Trip Blank	None Found
14558	Drill Rig Tank	None Found
Method Blank 3/5/92		None Found
14557	Trip Blank	None Found
14546	Rinsate	None Found
14562	Rinsate	None Found
14576	Trip Blank	None Found
14578	Teaspoon Rinsate	None Found

Table 1.2 VOA Tentatively Identified Compounds for the Water Samples from Perth Amboy Wellfield

Sample ID	Location	Compound	Concentration* (ug/l)	Retention Time (min)
Method Blank 3/6/92		None Found		
14585	Trip Blank	None Found		
14587	Rinsate	None Found		
Method Blank 3/12/92		None Found		
15103	Trip Blank	None Found		
15105	Finish Water	None Found		
15110	EPA-3	None Found		
15114	EPA 10	None Found		
Method Blank 3/13/92 #1		None Found		
15107	Trip Blank	None Found		
15100	Supply Well #5	None Found		
15070	DW-11S	None Found		
Method Blank 3/13/92 #2		None Found		
15108	DI Water	None Found		
15106	Bailer Rinsate	None Found		
15071	Bailer Rinsate DW-13S	None Found		
14595	DW-8S	None Found		
14596	DW-8D	None Found		
15072	DW-13S	None Found		
15073	DW-13D	None Found		
15117	DW-10D	Unknown	11	10.98
15074	EPA-5	Possible Alkane	6	10.98
15111	EPA-1	Possible Alkane	6	10.99
Method Blank 3/14/92		None Found		
15104	Supply Well #8	None Found		
15068	DW-12	None Found		
15115	DW-9S	None Found		
15101	Supply Well #6	None Found		
15066	EPA-20	None Found		
15112	DW-14	None Found		
15065	EPA-2	None Found		
Method Blank 3/16/92		None Found		
15102	Supply Well #7	None Found		
15116	DW-9D	None Found		
15069	DW-11D	None Found		
Method Blank 3/17/92		None Found		
15064	EPA-4	None Found		
15118	DW-10S	None Found		

* denotes that the concentrations are estimated - the response factor is assumed to be 1.

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14456			
LOCATION	2/20/92		EPA 4D 5-7'	
MATRIX	SOIL		SOIL	
% Solid	100		85	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2
Acetone	ND	1.0	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2
Benzene	ND	1.0	25	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2
Toluene	ND	1.0	2.4	1.2
Chlorobenzene	ND	1.0	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2
o-Xylene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14456			
LOCATION	2/20/92		EPA 4D 3-7'	
MATRIX	SOIL		SOIL	
% Solid	100		85	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	3.5	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	2.3	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	2.3	1.2
tert-Butylbenzene	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	234	1.2
1,4-Dichlorobenzene	ND	1.0	1800	1.2
1,2-Dichlorobenzene	ND	1.0	1500	1.2
n-Butylbenzene	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	17	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2
Naphthalene	ND	1.0	3.8	1.2
1,2,3-Trichlorobenzene	ND	1.0	3.5	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14462		14470		14458		14471	
LOCATION	2/21/92	EPA 4D		EPA 4D		EPA 4D		EPA 4D	
		28-29.5		38-39.3		15-17		42-43.4	
MATRIX		SOIL		SOIL		SOIL		SOIL	
% Solid	100	84		81		87		82	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Acetone	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14462		14470		14458		14471	
LOCATION	2/21/92		EPA 4D		EPA 4D		EPA 4D		EPA 4D	
			28-29.5		38-39.3		15-17		42-43.4	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		84		81		87		82	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.1	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14473		14481		14468	
LOCATION	2/21/92		EPA 4D		EPA 4D		EPA 4D	
			46-47.5'		70-71.5'		34-35.3	
MATRIX			SOIL		SOIL		SOIL	
% Solid	100		85		95		83	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	ND	1.0	9.2	1.2
Acetone	ND	1.0	ND	1.2	ND	1.0	9.2	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK	14473		14481		14468	
LOCATION	2/21/92	EPA 4D		EPA 4D		EPA 4D	
		46-47.5'		70-71.5'		34-35.3	
MATRIX		SOIL		SOIL		SOIL	
% Solid	100	85		95		83	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.0	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14461		14463		14477		14482	
LOCATION	2/22/92		EPA 4D 26.5-28		EPA 4D 28-29.5 DUP		EPA 4D 60-60.9'		EPA 4D 75-77'	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		84		84		83		86	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Acetone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	9.0	1.2	3.1	1.2	9.8	1.2	11	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14461		14463		14477		14482	
LOCATION	2/22/92		EPA 4D		EPA 4D		EPA 4D		EPA 4D	
			26.5-28		28-29.5		60-60.9'		75-77'	
					DUP					
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		84		84		83		86	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	3.6	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	3.3	1.2	ND	1.2	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14475		14484		
LOCATION	2/22/92	EPA 4D 50-52'		EPA 4D 80-82'		
MATRIX		SOIL		SOIL		
% Solid	100	86		85		
UNITS	ug/Kg	ug/Kg		ug/Kg		
COMPOUND NAME	Conc.	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	ND	1.2
Acetone	ND	1.0	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK	14475		14484		
LOCATION	2/22/92	EPA 4D		EPA 4D		
		50-52'		80-82'		
MATRIX		SOIL		SOIL		
% Solid	100	86		85		
UNITS	ug/Kg	ug/Kg		ug/Kg		
COMPOUND NAME	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14495		14498		14503		14505	
LOCATION	2/26/92	EPA 3D		EPA 3D		EPA 3D		EPA 3D	
		29-30.5		35-36		41-42		45-45.8	
MATRIX		SOIL		SOIL		SOIL		SOIL	
% Solid	100	81		85		83		86	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	51	1.2	17	1.2	10	1.2	28	1.2
Acetone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	13	1.2	ND	1.2	ND	1.2	6.2	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK	14495		14498		14503		14505	
LOCATION	2/26/92	EPA 3D		EPA 3D		EPA 3D		EPA 3D	
		29-30.5		35-36		41-42		45-45.8	
MATRIX		SOIL		SOIL		SOIL		SOIL	
% Solid	100	81		85		83		86	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc. MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND 1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14506		14507		14511		14488	
LOCATION	2/26/92		EPA 3D		EPA 3D		EPA 3D		EPA 3D	
			50-51.5		55-56		75-76.5		5-7	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		87		86		89		90	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Chloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Vinyl Chloride	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Bromomethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Chloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Trichlorofluoromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Methylene Chloride	ND	1.0	24	1.1	18	1.2	16	1.1	ND	1.1
Acetone	ND	1.0	ND	1.1	ND	1.2	5.1	1.1	ND	1.1
Carbon Disulfide	ND	1.0	ND	1.1	4.4	1.2	ND	1.1	ND	1.1
2-Butanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Vinyl Acetate	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
trans-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1-Dichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
2,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
cis-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Chloroform	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1,1-Trichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Carbon Tetrachloride	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Benzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2-Dichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Trichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Dibromomethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Bromodichloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
trans-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
cis-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1,2-Trichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Tetrachloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,3-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Bromoform	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
4-Methyl-2-Pentanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
2-Hexanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Dibromochloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2-Dibromoethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Toluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Chlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Ethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
p&m-Xylene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
o-Xylene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14506		14507		14511		14488	
LOCATION	2/26/92		EPA 3D		EPA 3D		EPA 3D		EPA 3D	
			50-51.5		55-56		75-76.5		5-7	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		87		86		89		90	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Isopropylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Bromobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2,3-Trichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
n-Propylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
2-Chlorotoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,3,5-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
4-Chlorotoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
tert-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2,4-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
sec-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
p-Isopropyltoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,3-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,4-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
n-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2,4-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Hexachlorobutadiene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
Naphthalene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1
1,2,3-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.1

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14491			
LOCATION	2/26/92		EPA 3D 15-17	
MATRIX			SOIL	
% Solid	100		83	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2
Acetone	ND	1.0	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2
Benzene	ND	1.0	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2
Toluene	ND	1.0	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2
o-Xylene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14491			
LOCATION	2/26/92		EPA 3D 15-17	
MATRIX			SOIL	
% Solid	100		83	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2
Naphthalene	ND	1.0	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14485			
LOCATION	2/27/92		Bentonite	
MATRIX			SOIL	
% Solid	100		94	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	4.3
Chloromethane	ND	1.0	ND	4.3
Vinyl Chloride	ND	1.0	ND	4.3
Bromomethane	ND	1.0	ND	4.3
Chloroethane	ND	1.0	ND	4.3
Trichlorofluoromethane	ND	1.0	ND	4.3
1,1-Dichloroethene	ND	1.0	ND	4.3
Methylene Chloride	ND	1.0	ND	4.3
Acetone	ND	1.0	221	4.3
Carbon Disulfide	ND	1.0	ND	4.3
2-Butanone	ND	1.0	ND	4.3
Vinyl Acetate	ND	1.0	ND	4.3
trans-1,2-Dichloroethene	ND	1.0	ND	4.3
1,1-Dichloroethane	ND	1.0	ND	4.3
2,2-Dichloropropane	ND	1.0	ND	4.3
cis-1,2-Dichloroethene	ND	1.0	ND	4.3
Chloroform	ND	1.0	ND	4.3
1,1,1-Trichloroethane	ND	1.0	ND	4.3
Carbon Tetrachloride	ND	1.0	ND	4.3
1,1-Dichloropropene	ND	1.0	ND	4.3
Benzene	ND	1.0	ND	4.3
1,2-Dichloroethane	ND	1.0	ND	4.3
Trichloroethene	ND	1.0	ND	4.3
1,2-Dichloropropane	ND	1.0	ND	4.3
Dibromomethane	ND	1.0	ND	4.3
Bromodichloromethane	ND	1.0	ND	4.3
trans-1,3-Dichloropropene	ND	1.0	ND	4.3
cis-1,3-Dichloropropene	ND	1.0	ND	4.3
1,1,2-Trichloroethane	ND	1.0	ND	4.3
Tetrachloroethene	ND	1.0	ND	4.3
1,3-Dichloropropane	ND	1.0	ND	4.3
Bromoform	ND	1.0	ND	4.3
4-Methyl-2-Pentanone	ND	1.0	9.8	4.3
2-Hexanone	ND	1.0	ND	4.3
Dibromochloromethane	ND	1.0	ND	4.3
1,2-Dibromoethane	ND	1.0	ND	4.3
Toluene	ND	1.0	ND	4.3
Chlorobenzene	ND	1.0	ND	4.3
1,1,1,2-Tetrachloroethane	ND	1.0	ND	4.3
Ethylbenzene	ND	1.0	ND	4.3
p&m-Xylene	ND	1.0	11	4.3
o-Xylene	ND	1.0	8.0	4.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14485			
LOCATION	2/27/92		Bentonite	
MATRIX			SOIL	
% Solid	100		94	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	4.3
Isopropylbenzene	ND	1.0	ND	4.3
Bromobenzene	ND	1.0	ND	4.3
1,1,2,2-Tetrachloroethane	ND	1.0	ND	4.3
1,2,3-Trichloropropane	ND	1.0	ND	4.3
n-Propylbenzene	ND	1.0	ND	4.3
2-Chlorotoluene	ND	1.0	ND	4.3
1,3,5-Trimethylbenzene	ND	1.0	9.6	4.3
4-Chlorotoluene	ND	1.0	ND	4.3
tert-Butylbenzene	ND	1.0	ND	4.3
1,2,4-Trimethylbenzene	ND	1.0	13	4.3
sec-Butylbenzene	ND	1.0	ND	4.3
p-Isopropyltoluene	ND	1.0	ND	4.3
1,3-Dichlorobenzene	ND	1.0	ND	4.3
1,4-Dichlorobenzene	ND	1.0	5.9	4.3
1,2-Dichlorobenzene	ND	1.0	4.7	4.3
n-Butylbenzene	ND	1.0	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	4.3
1,2,4-Trichlorobenzene	ND	1.0	ND	4.3
Hexachlorobutadiene	ND	1.0	ND	4.3
Naphthalene	ND	1.0	ND	4.3
1,2,3-Trichlorobenzene	ND	1.0	ND	4.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14514		14515		14516		14517	
LOCATION	2/27/92		EPA 3D 100-102		EPA 2D 5-7		EPA 2D 11-12		EPA 2D 16-17	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		91		86		88		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Chloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Bromomethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Chloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Methylene Chloride	ND	1.0	ND	1.1	17	1.2	15	1.1	18	1.2
Acetone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.1	ND	1.2	ND	1.1	39	1.2
2-Butanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Chloroform	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1,1-Trichloroethane	1.2	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Benzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Trichloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Dibromomethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Bromoform	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
2-Hexanone	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Toluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Chlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Ethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
p&m-Xylene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
o-Xylene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14514		14515		14516		14517	
LOCATION	2/27/92		EPA 3D 100-102		EPA 2D 5-7		EPA 2D 11-12		EPA 2D 16-17	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		91		86		88		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Bromobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
Naphthalene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.2	ND	1.1	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.5 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14509		14512		14492		14490	
LOCATION	2/27/92		EPA 3D		EPA 3D		EPA 3D		EPA 3D	
			65-66.5		75-76.5		DUP20-21.5		10-12	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		88		91		85		84	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Acetone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,1-Trichloroethane	1.24	1.0	ND	1.1	ND	1.1	ND	1.2	2.4 B	1.2
Carbon Tetrachloride	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit
B denotes that the analyte was detected in the blank

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14509		14512		14492		14490	
LOCATION	2/27/92		EPA 3D		EPA 3D		EPA 3D		EPA 3D	
			65-66.5		75-76.5		20-21.5		10-12	
					DUP					
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		88		91		85		87	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14493			
LOCATION	2/27/92		EPA 3D 25-26.5	
MATRIX			SOIL	
% Solid	100		85	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2
Acetone	ND	1.0	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2
1,1,1-Trichloroethane	1.2	1.0	1.6 B	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2
Benzene	ND	1.0	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2
Toluene	ND	1.0	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2
o-Xylene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit
B denotes that the analyte was detected in the blank

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14493			
LOCATION	2/27/92		EPA 3D	
			25-26.5	
MATRIX			SOIL	
% Solid	100		85	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2
Naphthalene	ND	1.0	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14521		14527		14530		14533	
LOCATION	2/28/92	EPA 2D 25-27		EPA 2D 33-34.5		EPA 2D 39-41		EPA 2D 45-46	
MATRIX		SOIL		SOIL		SOIL		SOIL	
% Solid	100	85		81		80		82	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	10	1.2	12	1.2	11	1.2	12	1.2
Acetone	ND	1.0	6.5	1.2	ND	1.2	13	1.2	5.7	1.2
Carbon Disulfide	ND	1.0	3.9	1.2	ND	1.2	5.9	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2	3.8	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2	6.2	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14521		14527		14530		14533	
LOCATION	2/28/92		EPA 2D 25-27		EPA 2D 33-34.5		EPA 2D 39-41		EPA 2D 45-46	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		85		81		80		82	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14535		14537		14538		14539	
LOCATION	2/28/92		EPA 2D 55-56		EPA 2D 65-67		EPA 2D 70-71		EPA 2D 75-76	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		83		88		83		88	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Chloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Bromomethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Chloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Methylene Chloride	ND	1.0	10	1.2	ND	1.1	13	1.2	ND	1.1
Acetone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Carbon Disulfide	ND	1.0	5.3	1.2	ND	1.1	5.9	1.2	ND	1.1
2-Butanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Chloroform	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.1	1.7	1.2	ND	1.1
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Benzene	ND	1.0	ND	1.2	5.6	1.1	ND	1.2	ND	1.1
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Trichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Dibromomethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Bromoform	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
2-Hexanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Toluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Chlorobenzene	ND	1.0	ND	1.2	5.6	1.1	5.2	1.2	ND	1.1
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Ethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
p&m-Xylene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
o-Xylene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14535		14537		14538		14539	
LOCATION	2/28/92		EPA 2D		EPA 2D		EPA 2D		EPA 2D	
			55-56		65-67		70-71		75-76	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid	100		83		88		83		88	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Bromobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
Naphthalene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.1

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14541			
LOCATION	2/28/92		EPA 2D 80-81.5	
MATRIX			SOIL	
% Solid			86	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2
Acetone	ND	1.0	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2
Benzene	ND	1.0	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2
Toluene	ND	1.0	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2
o-Xylene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14541			
LOCATION	2/28/92		EPA 2D	
			80-81.5	
MATRIX			SOIL	
% Solid			86	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2
Naphthalene	ND	1.0	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK 14522			
LOCATION	3/2/92		EPA 2D 25-27 DUP	
MATRIX			SOIL	
% Solid			86	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2
Chloromethane	ND	1.0	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2
Bromomethane	ND	1.0	ND	1.2
Chloroethane	ND	1.0	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2
Acetone	ND	1.0	24	1.2
Carbon Disulfide	ND	1.0	ND	1.2
2-Butanone	ND	1.0	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2
Chloroform	ND	1.0	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2
Benzene	ND	1.0	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2
Trichloroethene	ND	1.0	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2
Dibromomethane	ND	1.0	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2
Bromoform	ND	1.0	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2
2-Hexanone	ND	1.0	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2
Toluene	ND	1.0	ND	1.2
Chlorobenzene	ND	1.0	4.3	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2
p&m-Xylene	ND	1.0	1.2	1.2
o-Xylene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK 14522			
LOCATION	3/2/92		EPA 2D 25-27 DUP	
MATRIX			SOIL	
% Solid			86	
UNITS	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL
Styrene	ND	1.0	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2
Bromobenzene	ND	1.0	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2
Naphthalene	ND	1.0	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14543		14545		14548		14549	
LOCATION	3/4/92		EPA 1D 5-7		EPA 1D 15-17		EPA 1D 25-26.5		EPA 1D 25-26.5 DUP	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			88		90		81		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.1	1.8	1.1	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	ND	1.1	44	1.1	33	1.2	16	1.2
Acetone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.1	17	1.1	6.8	1.2	4.6	1.2
2-Butanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK	14543		14545		14548		14549	
LOCATION	3/4/92	EPA 1D 5-7		EPA 1D 15-17		EPA 1D 25-26.5		EPA 1D 25-26.5 DUP	
MATRIX		SOIL		SOIL		SOIL		SOIL	
% Solid		88		90		81		81	
UNITS	ug/Kg	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3-RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14551		14552		14553		14554	
LOCATION	3/4/92		EPA 1D		EPA 1D		EPA 1D		EPA 1D	
			32-33.5		34-35		40-42		42-44	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			86		83		85		76	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	3.4	1.3
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Methylene Chloride	ND	1.0	32	1.2	17	1.2	16	1.2	14	1.3
Acetone	ND	1.0	ND	1.2	ND	1.2	13	1.2	21	1.3
Carbon Disulfide	ND	1.0	8.2	1.2	4.7	1.2	10	1.2	7.5	1.3
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Benzene	ND	1.0	ND	1.2	ND	1.2	1.7	1.2	ND	1.3
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3-RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14551		14552		14553		14554	
LOCATION	3/4/92		EPA 1D		EPA 1D		EPA 1D		EPA 1D	
			32-33.5		34-35		40-42		42-44	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			86		83		85		76	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Bromobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
Naphthalene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14556		14547		
LOCATION	3/4/92	EPA 1D 46-48		EPA 1D 20-22		
MATRIX		SOIL		SOIL		
% Solid		77		73		
UNITS	ug/Kg	ug/Kg		ug/Kg		
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.3	ND	1.4
Chloromethane	ND	1.0	ND	1.3	ND	1.4
Vinyl Chloride	ND	1.0	ND	1.3	ND	1.4
Bromomethane	ND	1.0	ND	1.3	ND	1.4
Chloroethane	ND	1.0	ND	1.3	ND	1.4
Trichlorofluoromethane	ND	1.0	5.2	1.3	ND	1.4
1,1-Dichloroethene	ND	1.0	ND	1.3	ND	1.4
Methylene Chloride	ND	1.0	48	1.3	22	1.4
Acetone	ND	1.0	26	1.3	ND	1.4
Carbon Disulfide	ND	1.0	25	1.3	5.1	1.4
2-Butanone	ND	1.0	ND	1.3	ND	1.4
Vinyl Acetate	ND	1.0	ND	1.3	ND	1.4
trans-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.4
1,1-Dichloroethane	ND	1.0	ND	1.3	ND	1.4
2,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.4
cis-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.4
Chloroform	ND	1.0	ND	1.3	ND	1.4
1,1,1-Trichloroethane	ND	1.0	ND	1.3	ND	1.4
Carbon Tetrachloride	ND	1.0	ND	1.3	ND	1.4
1,1-Dichloropropene	ND	1.0	ND	1.3	ND	1.4
Benzene	ND	1.0	ND	1.3	ND	1.4
1,2-Dichloroethane	ND	1.0	ND	1.3	ND	1.4
Trichloroethene	ND	1.0	ND	1.3	ND	1.4
1,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.4
Dibromomethane	ND	1.0	ND	1.3	ND	1.4
Bromodichloromethane	ND	1.0	ND	1.3	ND	1.4
trans-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.4
cis-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.4
1,1,2-Trichloroethane	ND	1.0	ND	1.3	ND	1.4
Tetrachloroethene	ND	1.0	ND	1.3	ND	1.4
1,3-Dichloropropane	ND	1.0	ND	1.3	ND	1.4
Bromoform	ND	1.0	ND	1.3	ND	1.4
4-Methyl-2-Pentanone	ND	1.0	ND	1.3	ND	1.4
2-Hexanone	ND	1.0	ND	1.3	ND	1.4
Dibromochloromethane	ND	1.0	ND	1.3	ND	1.4
1,2-Dibromoethane	ND	1.0	ND	1.3	ND	1.4
Toluene	ND	1.0	ND	1.3	ND	1.4
Chlorobenzene	ND	1.0	ND	1.3	ND	1.4
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.4
Ethylbenzene	ND	1.0	ND	1.3	ND	1.4
p&m-Xylene	ND	1.0	ND	1.3	ND	1.4
o-Xylene	ND	1.0	ND	1.3	ND	1.4

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14556		14547	
LOCATION	3/4/92		EPA 1D 46-48		EPA 1D 20-22	
MATRIX			SOIL		SOIL	
% Solid			77		73	
UNITS	ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.3	ND	1.4
Isopropylbenzene	ND	1.0	ND	1.3	ND	1.4
Bromobenzene	ND	1.0	ND	1.3	ND	1.4
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.4
1,2,3-Trichloropropane	ND	1.0	ND	1.3	ND	1.4
n-Propylbenzene	ND	1.0	ND	1.3	ND	1.4
2-Chlorotoluene	ND	1.0	ND	1.3	ND	1.4
1,3,5-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.4
4-Chlorotoluene	ND	1.0	ND	1.3	ND	1.4
tert-Butylbenzene	ND	1.0	ND	1.3	ND	1.4
1,2,4-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.4
sec-Butylbenzene	ND	1.0	ND	1.3	ND	1.4
p-Isopropyltoluene	ND	1.0	ND	1.3	ND	1.4
1,3-Dichlorobenzene	ND	1.0	ND	1.3	ND	1.4
1,4-Dichlorobenzene	ND	1.0	ND	1.3	1.3 J	1.4
1,2-Dichlorobenzene	ND	1.0	ND	1.3	ND	1.4
n-Butylbenzene	ND	1.0	ND	1.3	ND	1.4
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.3	ND	1.4
1,2,4-Trichlorobenzene	ND	1.0	ND	1.3	ND	1.4
Hexachlorobutadiene	ND	1.0	ND	1.3	ND	1.4
Naphthalene	ND	1.0	ND	1.3	ND	1.4
1,2,3-Trichlorobenzene	ND	1.0	ND	1.3	ND	1.4

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3-RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14559		14561		14564		14565	
LOCATION	3/5/92		EPA 5 5-7		EPA 5 15-17		EPA 5 25-27		EPA 5 25-27 DUP	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			90		79		80		75	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Chloromethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Vinyl Chloride	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Bromomethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Chloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Trichlorofluoromethane	ND	1.0	ND	1.1	5.6	1.3	ND	1.2	ND	1.3
1,1-Dichloroethene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Methylene Chloride	ND	1.0	ND	1.1	14	1.3	ND	1.2	ND	1.3
Acetone	ND	1.0	ND	1.1	9.2	1.3	ND	1.2	9.7	1.3
Carbon Disulfide	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
2-Butanone	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Vinyl Acetate	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
trans-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1-Dichloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
2,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
cis-1,2-Dichloroethene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Chloroform	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1,1-Trichloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Carbon Tetrachloride	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1-Dichloropropene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Benzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2-Dichloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Trichloroethene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2-Dichloropropane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Dibromomethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Bromodichloromethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
trans-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
cis-1,3-Dichloropropene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1,2-Trichloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Tetrachloroethene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,3-Dichloropropane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Bromoform	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
4-Methyl-2-Pentanone	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
2-Hexanone	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Dibromochloromethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2-Dibromoethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Toluene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Chlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Ethylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
p&m-Xylene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
o-Xylene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3.RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14559		14561		14564		14565	
LOCATION	3/5/92		EPA 5		EPA 5		EPA 5		EPA 5	
			5-7		15-17		25-27		25-27 DUP	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			90		79		80		75	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Isopropylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Bromobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2,3-Trichloropropane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
n-Propylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
2-Chlorotoluene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,3,5-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
4-Chlorotoluene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
tert-Butylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2,4-Trimethylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
sec-Butylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
p-Isopropyltoluene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,3-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,4-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2-Dichlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
n-Butylbenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2,4-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Hexachlorobutadiene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
Naphthalene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3
1,2,3-Trichlorobenzene	ND	1.0	ND	1.1	ND	1.3	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3-RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14568		14569		14571		14572	
LOCATION	3/5/92		EPA 5		EPA 5		EPA 5		EPA 5	
			35-37		45-46		52-53.5		54-55.5	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			83		86		78		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Acetone	ND	1.0	6.2	1.2	ND	1.2	ND	1.3	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	1.8	1.2	35	1.3	33	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14568		14569		14571		14572	
LOCATION	3/5/92		EPA 5		EPA 5		EPA 5		EPA 5	
			35-37		45-46		52-53.5		54-55.5	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			83		86		78		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	3.2	1.3	2.8	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	7.0	1.3	6.5	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2	6.7	1.3	7.4	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2	ND	1.3	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOATABLE 1.3 RESULTS OF THE VOA ANALYSIS
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14573		14575		14577		14579	
LOCATION	3/5/92		EPA 5		EPA 5		EPA 5		EPA 5	
			56-57.5		60-61		62-62.7		64-65	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			76		82		83		79	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Chloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Vinyl Chloride	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Bromomethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Chloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Trichlorofluoromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Methylene Chloride	ND	1.0	ND	1.3	ND	1.2	14	1.2	24	1.3
Acetone	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Carbon Disulfide	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
2-Butanone	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Vinyl Acetate	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
trans-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1-Dichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
2,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
cis-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Chloroform	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1,1-Trichloroethane	ND	1.0	ND	1.3	7.5	1.2	2.4	1.2	2.1	1.3
Carbon Tetrachloride	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Benzene	ND	1.0	2.4	1.3	ND	1.2	ND	1.2	ND	1.3
1,2-Dichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Trichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Dibromomethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Bromodichloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
trans-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
cis-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1,2-Trichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Tetrachloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,3-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Bromoform	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
4-Methyl-2-Pentanone	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
2-Hexanone	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Dibromochloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2-Dibromoethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Toluene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Chlorobenzene	ND	1.0	67	1.3	2.9	1.2	5.6	1.2	13	1.3
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Ethylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
p&m-Xylene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
o-Xylene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14573		14575		14577		14579	
LOCATION	3/5/92		EPA 5		EPA 5		EPA 5		EPA 5	
			56-57.5		60-61		62-62.7		64-65	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			76		82		83		79	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Isopropylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Bromobenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2,3-Trichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
n-Propylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
2-Chlorotoluene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,3,5-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
4-Chlorotoluene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
tert-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2,4-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
sec-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
p-Isopropyltoluene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,3-Dichlorobenzene	ND	1.0	5.6	1.3	0.8 J	1.2	1.5	1.2	2.3	1.3
1,4-Dichlorobenzene	ND	1.0	13	1.3	1.9	1.2	2.9	1.2	5.2	1.3
1,2-Dichlorobenzene	ND	1.0	16	1.3	0.8 J	1.2	0.9 J	1.2	1.3	1.3
n-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2,4-Trichlorobenzene	ND	1.0	2.1	1.3	ND	1.2	ND	1.2	ND	1.3
Hexachlorobutadiene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
Naphthalene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3
1,2,3-Trichlorobenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.2	ND	1.3

ND denotes Not Detected
MDL denotes Method Detection Limit
J denotes that the value is estimated

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14580		14581		14582*	
LOCATION	3/6/92 #1		EPA 5		EPA 5		EPA 5	
			70-71		75-76		80-82	
MATRIX			SOIL		SOIL		SOIL	
% Solid			78		81		100	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Chloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Vinyl Chloride	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Bromomethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Chloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Trichlorofluoromethane	ND	1.0	3.3	1.3	8.3	1.2	2.8	1.00
1,1-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Methylene Chloride	ND	1.0	ND	1.3	15	1.2	12	1.00
Acetone	ND	1.0	ND	1.3	22	1.2	12	1.00
Carbon Disulfide	ND	1.0	ND	1.3	ND	1.2	ND	1.00
2-Butanone	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Vinyl Acetate	ND	1.0	ND	1.3	ND	1.2	ND	1.00
trans-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,1-Dichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
2,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
cis-1,2-Dichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Chloroform	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,1,1-Trichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Carbon Tetrachloride	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,1-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Benzene	ND	1.0	6.1	1.3	14	1.2	ND	1.00
1,2-Dichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Trichloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Dibromomethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Bromodichloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
trans-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
cis-1,3-Dichloropropene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,1,2-Trichloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Tetrachloroethene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,3-Dichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Bromoform	ND	1.0	ND	1.3	ND	1.2	ND	1.00
4-Methyl-2-Pentanone	ND	1.0	ND	1.3	ND	1.2	ND	1.00
2-Hexanone	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Dibromochloromethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2-Dibromoethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Toluene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Chlorobenzene	ND	1.0	92	1.3	177	1.2	49	1.00
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Ethylbenzene	ND	1.0	ND	1.3	3.3	1.2	ND	1.00
p&m-Xylene	ND	1.0	ND	1.3	0.4 J	1.2	ND	1.00
o-Xylene	ND	1.0	ND	1.3	1.5	1.2	ND	1.00

ND denotes Not Detected
MDL denotes Method Detection Limit
* denotes that these results are on a wet weight basis

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14580		14581		14582*	
LOCATION	3/6/92 #1		EPA 5		EPA 5		EPA 5	
			70-71		75-76		80-82	
MATRIX			SOIL		SOIL		SOIL	
% Solid			78		81		100	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Isopropylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Bromobenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2,3-Trichloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
n-Propylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
2-Chlorotoluene	ND	1.0	1.9	1.3	2.9	1.2	ND	1.00
1,3,5-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
4-Chlorotoluene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
tert-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2,4-Trimethylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
sec-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
p-Isopropyltoluene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,3-Dichlorobenzene	ND	1.0	7.1	1.3	5.7	1.2	1.8	1.00
1,4-Dichlorobenzene	ND	1.0	24	1.3	24	1.2	11	1.00
1,2-Dichlorobenzene	ND	1.0	5.7	1.3	4.9	1.2	3.2	1.00
n-Butylbenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2,4-Trichlorobenzene	ND	1.0	2.4	1.3	ND	1.2	ND	1.00
Hexachlorobutadiene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
Naphthalene	ND	1.0	ND	1.3	ND	1.2	ND	1.00
1,2,3-Trichlorobenzene	ND	1.0	ND	1.3	ND	1.2	ND	1.00

ND denotes Not Detected
MDL denotes Method Detection Limit
* denotes that these results are on a wet weight basis

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14583		14584		14588		14589	
LOCATION	3/6/92 #2		EPA 1D 48-50		EPA 1D 50-52		EPA 1D 54-55.5		EPA 1D 60-61	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			72		81		77		84	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Chloromethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Bromomethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Chloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Methylene Chloride	ND	1.0	25	1.4	11	1.2	22	1.3	16	1.2
Acetone	ND	1.0	19	1.4	12	1.2	ND	1.3	12	1.2
Carbon Disulfide	ND	1.0	17	1.4	7.2	1.2	ND	1.3	ND	1.2
2-Butanone	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Chloroform	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Benzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Trichloroethene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Dibromomethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Bromoform	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
2-Hexanone	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Toluene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Chlorobenzene	ND	1.0	ND	1.4	ND	1.2	2.2	1.3	34	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Ethylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
p&m-Xylene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
o-Xylene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14583		14584		14588		14589	
LOCATION	3/6/92 #2		EPA 1D 48-50		EPA 1D 50-52		EPA 1D 54-55.5		EPA 1D 60-61	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			72		81		77		84	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Bromobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	5.2	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
Naphthalene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.4	ND	1.2	ND	1.3	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK		14590		14591		14592		14594	
LOCATION	3/6/92		EPA 1D 65-67		EPA 1D 65-67 DUP		EPA 1D 70-71		EPA 1D 80-82	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			80		88		86		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	ND	1.2	11	1.1	13	1.2	ND	1.2
Acetone	ND	1.0	ND	1.2	6.3	1.1	ND	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	37	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	6.3	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	14	1.2	12	1.1	ND	1.2	230	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK		14590		14591		14592		14594	
LOCATION	3/6/92		EPA 1D 65-67		EPA 1D 65-67 DUP		EPA 1D 70-71		EPA 1D 80-82	
MATRIX			SOIL		SOIL		SOIL		SOIL	
% Solid			80		88		86		81	
UNITS	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	5.5	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	28	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	1.0 J	1.2	1.1 J	1.1	ND	1.2	39	1.2
1,4-Dichlorobenzene	ND	1.0	4.5	1.2	4.2	1.1	ND	1.2	115	1.2
1,2-Dichlorobenzene	ND	1.0	0.9 J	1.2	0.9 J	1.1	ND	1.2	68	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	4.4	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.1	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit
J denotes that the value is estimated

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

SAMPLE #	METHOD BLANK	14593		14586		
LOCATION	3/7/92	EPA 1D 75-77		EPA 1D 52-54		
MATRIX		SOIL		SOIL		
% Solid		81		80		
UNITS	ug/Kg	ug/Kg		ug/Kg		
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Dichlorodifluoromethane	ND	1.0	ND	1.2	ND	1.2
Chloromethane	ND	1.0	ND	1.2	ND	1.2
Vinyl Chloride	ND	1.0	ND	1.2	ND	1.2
Bromomethane	ND	1.0	ND	1.2	ND	1.2
Chloroethane	ND	1.0	ND	1.2	ND	1.2
Trichlorofluoromethane	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
Methylene Chloride	ND	1.0	8.8	1.2	ND	1.2
Acetone	ND	1.0	8.6	1.2	ND	1.2
Carbon Disulfide	ND	1.0	ND	1.2	ND	1.2
2-Butanone	ND	1.0	ND	1.2	ND	1.2
Vinyl Acetate	ND	1.0	ND	1.2	ND	1.2
trans-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloroethane	ND	1.0	ND	1.2	ND	1.2
2,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
cis-1,2-Dichloroethene	ND	1.0	ND	1.2	ND	1.2
Chloroform	ND	1.0	ND	1.2	ND	1.2
1,1,1-Trichloroethane	ND	1.0	ND	1.2	ND	1.2
Carbon Tetrachloride	ND	1.0	ND	1.2	ND	1.2
1,1-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
Benzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichloroethane	ND	1.0	ND	1.2	ND	1.2
Trichloroethene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
Dibromomethane	ND	1.0	ND	1.2	ND	1.2
Bromodichloromethane	ND	1.0	ND	1.2	ND	1.2
trans-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
cis-1,3-Dichloropropene	ND	1.0	ND	1.2	ND	1.2
1,1,2-Trichloroethane	ND	1.0	ND	1.2	ND	1.2
Tetrachloroethene	ND	1.0	ND	1.2	ND	1.2
1,3-Dichloropropane	ND	1.0	ND	1.2	ND	1.2
Bromoform	ND	1.0	ND	1.2	ND	1.2
4-Methyl-2-Pentanone	ND	1.0	ND	1.2	ND	1.2
2-Hexanone	ND	1.0	ND	1.2	ND	1.2
Dibromochloromethane	ND	1.0	ND	1.2	ND	1.2
1,2-Dibromoethane	ND	1.0	ND	1.2	ND	1.2
Toluene	ND	1.0	ND	1.2	ND	1.2
Chlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,1,1,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2
Ethylbenzene	ND	1.0	ND	1.2	ND	1.2
p&m-Xylene	ND	1.0	ND	1.2	ND	1.2
o-Xylene	ND	1.0	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

TABLE 1.3 RESULTS OF THE VOA ANALYSIS FOR THE SOIL SAMPLES
WO # 3347-31-01-4598 PERTH AMBOY WELL FIELD

CLIENT ID	METHOD BLANK	14593		14586	
LOCATION	3/7/92	EPA 1D		EPA 1D	
		75-77		52-54	
MATRIX		SOIL		SOIL	
% Solid		81		80	
UNITS	ug/Kg	ug/Kg		ug/Kg	
COMPOUND NAME	Conc.	MDL	Conc.	MDL	Conc	MDL
Styrene	ND	1.0	ND	1.2	ND	1.2
Isopropylbenzene	ND	1.0	ND	1.2	ND	1.2
Bromobenzene	ND	1.0	ND	1.2	ND	1.2
1,1,2,2-Tetrachloroethane	ND	1.0	ND	1.2	ND	1.2
1,2,3-Trichloropropane	ND	1.0	ND	1.2	ND	1.2
n-Propylbenzene	ND	1.0	ND	1.2	ND	1.2
2-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2
1,3,5-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2
4-Chlorotoluene	ND	1.0	ND	1.2	ND	1.2
tert-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
1,2,4-Trimethylbenzene	ND	1.0	ND	1.2	ND	1.2
sec-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
p-Isopropyltoluene	ND	1.0	ND	1.2	ND	1.2
1,3-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,4-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dichlorobenzene	ND	1.0	ND	1.2	ND	1.2
n-Butylbenzene	ND	1.0	ND	1.2	ND	1.2
1,2-Dibromo-3-Chloropropane	ND	1.0	ND	1.2	ND	1.2
1,2,4-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2
Hexachlorobutadiene	ND	1.0	ND	1.2	ND	1.2
Naphthalene	ND	1.0	ND	1.2	ND	1.2
1,2,3-Trichlorobenzene	ND	1.0	ND	1.2	ND	1.2

ND denotes Not Detected
MDL denotes Method Detection Limit

Table 1.4 VOA Tentatively Identified Compounds for the Soil Samples from Perth Amboy Wellfield

Sample ID	Location	Compound
Method Blank 2/20/92		None Found
14456	EPA 4D 5-7'	None Found
Method Blank 2/21/92		None Found
14462	EPA 4D 28-29.5	None Found
14470	EPA 4D 38-39.3	None Found
14458	EPA 4D 15-17	None Found
14471	EPA 4D 42-43.4	None Found
14473	EPA 4D 46-47.5	None Found
14481	EPA 4D 70-71.5	None Found
14468	EPA 4D 34-35.3	None Found
Method Blank 2/22/92		None Found
14461	EPA 4D 26.5-28	None Found
14463	EPA 4D 28-29.5 DUP	None Found
14477	EPA 4D 60-60.9'	None Found
14482	EPA 4D 75-77'	None Found
14475	EPA 4D 50-52'	None Found
14484	EPA 4D 80-82'	None Found
Method Blank 2/26/92		None Found
14495	EPA 3D 29-30.5	None Found
14498	EPA 3D 35-36	None Found
14503	EPA 3D 41-42	None Found
14505	EPA 3D 45-45.8	None Found
14506	EPA 3D 50-51.2	None Found
14507	EPA 3D 55-56	None Found
14511	EPA 3D 75-76.5	None Found
14488	EPA 3D 5-7	None Found
14491	EPA 3D 15-17	None Found
Method Blank 2/27/92 #1		None Found
14485	Bentonite	None Found

Table 1.4 VOA Tentatively Identified Compounds for the Soil Samples from Perth Amboy Wellfield

Sample ID	Location	Compound	Concentration* (ug/kg)	Retention Time (minutes)
Method Blank 2/27/92 #2		None Found		
14514	EPA 3D 100-102	None Found		
14515	EPA 3D 5-7	alpha-Pinene	270	20.52
		beta-Pinene	30	22.08
		cycloalkene	10	23.50
		possible phellandrene	7	23.66
14516	EPA 3D 11-12	None Found		
14517	EPA 3D 16-17	None Found		
14509	EPA 3D 65-66.5	None Found		
14512	EPA 3D 75-76.5 DUP	None Found		
14492	EPA 3D 20-21.5	None Found		
14490	EPA 3D 10-12	None Found		
14493	EPA 3D 25-26.5	None Found		
Method Blank 2/28/92		None Found		
14521	EPA 2D 25-27	None Found		
14527	EPA 2D 33-34.5	None Found		
14530	EPA 2D 39-41	None Found		
14533	EPA 2D 45-46	None Found		
14535	EPA 2D 55-56	None Found		
14537	EPA 2D 65-67	None Found		
14538	EPA 2D 70-71	None Found		
14539	EPA 2D 75-76	None Found		
14541	EPA 2D 80-81.5	None Found		
Method Blank 3/2/92		None Found		
14522	EPA 2D 25-27 DUP	None Found		
Method Blank 3/4/92		None Found		
14543	EPA 1D 5-7	None Found		
14545	EPA 1D 15-17	None Found		
14548	EPA 1D 25-26.5	None Found		
14549	EPA 1D 25-26.5 DUP	None Found		
14551	EPA 1D 32-33.5	None Found		
14552	EPA 1D 34-35	None Found		
14553	EPA 1D 40-42	None Found		
14554	EPA 1D 42-44	None Found		
14556	EPA 1D 46-48	None Found		
14547	EPA 1D 20-22	None Found		

* denotes that the concentrations are estimated - the response factor was assumed to be 1.00

Table 1.4 VOA Tentatively Identified Compounds for the Soil Samples from Perth Amboy Wellfield

Sample ID	Location	Compound	Concentration* (ug/kg)	Retention Time (minutes)
Method Blank 3/5/92		None Found		
14559	EPA 5 5-7	None Found		
14561	EPA 5 15-17	None Found		
14564	EPA 5 25-27	None Found		
14565	EPA 5 25-27 DUP	None Found		
14568	EPA 5 35-37	None Found		
14569	EPA 5 45-46	None Found		
14571	EPA 5 52-53.5	None Found		
14572	EPA 5 54-55.5	None Found		
14573	EPA 5 56-57.5	None Found		
14575	EPA 5 60-61	None Found		
14577	EPA 5 62-62.7	None Found		
14579	EPA 5 64-65	None Found		
Method Blank 3/6/92 #1		None Found		
14580	EPA 5 70-71	None Found		
14581	EPA 5 75-76	None Found		
14582	EPA 5 80-82	None Found		
Method Blank 3/6/92 #2		None Found		
14583	EPA 1D 48-50	None Found		
14584	EPA 1D 50-52	None Found		
14588	EPA 1D 54-55.5	None Found		
14589	EPA 1D 60-61	None Found		
14590	EPA 1D 65-67	None Found		
14591	EPA 1D 65-67 DUP	None Found		
14592	EPA 1D 70-71	None Found		
14594	EPA 1D 80-82	Unknown	6	10.87
Method Blank 3/7/92		None Found		
14593	EPA 1D 75-77	None Found		
14586	EPA 1D 52-54	None Found		

* denotes that the concentrations are estimated - the response factor was assumed to be 1.00

Table 1.5

Results of the Metals in Water Analysis

WA# 4598 PERTH AMBOY WELL FIELD

Client #	13705	METHOD
Location:	Raritan Depot Fire Hydrant	DETECTION LIMIT
Unit:	ug/l	ug/l
Parameter:		
Beryllium	ND	1.3
Cadmium	ND	5
Chromium	ND	5
Copper	ND	25
Lead	ND	5
Nickel	ND	25
Zinc	890	10

ND denotes Not Detected

Table 1.5 (Cont)
Results of the Metals in Water Analysis
WA# 4598 PERTH AMBOY WELL FIELD

Client #	Location:	Parameter: BERYLLIUM	METHOD DETECTION LIMIT	CADMIUM	METHOD DETECTION LIMIT	CHROMIUM	METHOD DETECTION LIMIT	COPPER	METHOD DETECTION LIMIT
	Unit:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
A15100	Supply well #5	ND	1.3	7	5	ND	6	120	25
A15101	Supply well #6	1.5	1.3	ND	5	ND	6	ND	25
A15102	Supply well #7	1.3	1.3	ND	5	ND	6	ND	25
A15104	Supply well #8	2.3	1.3	ND	5	ND	6	ND	25
A15105	Finished water	ND	1.3	6	5	6	6	28	25
A15110	EPA -3	2.0	1.3	8	5	8	6	ND	25
A15111	EPA -1	1.3	1.3	ND	5	12	6	ND	25
A15112	DW -14	3.3	1.3	11	5	20	6	31	25
A15114	EPA -10	1.8	1.3	7	5	10	6	ND	25
A15115	DW -9S	5.3	1.3	11	5	64	6	34	25
A15116	DW -9D	1.8	1.3	9	5	32	6	ND	25
A15064	EPA -4	1.8	1.3	ND	5	27	6	ND	25
A15065	EPA -2	3.0	1.3	6	5	30	6	ND	25
A15066	EPA 20	3.0	1.3	8	5	35	6	30	25
A15068	DW -12	2.0	1.3	12	5	30	6	99	25
A15069	DW -11D	2.5	1.3	8	5	83	6	58	25
A15070	DW -11S	2.5	1.3	9	5	66	6	ND	25
A14595	DW -8S	ND	1.3	9	5	21	6	36	25
A14596	DW -8D	ND	1.3	ND	5	30	6	ND	25
A15071	Bailer Rinsate (DW-13S)	ND	1.3	ND	5	ND	6	ND	25
A15072	DW -13S	ND	1.3	ND	5	69	6	33	25
A15073	DW -13D	ND	1.3	ND	5	ND	6	ND	25
A15074	EPA -5	1.8	1.3	ND	5	11	6	ND	25
A15106	Bailer Rinsate	ND	1.3	ND	5	ND	6	ND	25
A15108	DI Water	ND	1.3	ND	5	ND	6	ND	25
A15117	DW -10D	ND	1.3	ND	5	13	6	ND	25
A15118	DW -10S	ND	1.3	ND	5	38	6	ND	25

ND denotes Not Detected

Table 1.5 (Cont)
Results of the Metals in Water Analysis
WA# 4598 PERTH AMBOY WELL FIELD

Client #	Location:	Parameter:	LEAD	METHOD DETECTION LIMIT	NICKEL	METHOD DETECTION LIMIT	ZINC	METHOD DETECTION LIMIT
		Unit:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
A15100	Supply well #5		140	5	63	25	2800	10
A15101	Supply well #6		9	5	42	25	560	10
A15102	Supply well #7		6	5	32	25	120	10
A15104	Supply well #8		ND	5	42	25	190	10
A15105	Finished water		6	5	39	25	43	10
A15110	EPA -3		ND	5	81	25	4400	10
A15111	EPA -1		ND	5	47	25	550	10
A15112	DW -14		21	5	72	25	200	10
A15114	EPA -10		6	5	66	25	710	10
A15115	DW -9S		16	5	110	25	330	10
A15116	DW -9D		ND	5	53	25	240	10
A15064	EPA -6		13	5	60	25	130	10
A15065	EPA -2		8	5	99	25	290	10
A15066	EPA 20		14	5	110	25	310	10
A15068	DW -12		ND	5	180	25	23000	10
A15069	DW -11D		16	5	70	25	280	10
A15070	DW -11S		9	5	61	25	700	10
A14595	DW -8S		8	5	120	25	14000	10
A14596	DW -8D		6	5	41	25	2800	10
A15071	Bailer Rinsate (DW-13S)		ND	5	ND	25	31	10
A15072	DW -13S		120	5	ND	25	48	10
A15073	DW -13D		ND	5	32	25	1900	10
A15074	EPA -5		8	5	36	25	360	10
A15106	Bailer Rinsate		ND	5	ND	25	ND	10
A15108	DI Water		ND	5	ND	25	ND	10
A15117	DW -10D		ND	5	ND	25	10	10
A15118	DW -10S		12	5	26	25	24	10

ND denotes Not Detected

Section II

QA/QC FOR VOA

Prior to analysis, each sample was spiked with three surrogate standards. The volatile surrogate percent recoveries for the water samples, which ranged from 68 to 132, are listed in Table 2.1. Five of two hundred and fifty-five values exceeded acceptable QC limits. The volatile surrogate percent recoveries for the soil samples, which ranged from 64 to 143, are listed in Table 2.2. Five of three hundred and twenty-one values exceeded acceptable QC limits.

The internal standard areas are listed in Table 2.3. Eighteen of five hundred and sixty-one values exceeded acceptable QC limits.

Samples 14489, 14558, 15111, 15065, and 15118 were chosen for the matrix spike/matrix spike duplicate (MS/MSD) analysis for the water samples. The percent recoveries, ranging from 96 to 122, and the relative percent differences (RPDs), which varied from 0 (zero) to 19 are listed in Table 2.4. Two of the RPDs exceeded aceptable QC limits. Samples 14462, 14482, 14507, 14514, 14539, 14554, and 14572 were chosen for the MS/MSD analysis for the soil samples. The percent recoveries, ranging from 78 to 138, and the RPDs, which varied from 0 (zero) to 27 are listed in Table 2.5. No percent recoveries, but one of the RPDs exceeded aceptable QC limits.

TABLE 2.1
WATER VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 2/20/92 #1	102	95	99	0
14455	101	96	99	0
14465	101	96	101	0
14464	100	96	99	0
MB 2/20/92 #2	93	99	105	0
14479	99	95	106	0
14480	98	97	105	0
MB 2/22/92	99	92	100	0
14483	123	68	100	0
MB 2/25/92	101	90	95	0
14486	103	94	97	0
14487	105	90	100	0
MB 2/26/92	100	95	99	0
14500	102	100	105	0
14489	101	99	106	0
13706	102	100	107	0
14501	102	99	107	0
14489 MS	103	102	105	0
14489 MSD	103	104	109	0
MB 2/27/92 #1	96	97	100	0
14518	97	100	112	0
MB 2/27/92 #2	97	100	104	0
14513	99	99	109	0

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(88-110)
S2 (BFB)	=	Bromofluorobenzene	(86-115)
S3 (DCE)	=	1,2-Dichloroethane-d4	(76-114)

TABLE 2.1
WATER VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 2/28/92	97	96	105	0
14519	97	100	114	0
14523	98	100	114	0
MB 3/4/92	96	97	107	0
14542	97	97	107	0
14558	99	99	101	0
14558MS	102	100	98	0
14558 MSD	100	101	103	0
MB 3/5/92	97	96	98	0
14557	99	99	101	0
14546	96	102	104	0
14562	95	103	112	0
14576	96	103	101	0
14578	98	101	101	0
MB 3/6/92	100	92	96	0
14585	99	94	98	0
14587	99	94	103	0
MB 3/12/92	99	95	97	0
15103	98	98	102	0
15105	97	98	101	0
15110	97	97	109	0
15114	99	103	116*	1
MB 3/13/92	95	93	93	0
15107	98	98	104	0
15100	97	98	108	0
15070	97	99	110	0

* denotes that this value exceeds acceptable QC limits

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(88-110)
S2 (BFB)	=	Bromofluorobenzene	(86-115)
S3 (DCE)	=	1,2-Dichloroethane-d4	(76-114)

TABLE 2.1
WATER VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 3/13/92 #2	98	98	98	0
15108	100	101	109	0
15106	100	101	111	0
15071	100	100	105	0
14595	99	97	102	0
14596	101	100	99	0
15072	100	97	97	0
15073	101	96	96	0
15117	103	100	97	0
15074	102	99	97	0
15111	103	99	95	0
MB 3/14/92	97	95	107	0
15104	97	97	114	0
15068	96	98	113	0
15115	97	96	113	0
15101	98	98	111	0
15066	98	98	111	0
15112	98	98	108	0
15065	98	96	108	0
15065 MS	101	102	108	0
15065 MSD	98	98	106	0
15117 (1:5)	97	97	109	0
15074 (1:2)	100	103	123*	1
15111 (1:5)	100	105	132*	1
15111 (1:5) MS	101	110	131*	1
15111 (1:5) MSD	102	110	110	0

° denotes that this value exceeds acceptable QC limits

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(88-110)
S2 (BFB)	=	Bromofluorobenzene	(86-115)
S3 (DCE)	=	1,2-Dichloroethane-d4	(76-114)

TABLE 2.1
WATER VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 3/16/92	99	94	103	0
15102	100	95	107	0
15116	102	97	112	0
15069	101	100	114	0
MB 3/17/92	100	100	105	0
15064	101	100	107	0
15118	101	102	111	0
15118 MS	103	106	110	0
15118 MSD	103	104	106	0
15114 (1:5)	98	103	116*	1

* denotes that this value exceeds acceptable QC limits

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(88-110)
S2 (BFB)	=	Bromofluorobenzene	(86-115)
S3 (DCE)	=	1,2-Dichloroethane-d4	(76-114)

TABLE 2.2
SOIL VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 2/20/92	99	93	105	0
14456	106	106	108	0
MB 2/21/92	98	97	98	0
14456 1:10	99	97	102	0
14462	100	93	106	0
14462 MS	101	100	104	0
14462 MSD	100	104	105	0
14468	128	68	105	0
14470	106	87	106	0
14458	100	96	109	0
14471	101	97	106	0
14473	107	87	107	0
14481	100	95	107	0
MB 2/22/92	99	92	100	0
14461	105	83	101	0
14463	103	89	100	0
14477	119	69	102	0
14482	105	84	105	0
14482 MS	104	92	104	0
14482 MSD	105	91	105	0
14475	108	81	105	0
14484	103	89	105	0

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(84-138)
S2 (BFB)	=	Bromofluorobenzene	(59-113)
S3 (DCE)	=	1,2-Dichloroethane-d4	(70-121)

TABLE 2.2
SOIL VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 2/26/92	98	90	97	0
14495	115	71	99	0
14498	99	88	101	0
14503	100	86	99	0
14505	103	81	102	0
14506	103	86	102	0
14507	103	81	99	0
14507 MS	100	95	99	0
14507 MSD	101	87	99	0
14511	99	83	99	0
14488	101	85	102	0
14491	106	78	101	0
MB 2/27/92 #1	96	97	100	0
14485	100	95	114	0
MB 2/27/92 #2	100	97	104	0
14514	100	98	104	0
14515	100	102	113	0
14516	100	99	112	0
14517	124	76	115	0
14509	100	98	112	0
14512	100	97	114	0
14492	100	99	112	0
14490	99	100	113	0
14514 MS	100	98	111	0
14514 MSD	101	99	108	0
14493	99	96	106	0

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(84-138)
S2 (BFB)	=	Bromofluorobenzene	(59-113)
S3 (DCE)	=	1,2-Dichloroethane-d4	(70-121)

TABLE 2.2
SOIL VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 2/28/92	100	93	91	0
14521	105	85	94	0
14527	102	88	95	0
14530	118	74	95	0
14533	112	81	98	0
14535	118	77	97	0
14537	108	85	100	0
14538	109	81	97	0
14539	101	93	99	0
14539 MS	102	91	100	0
14539 MSD	101	94	98	0
14541	101	93	98	0
MB 3/2/92	97	91	106	0
14522	111	71	106	0
MB 3/4/92	99	95	94	0
14543	98	94	98	0
14545	106	84	100	0
14548	101	95	102	0
14549	100	95	104	0
14551	102	92	102	0
14552	100	95	103	0
14553	112	82	101	0
14554	122	79	103	0
14554 MS	139*	75	100	1
14554 MSD	143*	72	99	1
14556	142*	71	100	1
14547	100	95	101	0

* denotes that this value exceeds acceptable QC limits

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(84-138)
S2 (BFB)	=	Bromofluorobenzene	(59-113)
S3 (DCE)	=	1,2-Dichloroethane-d4	(70-121)

TABLE 2.2
SOIL VOLATILE SURROGATE RECOVERIES

EPA SAMPLE NO.	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOT OUT
MB 3/5/92	100	101	99	0
14559	103	95	92	0
14561	140*	64	95	1
14564	117	76	95	0
14565	120	77	97	0
14568	101	99	99	0
14569	103	98	100	0
14571	103	96	99	0
14572	102	98	98	0
14572MS	103	100	99	0
14572MSD	103	101	98	0
14573	105	97	99	0
14575	104	99	101	0
14577	102	96	103	0
14579	102	97	100	0
MB 3/6/92	100	92	96	0
14580	101	93	104	0
14581	119	74	105	0
14582	127	71	108	0
MB 3/6/92	101	94	97	0
14583	124	78	99	0
14584	117	83	99	0
14588	104	92	103	0
14589	105	83	101	0
14590	104	94	104	0
14591	105	92	104	0
14592	103	94	106	0
14594	143*	66	104	1
MB 3/7/92	98	101	100	0
14593	97	100	104	0
14586	105	94	106	0
14594 (1:5)	107	86	107	0

* denotes that this value exceeds acceptable QC limits

			QC LIMITS
S1 (TOL)	=	Toluene-d8	(84-138)
S2 (BFB)	=	Bromofluorobenzene	(59-113)
S3 (DCE)	=	1,2-Dichloroethane-d4	(70-121)

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	37813	10.14	156812	12.35	125814	18.40
	UPPER LIMIT	75626		313624		251628	
	LOWER LIMIT	18906		78406		62907	
	EPA SAMPLE NO.						
01	MB 2/20/92	37476	10.16	167585	12.34	134885	18.42
02	14455	38828	10.15	164410	12.33	133095	18.40
03	14465	37533	10.16	163741	12.34	133360	18.42
04	14464	34720	10.16	157941	12.34	129134	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	40532	10.09	172077	12.32	139839	18.43
	UPPER LIMIT	81064		344154		279678	
	LOWER LIMIT	20266		86038		69920	
	EPA SAMPLE NO.						
01	MB 2/20/92	35947	10.14	161709	12.34	130323	18.42
02	14479	36756	10.14	157662	12.35	129250	18.42
03	14480	36864	10.14	155295	12.34	127259	18.42
04	14456	32149	10.14	132690	12.35	100587	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA #	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	42545	10.09	178796	12.32	138061	18.40
	UPPER LIMIT	85090		357592		276122	
	LOWER LIMIT	21273		89398		69030	
	EPA SAMPLE NO.						
01	MB 2/21/92	41186	10.05	166549	12.31	131253	18.41
02	14456 1:10	38148	10.11	157376	12.32	126643	18.40
03	14462	29804	10.14	125113	12.35	100701	18.42
04	14462 MS	30115	10.14	124202	12.32	98982	18.40
05	14462 MSD	30146	10.14	128280	12.35	101256	18.43
06	14468	22860	10.14	81514*	12.32	46826*	18.42
07	14470	27656	10.14	113964	12.32	86196	18.42
08	14458	29784	10.14	129039	12.32	104187	18.42
09	14471	29857	10.14	130354	12.32	103451	18.42
10	14473	28408	10.14	117116	12.32	87400	18.42
11	14481	30706	10.14	128758	12.35	103688	18.42

° denotes that this value exceeds acceptable QC limits

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	39174	10.15	171848	12.33	135433	18.41
	UPPER LIMIT	78348		343696		270866	
	LOWER LIMIT	19587		85924		67716	
	EPA SAMPLE NO.						
01	MB 2/22/92	38606	10.14	169262	12.32	138868	18.42
02	14461	32277	10.11	131186	12.32	101229	18.42
03	14463	31893	10.13	136468	12.34	105125	18.41
04	14477	27014	10.13	105446	12.33	68786	18.41
05	14482	31528	10.14	130646	12.34	98714	18.42
06	14482 MS	28605	10.14	122917	12.35	95719	18.43
07	14482 MSD	29735	10.14	121275	12.32	913280	18.40
08	14483	25937	10.11	113321	12.32	70742	18.42
09	14475	29608	10.14	126644	12.34	93625	18.42
10	14484	28834	10.14	124196	12.32	98090	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	38641	10.12	178654	12.33	143210	18.41
	UPPER LIMIT	77282		357308		286420	
	LOWER LIMIT	19321		89327		71605	
	EPA SAMPLE NO.						
01	MB 2/25/92	40544	10.11	183131	12.32	148563	18.42
02	14486	38645	10.13	169725	12.34	138554	18.41
03	14487	33858	10.14	150143	12.35	119325	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA #	RT	IS2 (DFB) AREA #	RT	IS3 (CBZ) AREA #	RT
	12 HOUR STD	42262	10.10	184731	12.34	143464	18.42
	UPPER LIMIT	84524		369462		286928	
	LOWER LIMIT	21131		92365		71732	
	EPA SAMPLE NO.						
01	MB 2/26/92	41113	10.11	181597	12.32	143927	18.40
02	14500	38495	10.16	169480	12.34	134424	18.42
03	14489	37428	10.16	159678	12.34	129193	18.41
04	13706	35258	10.17	151723	12.34	123103	18.42
05	14501	34684	10.16	151295	12.33	123900	18.41
06	14489 MS	35383	10.15	150836	12.36	121291	18.41
07	14489 MSD	33916	10.15	150832	12.36	119272	18.41

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	37147	10.15	158134	12.33	127289	18.41
	UPPER LIMIT	74294		316268		254578	
	LOWER LIMIT	18573		79067		63645	
	EPA SAMPLE NO.						
01	MB 2/26/92	40716	10.16	171907	12.34	139000	18.42
02	14495	30004	10.17	114813	12.35	73847	18.42
03	14498	33760	10.17	148622	12.35	118046	18.42
04	14503	32653	10.17	139370	12.35	110042	18.42
05	14505	31668	10.17	133516	12.34	102317	18.42
06	14506	30491	10.17	131334	12.35	99725	18.42
07	14507	31460	10.14	130984	12.35	99502	18.42
08	14507 MS	33904	10.17	140093	12.35	109841	18.43
09	14507 MSD	33741	10.15	143323	12.36	110951	18.44
10	14511	32014	10.17	133889	12.35	105729	18.42
11	14488	33267	10.17	138017	12.35	106867	18.42
12	14491	31704	10.17	127815	12.35	93238	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	38929	10.12	170462	12.33	133903	18.44
	UPPER LIMIT	77858		340924		267806	
	LOWER LIMIT	19464		85231		66951	
	EPA SAMPLE NO.						
01	MB 2/27/92	40155	10.14	173996	12.35	144004	18.43
02	14518	35213	10.17	168729	12.35	136216	18.43
03	14485	29165	10.17	135698	12.35	106205	18.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	44669	10.14	197745	12.35	156551	18.43
	UPPER LIMIT	89338		395490		313102	
	LOWER LIMIT	22334		98872		78275	
	EPA SAMPLE NO.						
01	MB 2/27/92	45021	10.14	198852	12.35	160600	18.43
02	14514	33318	10.09	138202	12.32	108251	18.43
03	14515	32240	10.17	142038	12.35	117366	18.43
04	14516	30632	10.17	134338	12.35	108470	18.42
05	14517	23167	10.17	88458*	12.35	54400*	18.43
06	14509	27482	10.17	118915	12.35	97974	18.42
07	14512	31191	10.17	137024	12.35	112582	18.42
08	14492	30717	10.14	136155	12.35	109250	18.43
09	14490	29727	10.17	131147	12.35	108343	18.42
10	14514 MS	33082	10.14	140991	12.35	112229	18.43
11	14514 MSD	34907	10.17	145364	12.35	113499	18.43
12	14493	32061	10.17	132001	12.35	108579	18.43
13	14513	42033	10.17	179657	12.35	150844	18.43

* denotes that this value exceeds acceptable QC limits

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	38358	10.15	174677	12.33	142257	18.41
	UPPER LIMIT	76716		349354		284514	
	LOWER LIMIT	19179		87339		71129	
	EPA SAMPLE NO.						
01	MB 2/28/92	36804	10.14	177761	12.35	144358	18.42
02	14519	34477	10.17	167615	12.35	137725	18.43
03	14523	34235	10.17	163680	12.36	133266	18.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	46405	10.11	193658	12.32	155188	18.43
	UPPER LIMIT	92810		387316		310236	
	LOWER LIMIT	23203		96829		77559	
	EPA SAMPLE NO.						
01	MB 2/28/92	49894	10.12	219843	12.35	177826	18.43
02	14521	36710	10.07	153581	12.30	112796	18.41
03	14527	34951	10.11	147621	12.35	158817	18.45
04	14530	32098	10.14	125308	12.35	84440	18.46
05	14533	32662	10.12	135047	12.35	96181	18.43
06	14535	30655	10.14	120853	12.35	79116	18.45
07	14537	35759	10.14	151196	12.35	112913	18.43
08	14538	36793	10.14	154555	12.35	113514	18.43
09	14539	34627	10.14	149258	12.35	120607	18.43
10	14539 MS	36208	10.15	154088	12.36	121123	18.44
11	14539 MSD	36626	10.17	156839	12.36	126872	18.44
12	14541	33239	10.14	141542	12.35	117320	18.46

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	49610	10.14	216338	12.33	172871	18.41
	UPPER LIMIT	99220		432676		345742	
	LOWER LIMIT	24805		108169		86436	
	EPA SAMPLE NO.						
01	MB 3/2/92	46815	10.14	212427	12.33	173310	18.40
02	14522	33800	10.09	139542	12.33	95080	18.41

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	39839	10.17	169829	12.35	138856	18.43
	UPPER LIMIT	79678		339658		277712	
	LOWER LIMIT	19920		84915		69428	
	EPA SAMPLE NO.						
01	MB 3/4/92	41293	10.17	182448	12.35	155895	18.43
02	14542	39341	10.17	173022	12.35	143062	18.43
03	14558	43622	10.17	186349	12.35	154521	18.43
04	14558 MS	44272	10.17	187238	12.36	148034	18.44
05	14558 MSD	43902	10.15	189441	12.36	155917	18.44

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	44853	10.12	195687	12.35	155636	18.43
	UPPER LIMIT	89706		391374		311272	
	LOWER LIMIT	22427		97844		77818	
	EPA SAMPLE NO.						
01	MB 3/4/92	50292	10.04	189665	12.20	153881	18.38
02	14543	34509	10.11	135463	12.32	109073	18.42
03	14545	36926	10.07	143647	12.31	103996	18.41
04	14548	35127	10.08	137081	12.31	106325	18.42
05	14549	32519	10.06	129115	12.29	102032	18.43
06	14551	24333	10.05	134087	12.29	100769	18.42
07	14552	36180	10.06	141585	12.29	115017	18.43
08	14553	32616	10.07	121847	12.31	82917	18.41
09	14554	25510	10.09	94003*	12.32	56857*	18.43
10	14554 MS	23671	10.11	79997*	12.35	41473*	18.43
11	14554 MSD	23912	10.12	83244	12.33	40688	18.43
12	14556	21134*	10.10	80179*	12.34	39658*	18.42
13	14547	39291	10.08	160061	12.31	127290	18.42

* denotes that this value exceeds acceptable QC limits

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	39693	10.15	184362	12.36	145584	18.41
	UPPER LIMIT	79386		368724		291168	
	LOWER LIMIT	19847		92181		72792	
	EPA SAMPLE NO.						
01	MB 3/5/92	44877	10.15	200894	12.34	163515	18.41
02	14557	39436	10.14	180602	12.35	146388	18.42
03	14546	40437	10.13	172544	12.33	141758	18.41
04	14562	37155	10.12	161460	12.36	138183	18.44
05	14576	40457	10.08	161502	12.31	134231	18.42
06	14578	44387	10.06	177357	12.30	142905	18.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	38117	10.08	160937	12.32	133223	18.4311
	UPPER LIMIT	76234		321874		266446	
	LOWER LIMIT	19059		80469		66612	
	EPA SAMPLE NO.						
01	MB 3/5/92	44508	10.09	184234	12.32	154346	18.43
02	14559	42097	10.06	155308	12.22	127968	18.40
03	14561	33019	10.06	116179	12.30	59433*	18.43
04	14564	31332	10.12	123171	12.35	82036	18.43
05	14565	30207	10.09	121257	12.32	79014	18.43
06	14568	29868	10.04	125621	12.30	102971	18.43
07	14569	31248	10.06	131069	12.30	102245	18.43
08	14571	29627	10.06	123692	12.30	97985	18.43
09	14572	31443	10.09	127728	12.32	103076	18.43
10	14572 MS	31394	10.12	133963	12.36	106404	18.44
11	14572 MSD	32590	10.12	137830	12.35	110300	18.43
12	14573	29034	10.09	123189	12.32	96838	18.43
13	14575	30668	10.06	131120	12.30	100840	18.43
14	14577	30649	10.12	132104	12.35	105203	18.43
15	14579	29297	10.09	124340	12.35	102739	18.43

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	37037	10.07	158208	12.30	125539	18.41
	UPPER LIMIT	74074		316416		251078	
	LOWER LIMIT	18519		79104		62770	
	EPA SAMPLE NO.						
01	MB 3/6/92	38017	10.08	161123	12.32	128235	18.42
02	14585	38314	10.12	157521	12.33	128318	18.41
03	14587	35462	10.11	150655	12.34	123476	18.42
04	14580	26148	10.09	107400	12.30	86366	18.41
05	14581	22807	10.10	84649	12.31	53339*	18.42
06	14582	22987	10.11	80449	12.34	48227*	18.42

° denotes that this value exceeds acceptable QC limits

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	42625	10.05	165717	12.23	138271	18.39
	UPPER LIMIT	85250		331434		276542	
	LOWER LIMIT	21313		82859		69136	
	EPA SAMPLE NO.						
01	MB 3/6/92	44985	10.06	190520	12.30	148988	18.40
02	14583	26105	10.11	95272	12.32	57928*	18.42
03	14584	27103	10.11	97196	12.32	62573*	18.42
04	14588	27447	10.09	106176	12.32	84387	18.43
05	14589	27310	10.07	109319	12.31	81031	18.41
06	14590	29889	10.08	118438	12.32	93203	18.42
07	14591	30047	10.08	121386	12.32	94476	18.42
08	14592	25859	10.11	102854	12.35	83458	18.42
09	14594	22370	10.08	74788*	12.32	41270*	18.42

* denotes that this value exceeds acceptable QC limits

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	39805	10.06	172645	12.29	132563	18.40
	UPPER LIMIT	79610		345290		265126	
	LOWER LIMIT	19903		86323		66282	
	EPA SAMPLE NO.						
01	MB 3/7/92	42719	10.04	176238	12.28	137920	18.41
02	14593	29881	10.04	120146	12.30	96571	18.41
03	14586	31165	10.12	122720	12.33	90789	18.41
04	14594 (1:5)	32999	10.14	139499	12.35	101094	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	32952	10.11	141606	12.32	111471	18.43
	UPPER LIMIT	65904		283212		222942	
	LOWER LIMIT	16476		70803		55736	
	EPA SAMPLE NO.						
01	MB 3/12/92	34504	10.07	147815	12.31	114886	18.41
02	15103	32437	10.11	139243	12.32	111711	18.42
03	15105	32013	10.07	131602	12.31	107878	18.41
04	15110	29265	9.93	128011	12.25	103806	18.38
05	15114	26880	10.13	122441	12.34	97524	18.42

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	36114	10.17	164262	12.38	128452	18.46
	UPPER LIMIT	72228		328524		256904	
	LOWER LIMIT	18057		82131		64226	
	EPA SAMPLE NO.						
01	MB 3/13/92	40351	10.11	172677	12.35	139878	18.45
02	15107	36494	10.20	157170	12.38	129112	18.45
03	15100	34991	10.20	156476	12.38	129294	18.46
04	15070	33800	10.18	152040	12.39	125331	18.47

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	33409	10.20	151221	12.38	122525	18.46
	UPPER LIMIT	66818		302442		245050	
	LOWER LIMIT	16705		75611		61263	
	EPA SAMPLE NO.						
01	MB 3/13/92	37483	10.14	158847	12.35	129648	18.45
02	15108	33136	10.21	152065	12.39	126867	18.47
03	15106	33781	10.21	153125	12.39	128555	18.47
04	15071	34734	10.22	150114	12.40	128516	18.47
05	14595	35961	10.19	162006	12.37	134905	18.47
06	14596	36575	10.19	163152	12.37	133099	18.48
07	15072	37122	10.19	165261	12.40	136775	18.48
08	15073	38015	10.21	167802	12.39	137714	18.47
09	15117	37909	10.19	166511	12.40	134849	18.48
10	15074	38736	10.19	170702	12.40	137156	18.48
11	15111	40323	10.19	173079	12.40	138360	18.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	45202	10.14	192186	12.37	149521	18.45
	UPPER LIMIT	90404		384372		299042	
	LOWER LIMIT	22601		96093		74761	
	EPA SAMPLE NO.						
01	MB 3/14/92	43618	10.16	194542	12.36	158122	18.47
02	15104	40622	10.21	184605	12.39	152611	18.47
03	15068	40124	10.21	176527	12.40	148732	18.47
04	15115	39881	10.22	178100	12.40	148300	18.47
05	15101	39780	10.20	178764	12.40	146539	18.48
06	15066	39647	10.19	179288	12.40	147095	18.48
07	15112	42636	10.19	183434	12.40	151235	18.48
08	15065	43427	10.19	187790	12.39	153860	18.47
09	15065 MS	42104	10.20	185961	12.41	147784	18.49
10	15065 MSD	42335	10.20	185907	12.38	150088	18.46
11	15117 (1:5)	42537	10.20	182882	12.38	153573	18.46

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = -50% of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	55863	10.12	236328	12.35	187220	18.44
	UPPER LIMIT	111726		472656		374440	
	LOWER LIMIT	27932		118164		93610	
	EPA SAMPLE NO.						
01	MB 3/16/92	57281	10.17	257177	12.37	211085	18.45
02	15102	54076	10.19	238884	12.37	195794	18.45
03	15116	51045	10.18	226031	12.38	183033	18.46
04	15069	46185	10.20	206341	12.38	167439	18.46

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

TABLE 2.3
VOLATILE INTERNAL STANDARD AREA RECOVERIES

		IS1 (BCM) AREA	RT	IS2 (DFB) AREA	RT	IS3 (CBZ) AREA	RT
	12 HOUR STD	47333	10.14	209769	12.38	165807	18.46
	UPPER LIMIT	94666		419538		331614	
	LOWER LIMIT	23667		104885		82904	
	EPA SAMPLE NO.						
01	MB 3/17/92	48967	10.17	222195	12.37	178717	18.45
02	15064	45433	10.17	204584	12.37	163442	18.45
03	15118	43551	10.17	190002	12.38	155801	18.46
04	15118 MS	44898	10.20	201379	12.40	157920	18.48
05	15118 MSD	45169	10.20	196182	12.40	155293	18.48
06	15114 (1:5)	41406	10.19	181732	12.37	153537	18.45
07	15074 (1:2)	39316	10.19	178762	12.37	146417	18.45
08	15111 (1:5)	35892	10.19	171581	12.37	139883	18.45
09	15111 (1:5) MS	36704	10.22	179682	12.40	149398	18.48
10	15111 (1:5) MSD	46132	10.14	196679	12.38	158024	18.49

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = +100%
of internal standard area.
LOWER LIMIT = -50%
of internal standard area.

Table 2.4 Results of the MS/MSD Analysis for the Water Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14489

Parameter	Spike Added (ug/l)	Sample Conc. (ug/l)	MS Recov. (ug/l)	% Recovery	MSD Recov. (ug/l)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	48	96	51	102	6	14	61-145
Trichloroethene	50	ND	50	100	52	104	4	14	71-120
Benzene	50	ND	53	106	55	110	4	11	76-127
Toluene	50	ND	52	104	53	106	2	13	76-125
Chlorobenzene	50	ND	52	104	52	104	0	13	75-130

ND denotes Not Detected

Table 2.4 (Cont) Results of the MS/MSD Analysis for the Water Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14558

Parameter	Spike Added (ug/l)	Sample Conc. (ug/l)	MS Recov. (ug/l)	% Recovery	MSD Recov. (ug/l)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	50	100	50	100	0	14	61-145
Trichloroethene	50	ND	54	108	53	106	2	14	71-120
Benzene	50	ND	50	100	50	100	0	11	76-127
Toluene	50	ND	51	102	49	98	4	13	76-125
Chlorobenzene	50	ND	53	106	52	104	2	13	75-130

ND denotes Not Detected

Table 2.4 (Cont) Results of the MS/MSD Analysis for the Water Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 15111

Parameter	Spike Added (ug/l)	Sample Conc. (ug/l)	MS Recov. (ug/l)	% Recovery	MSD Recov. (ug/l)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	53	106	48	96	10	14	61-145
Trichloroethene	50	ND	48	96	50	100	4	14	71-120
Benzene	50	10	68	116	58	96	19 *	11	76-127
Toluene	50	ND	50	100	51	102	2	13	76-125
Chlorobenzene	50	69	120	102	130	122	18 *	13	75-130

ND denotes Not Detected
* denotes that this value exceeds the recommended QC range

Table 2.4 (Cont) Results of the MS/MSD Analysis for the Water Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 15065

Parameter	Spike Added (ug/l)	Sample Conc. (ug/l)	MS Recov. (ug/l)	% Recovery	MSD Recov. (ug/l)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	51	102	52	104	2	14	61-145
Trichloroethene	50	ND	51	102	52	104	2	14	71-120
Benzene	50	12	65	106	65	106	0	11	76-127
Toluene	50	ND	51	102	50	100	2	13	76-125
Chlorobenzene	50	16	68	104	68	104	0	13	75-130

ND denotes Not Detected

Table 2.4 (Cont) Results of the MS/MSD Analysis for the Water Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 15118

Parameter	Spike Added (ug/l)	Sample Conc. (ug/l)	MS Recov. (ug/l)	% Recovery	MSD Recov. (ug/l)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	51	102	51	102	0	14	61-145
Trichloroethene	50	ND	49	98	49	98	0	14	71-120
Benzene	50	ND	51	102	50	100	2	11	76-127
Toluene	50	ND	50	100	51	102	2	13	76-125
Chlorobenzene	50	ND	50	100	51	102	2	13	75-130

ND denotes Not Detected

Table 2.5 Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14462

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	48	96	49	98	2	22	59-172
Trichloroethene	50	ND	49	98	50	100	2	24	62-137
Benzene	50	ND	51	102	52	104	2	21	66-142
Toluene	50	ND	49	98	50	100	2	21	59-139
Chlorobenzene	50	ND	50	100	51	102	2	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14482

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	47	94	47	94	0	22	59-172
Trichloroethene	50	ND	49	98	49	98	0	24	62-137
Benzene	50	ND	50	100	48	96	4	21	66-142
Toluene	50	ND	51	102	51	102	0	21	59-139
Chlorobenzene	50	9.6	55	91	58	97	6	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14507

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	47	94	49	98	4	22	59-172
Trichloroethene	50	ND	50	100	49	98	2	24	62-137
Benzene	50	ND	49	98	49	98	0	21	66-142
Toluene	50	ND	51	102	50	100	2	21	59-139
Chlorobenzene	50	ND	50	100	49	98	2	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14514

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	49	98	49	98	0	22	59-172
Trichloroethene	50	ND	49	98	50	100	2	24	62-137
Benzene	50	ND	51	102	51	102	0	21	66-142
Toluene	50	ND	50	100	52	104	4	21	59-139
Chlorobenzene	50	ND	49	98	50	100	2	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14539

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	52	104	51	102	2	22	59-172
Trichloroethene	50	ND	51	102	52	104	2	24	62-137
Benzene	50	ND	50	100	51	102	2	21	66-142
Toluene	50	ND	50	100	49	98	2	21	59-139
Chlorobenzene	50	ND	51	102	50	100	2	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14554

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	48	96	51	102	6	22	59-172
Trichloroethene	50	ND	46	92	46	92	0	24	62-137
Benzene	50	ND	45	90	46	92	2	21	66-142
Toluene	50	ND	68	136	69	138	1	21	59-139
Chlorobenzene	50	ND	49	98	50	100	2	21	60-133

ND denotes Not Detected

Table 2.5 (Cont) Results of the MS/MSD Analysis for the Soil Samples

Project # 4598 Perth Amboy Well Field
Sample ID: 14572

Parameter	Spike Added (ug/kg)	Sample Conc. (ug/kg)	MS Recov. (ug/kg)	% Recovery	MSD Recov. (ug/kg)	% Recovery	RPD	QC Limits RPD	QC Limits Rec.
1,1-Dichloroethene	50	ND	47	94	46	92	2	22	59-172
Trichloroethene	50	ND	50	100	51	102	2	24	62-137
Benzene	50	ND	49	98	50	100	2	21	66-142
Toluene	50	ND	50	100	49	98	2	21	59-139
Chlorobenzene	50	26	65	78	77	102	27 *	21	60-133

ND denotes Not Detected

* denotes that this value exceeds the recommended QC range

QA/QC FOR METALS

EMSL WP 989-1, and WP 287 were used to check the accuracy of the calibration curve. The percent recoveries ranged from 92 to 116 and all recoveries were within the 95% confidence limits. The recoveries are listed in Table 2.6.

Samples 13705, A15104, A15111, and A15106 were chosen for matrix spike/matrix spike duplicate (MS/MSD) analyses. The percent recoveries, listed in Table 2.7, ranged from 72 to 115. The relative percent differences (RPDs), also listed in Table 2.7 ranged from 0 (zero) to 7.

The results of the blank spike analysis are reported in Table 2.8. The percent recoveries ranged from 77 to 126.

Table 2.6
Results of the EMSL for Perth Amboy Well Field Water Samples

METAL	EMSL #	CONC. RECOVERED ug/l	TRUE VALUE ug/l	95 % CONFIDENCE INTERVAL	% RECOVERY
Beryllium	WP 287	98	100	88.7-110	98
Cadmium	WP 287	25	25	21.2-27.7	100
Chromium	WP 287	53	50	40.9-58.5	106
Copper	WP 287	107	100	89.4-109	107
Lead	WP 989-1	58	50	40.3-60.5	116
Nickel	WP 287	106	100	88.0-113	106
Zinc	WP 287	99	100	89.0-111	99

Table 2.6 (Cont)
Results of the EMSL for Perth Amboy Well Field Water Samples

METAL	EMSL #	CONC. RECOVERED ug/l	TRUE VALUE ug/l	95 % CONFIDENCE INTERVAL	% RECOVERY
Beryllium	WP 287	106	100	88.7-110	106
	WP 287	104	100	88.7-110	104
Cadmium	WP 287	24	25	21.2-27.7	96
Chromium	WP 287	107	100	84.5-116	107
	WP 287	108	100	84.5-116	108
Copper	WP 287	101	100	89.4-109	101
Lead	WP 989-1	54	50	40.3-60.5	108
	WP 989-1	46	50	40.3-60.5	92
Nickel	WP 287	107	100	88.0-113	107
Zinc	WP 287	101	100	89.0-111	101
	WP 287	105	100	89.0-111	105

Table 2.7
Results of Matrix Spike/Matrix Spike Duplicate Analysis
WA# 4598 PERTH AMBOY WELL FIELD WATER SAMPLES

METAL	SAMPLE NO.	SAMPLE CONC. ug/l	ORIGINAL CONC. Spike ug/l	ORIGINAL CONC. Dup. ug/l	RECOVERED CONC. Spike ug/l	RECOVERED CONC. Dup. ug/l	% RECOVERY Spike	% RECOVERY Dup.	RPD
Beryllium	13705	0	20	20	20	21	100	105	5
Cadmium	13705	4	222	222	224	228	99	101	2
Chromium	13705	0	56	56	59	59	105	105	0
Copper	13705	18	222	222	240	241	100	100	0
Lead	13705	4	56	56	63	63	106	106	0
Nickel	13705	7	222	222	222	230	97	100	4
Zinc	13705	887	222	222	1109	1098	100	95	5

Table 2.7 (Cont)
Results of Matrix Spike/Matrix Spike Duplicate Analysis
WA# 4598 PERTH AMBOY WELL FIELD WATER SAMPLES

METAL	SAMPLE NO.	SAMPLE CONC. ug/l	ORIGINAL CONC. Spike ug/l	ORIGINAL CONC. Dup. ug/l	RECOVERED CONC. Spike ug/l	RECOVERED CONC. Dup. ug/l	% RECOVERY Spike	% RECOVERY Dup.	RPD
Beryllium	A 15104	2.3	20	20	18.5	19.0	81	84	3
	A 15111	1.3	20	20	18.8	19.0	88	89	1
	A 15106	0.0	20	20	17.5	17.5	88	88	0
Cadmium	A 15104	1	222	222	229	226	103	101	1
	A 15111	4	222	222	224	214	99	95	5
	A 15106	0	222	222	200	206	90	93	3
Chromium	A 15104	3.0	20	20	25.0	26.0	110	115	4
	A 15111	12.0	20	20	29.0	28.0	85	80	6
	A 15106	1.0	20	20	20.0	19.0	95	90	5
Copper	A 15104	2	222	222	231	220	103	98	5
	A 15111	7	222	222	232	236	101	103	2
	A 15106	2	222	222	216	217	96	97	0
Lead	A 15104	3	56	56	66	62	113	106	7
	A 15111	3	56	56	63	63	108	108	0
	A 15106	2	56	56	56	60	97	104	7
Nickel	A 15104	42	222	222	246	244	92	91	1
	A 15111	47	222	222	241	249	87	91	4
	A 15106	6	222	222	184	188	80	82	2
Zinc	A 15104	190	222	222	401	388	95	89	6
	A 15111	550	222	222	710	718	72	76	5
	A 15106	6	222	222	213	214	93	94	0

Table 2.8
Results of Spike Blank Analysis
WA# 4598 PERTH AMBOY WELL FIELD WATER SAMPLES

METAL	Spike Blank Concentration ug/l	Spike Blank Recovered Conc. ug/l	% Spike Recovery
Beryllium	20	19	95
Cadmium	222	224	101
Chromium	56	59	105
Copper	222	213	96
Lead	56	59	106
Nickel	222	209	94
Zinc	222	217	98

Table 2.8 (Cont)
Results of Spike Blank Analysis
WA# 4598 PERTH AMBOY WELL FIELD WATER SAMPLES

METAL	Spike Blank Concentration ug/l	Spike Blank Recovered Conc. ug/l	% Spike Recovery
Beryllium	20	20	100
	20	18	89
Cadmium	222	241	109
	222	194	87
Chromium	20	21	105
	20	18	90
Copper	222	243	109
	222	213	96
Lead	56	70	126
	56	56	100
Nickel	222	228	103
	222	171	77
Zinc	222	228	103
	222	207	93

Section III

Roy F. [illegible]eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE[illegible]RD/LAB WORK REQUEST

No: 5412

SHEET NO. 1 OF 1

Project Name: Perth Amb[illegible], Well Field
Project Number: 4545
RFW Contact: B[illegible] Phone: 612-42[illegible] Due Date:

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA's				
BCD 14545	DW-8S	W	3/12/92	4 oz glass/4°C	X				
BCD 14546	DW-8D								
BCD 15071	Bailer Rinsate (DW-13S)								
BCD 15072	DW-13S								
BCD 15073	DW-13D								
BCD 15106	Bailer Rinsate								
ABC 15107	TRIP BLANK								
BCD 15108	DI water								
BCD 15117	DW-10D								
BCD 15118	DW-10S								
BCD 15074	EPA-5								

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Anal. [illegible]	[illegible]		3/12/92	1200					
All/Anal. VOA Metals		John Johnson	3/12/92	2:45					
All/Anal. VOA's	John Johnson	[illegible]	3/12/92	3:[illegible]					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE 'RD/LAB WORK REQUEST

No: 5421

SHEET NO. 1 OF 3

Project Name: [illegible] FIELD
Project Number: [illegible]
RFW Contact: [illegible] Phone: [illegible] Due Date:

SAMPLE IDENTFICATION — ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA	[illegible]			
A 15100	SUPPLY WELL #5	W	3/11/92	1L Poly/HNO3 4°C		✓			
B,C,D 15100	" " "			4oz glass/4°C	✓				
A 15101	SUPPLY WELL #6			1L Poly/HNO3 4°C	✓	✓			
B,C,D 15101	" " "			4oz glass/4°C	✓				
A 15102	SUPPLY WELL #7			1L Poly/HNO3 4°C		✓			
B,C,D 15102	" " "			4oz glass/4°C	✓				
A,B,C 15103	TRIP BLANK			4oz glass/4°C	✓				
A 15104	SUPPLY WELL #8			1L Poly/HNO3 4°C		✓			
B,C,D 15104	" " "			4oz glass/4°C	✓				
A 15105	FINISHED WATER			1L Poly/HNO3 4°C		✓			
B,C,D 15105	" "			4oz glass/4°C	✓				
A 15110	EPA-3			1L Poly HNO3 4°C		✓			
B,C,D 15110	EPA-3			4oz glass/4°C	✓				
A 15111	EPA-1			1L Poly/HNO3 4°C		✓			
B,C,D 15111	EPA-1			4oz glass/4°C	✓				
A 15112	DW-14			1L Poly/HNO3 4°C		✓			
B,C,D 15112	DW-14			4oz glass/4°C	✓				
A 15113	EPA-1 MS/MSD			1L Poly/HNO3 4°C		✓			
B,C,D 15113	EPA-1 MS/MSD			4oz glass/4°C	✓				
A 15114	EPA-10	↓	↓	1L Poly/HNO3 4°C		✓			

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Analysis	[illegible]	[illegible]	3/11/92	3:55					
All/analysis over	[illegible]	[illegible]	3/11/92	4:00					
All/analysis over	[illegible]	[illegible]	3/12/92						

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE RD/LAB WORK REQUEST

No: 5422

SHEET NO. 2 OF 2

Project Name: [illegible] AMBOY WATER FIELD
Project Number: 3347-[illegible]-01-4598
RFW Contact: [illegible] Phone: 632-[illegible] Due Date:

✓ nm

SAMPLE IDENTFICATION / **ANALYSES REQUESTED**

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA	[illegible]			
✓ B,C,D 15114	EPA-10	W	3-11-92	40 ml glass/4°C	✓				
✓ A 15064	EPA-4			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15064	EPA-4			40 ml glass, 4°C	✓				
✓ A 15065	EPA-2			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15065	EPA-2			40 ml glass, 4°C	✓				
✓ A 15066	EPA-20			1L POLY, HNO3 4°C		✓			
✓ B,C,D 15066	EPA-20			40 ml glass/4°C	✓				
✓ A 15067	EPA-2 MS/MSD			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15067	EPA-2 MS/MSD			40 ml glass, 4°C	✓				
✓ A 15068	DW-12			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15068	DW-12			40 ml glass, 4°C	✓				
✓ A 15115	DW-9S			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15115	DW-9S			40 ml glass/4°C	✓				
✓ A 15116	DW-9D			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15116	DW-9D			40 ml glass/4°C	✓				
✓ A 15070	DW-11S			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15070	DW-11S			40 ml glass/4°C	✓				
✓ A 15069	DW-11D			1L POLY/ HNO3 4°C		✓			
✓ B,C,D 15069	DW-11D			40 ml glass/4°C	✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All [illegible] SSC	[illegible]	[illegible]	3/11/92	3:55					
ALL/[illegible]	[illegible]	[illegible]	3/11/92	4:00					
ALL/[illegible]	[illegible]	[illegible]	[illegible]						

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE ORD/LAB WORK REQUEST

No: 5423

SHEET NO. 1 OF 1

Project Name: Perth Amboy Well Field
Project Number: 4545
RFW Contact: Bussey Phone: 632-4200 Due Date:

SAMPLE IDENTFICATION

ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	Co, Cu, Pb, Cd, Zn, Ni, Zn
A 14545	DW-5D	W	3/12/92	1L poly / HNO3 #2	X
A 14546	DW-5D				
A 15071	Bailer Rinsate (DW-13S)				
A 15072	DW-13S				
A 15073	DW-13D				
A 15106	Bailer Rinsate				
A 15108	DI Water				
A 15117	DW-10D				
A 15118	DW-10S				
A 15074	EPA-5				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Analyses	[signature]	John Johnson	3/12/92 3/12/92	1200 3:00					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE RD/LAB WORK REQUEST

No: 5432

SHEET NO. ____ OF ____

Project Name: PERTH AMBOY
Project Number: 3347-31-01-4598
RFW Contact: BUSSEY Phone: 632-9200 Due Date: ____

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14485	BENTONITE	X	2/24/92	4oz / 4°C	✓				
A14486	TRIP BLANK	W		40ml / 4°C	✓				
ABC14487	DRILLING MUD	Z		3x40ml / 4°C	✓				
ABC14489	DRILL RIG TANK	W		3x40ml / 4°C	✓				
A14488	EPA 3D 5-7	S		4oz / 4°C	✓				
A14491	EPA 3D 15-17	S			✓				
A14492	EPA 3D 20-21.5	S			✓				
A14490	EPA 3D 10-12	S			✓				
A14493	EPA 3D 25-26.5	S			✓				

Matrix: Z- DRILLING MUD
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other BENTONITE

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/ANALYSIS	[signature]	[signature]	2/24/92	6PM					
ALL/ANALYSIS	[signature]	[signature]	2/25/92	900AM					
ALL/ANALYSIS	[signature]	[signature]	2/25/92	9:48AM					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE 'RD/LAB WORK REQUEST

No: 5433

SHEET NO. 1 OF 1

Project Name: [illegible]
Project Number: 3347-31-[illegible] 4598
RFW Contact: [illegible] Phone: 632-4200 Due Date:

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	[illegible]				
A14500	[illegible]	W	2/25/92	[illegible] / 4°C	✓				
A,B,C14501	Rinsate [illegible]	W		[illegible] / 4°C	✓				
A14495	EPA 3D 29-30.5	S		[illegible] / 4°C					
A14498	EPA 3D 35-36								
A14503	EPA 3D 41-42								
A14506	EPA 3D 50-51.5								
A14507	EPA 3D 55-56								
A14509	EPA 3D 65-66.5								
A14511	EPA 3D 75-76.5								
A14513	EPA 3D 75-76.5 DUP								
A14505	EPA 3D 15-15.8								

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]	2/[illegible]	8:50 AM					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE RD/LAB WORK REQUEST

No: 5434

SHEET NO. 1 OF 1

Project Name: Perth Amboy
Project Number: 3547-31-C1-4578
RFW Contact: Bussey Phone: Due Date:

SAMPLE IDENTFICATION **ANALYSES REQUESTED**

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A,SC14573	PICK UP TANK	W	2/26/92	3x40ml / 4°C	✓				
A14574	EPA3D 100-102	S		4oz / 4°C	✓				
A14578	TRIP BLANK	W		40ml / 4°C	✓				
A14515	EPA2D 5-7	S		4oz / 4°C	✓				
A14516	EPA2D 11-12	S			✓				
A14517	EPA2D 16-17	S			✓				

checked J

J checked

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/ANALYSIS	[signature]	[signature]	2-26-92	600 1800					
ALL/ANALYSIS	[signature]	[signature]	2-27-92	8:40AM					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE 'RD/LAB WORK REQUEST

No: 5435

SHEET NO. 1 OF 1

Project Name: [illegible]
Project Number: 2347-31-01-4578
RFW Contact: [illegible] Phone: 632-9200 Due Date:

SAMPLE IDENTFICATION

ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14519	TRIP BLANK	W	2/27/92	40ml / 4°C	✓				
ABC14523	RINSATE	W		3x40ml / 4°C	✓				
A14521	EPA2D 25-27	S		4oz / 4°C	✓				
A14522	EPA2D25-27DUP	S			✓				
A14527	EPA2D 33-34.5				✓				
A14530	EPA2D 39-41				✓				
A14533	EPA2D 45-46				✓				
A14535	EPA2D 55-56				✓				
A14537	EPA2D 65-67				✓				
A14538	EPA2D 70-71				✓				
A14539	EPA2D 75-76				✓				
A14541	EPA2D 80-81.5				✓				

Matrix:
S- Soil
W- Water
O- Oil
DS- Drum Solids
DL- Drum Liquids
X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Analysis	[signature]	[signature]	2-28-92	900AM					
All/Analysis	[signature]	[signature]	2-28-92	9:00					

Roy F[illegible] [illegible]eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE[illegible]RD/LAB WORK REQUEST

No: 5436

SHEET NO. 1 OF 1

Project Name: FERSTA A-134
Project Number: 3347-31-01-4578
RFW Contact: BUSSEY Phone: 632-5200 Due Date:

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOC				
A14542	TRIP BLANK	W	3/2/92	40 ml / 4°C	✓				
A14546	RINSATE	↓	↓	5x40 ml / 4°C	✓				
A14543	EPA ID 5-7	S	↓	4oz / 4°C	✓				
A14545	EPA ID 15-17	↓	↓	↓	✓				
A14547	EPA ID 20-22				✓				
A14548	EPA ID 25-26.5				✓				
A14549	EPA ID 25-26.5 DUP				✓				
A14551	EPA ID 32-33.5				✓				
A14552	EPA ID 34-35				✓				
A14553	EPA ID 40-42				✓				
A14554	EPA ID 42-44				✓				
A14556	EPA ID 46-48	↓	↓	↓	✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/[illegible]	[illegible]	[illegible]	3-2-92	1815					
ALL/ANALYSIS	[illegible]	[illegible]	3-4-92	9AM					

Roy F. [illegible]ston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE[illegible] RD/LAB WORK REQUEST

No: 5437

SHEET NO. 1 OF 1

Project Name: [illegible]
Project Number: 3347-31-01-4578
RFW Contact: [illegible] Phone: 632-[illegible] Due Date:

SAMPLE IDENTFICATION

ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14557	TRIP BLANK	W	3/3/92	40ml / 4°C	✓				
A,B,C 14558	DRILLING TANK	W		3x40ml / 4°C	✓				
A,B,C 14562	RINSATE	W		3x40ml / 4°C	✓				
A14559	EPA 5-7	S		4oz / 4°C	✓				
A14561	EPA 15-17				✓				
A14564	EPA 5 25-27				✓				
A14565	EPA 5 25-27 DUP				✓				
A14568	EPA 5 35-37				✓				
A14569	EPA 5 45-46				✓				
A14571	EPA 5 52-53.5				✓				
A14572	EPA 5 54-55.5				✓				
A14573	EPA 5 56-57.5				✓				
A14575	EPA 5 60-61				✓				

Matrix:
S- Soil
W- Water
O- Oil
DS- Drum Solids
DL- Drum Liquids
X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Analysis	[illegible]	[illegible]	3-3-92	[illegible]					
ALL/ANALYSIS	[illegible]	[illegible]	3-4-92	9 AM					

Roy F. Weston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

No: 5438

Project Name: PERTH AMBOY
Project Number: 3347-31-01-4598
RFW Contact: BUSSEY Phone: 632-9200 Due Date:

SHEET NO. 1 OF 1

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14576	FRIP BLANK	W	3/4/92	40ml / 4°C	✓				
A14577	EPA5 62-62.7	S	↓	8oz / 4°C	✓				
A,B,C14578	TRIPLICATE RINSATE	W	↓	3x40ml / 4°C	✓				
A14579	EPA5 64-65	S	↓	4oz / 4°C	✓				
A14580	EPA5 70-71	↓	↓	↓	✓				
A14581	EPA5 75-76	↓	↓	↓	✓				
A14582	EPA5 80-82	↓	↓	↓	✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/ANALYSIS	[illegible]	[illegible]	3/11/92	12:10					
ALL/ANALYSIS	[illegible]	[illegible]	3/12	8:15am					

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE RD/LAB WORK REQUEST

No: 5439

SHEET NO. 1 OF 1

Project Name: PERTH AMBOY
Project Number: 3347-31-01-4598
RFW Contact: BUSSEY Phone: 632-7200 Due Date:

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14585	TRIP BLANK	W	3/5/92	40ml/4°C	✓				
A,B,C14587	RINSATE	W		3x40ml/4°C	✓				
A14583	EPA 1D 48-50	S		4oz/4°C	✓				
A14584	EPA 1D 50-52				✓				
A14586	EPA 1D 52-54				✓				
A14588	EPA 1D 54-55.5				✓				
A14589	EPA 1D 60-61				✓				
A14590	EPA 1D 65-67				✓				
A14592	EPA 1D 70-71				✓				
A14593	EPA 1D 75-77				✓				
A14594	EPA 1D 80-82				✓				
A14591	EPA 1D 65-67 DUP				✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/ALL	[illegible]	[illegible]	3-5-92	1530					
ALL/ANALYSIS	[illegible]	[illegible]	3-6-92	8:15AM					

Roy F. [illegible]eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE[illegible]RD/LAB WORK REQUEST

No: 5451

SHEET NO. 1 OF 1

Project Name: PERTH AMBOY
Project Number: 3347-31-01-4598
RFW Contact: BUSSEY Phone: 632-9200 Due Date:

SAMPLE IDENTFICATION / ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A,B,C 14455	POTABLE WATER SUPP.	W	2/19/92	40ml / 4°C	✓				
A,B,C 14464	~~EPA 4D~~ DRILLING MUD	X		40ml / 4°C	✓				
A 14456	EPA 4D 5-7'	S		4oz / 4°C	✓				
A,B,C 14465	~~EPA 4D~~ (RINSATE)	W		40ml / 4°C	✓				
A 14461	EPA 4D 26.5-28	S		4oz / 4°C	✓				
A 14462	EPA 4D 28-29.5	S			✓				
A 14463	EPA 4D 28-29.5 DUP	S			✓				
A 14468	EPA 4D 34-35.3	S			✓				
A 14470	EPA 4D 38-39.3	S			✓				
A 14458	EPA 4D 15-17	S			✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil (X) Other DRILLING MUD

Special Instructions:

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
All/Analysis	[signature]	[signature]	2-19-92	1800					
ALL/ANALYSIS	[signature]	[signature]	2-19-92						

Roy F. 'eston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RE 'RD/LAB WORK REQUEST

No: 5452

Project Name: PERTH AMBOY
Project Number: 3347-31-01-4598
RFW Contact: DON BOSSEY Phone 632-9200 Due Date:

SHEET NO. ____ OF ____

SAMPLE IDENTFICATION

ANALYSES REQUESTED

Sample No.	Sampling Location	Matrix	Date Collected	Container/Preservative	VOA				
A14471	EPA4D 42-43.4'	S	2/20/92	4oz / 4°C	✓				
A14473	EPA4D 46-47.5'	S	↓	↓	✓				
A14475	EPA4D 50-52'	S		↓	✓				
A14479	RINSATE BLANK	W		3x40ml / 4°C	✓				
A14480	TRIP BLANK	W		40ml / 4°C	✓				
A14477	EPA4D 60-60.9'	S		4oz / 4°C	✓				
A14481	EPA4D 70-71.5'	S		↓	✓				
A14483-ABC	DRILLING MUD	W		3x40ml / 4°C	✓				
A14482	EPA4D 75-77'	S		4oz / 4°C	✓				
A14484	EPA4D 80-82'	S	↓	4oz / 4°C	✓				

Matrix:
S- Soil DS- Drum Solids
W- Water DL- Drum Liquids
O- Oil X- Other

Special Instructions:

CHECKED BY [illegible]

Items/Reason	Relinquished By	Received By	Date	Time	Items/Reason	Relinquished By	Received By	Date	Time
ALL/ANALYSIS	[illegible]	[illegible]	2/20/92	1435					
ALL/ANALYSIS	[illegible]	[illegible]	2/20/92	1535					
			2/20/92	[illegible]					

Roy F. Weston, Inc.
REAC, Edison, N.J.
EPA Contract 68-03-3482

CHAIN OF CUSTODY RECORD/LAB WORK REQUEST

No: 55

SHEET NO. 1 OF 1

Project Name: Perth Amboy wellfield
Project Number: 3547 - 31 01 3542 MD 1518
RFW Contact: _____ Phone: _____

SAMPLE IDENTIFICATION / **ANALYSES REQUESTED**

REAC #	Sample No.	Sampling Location	Matrix	Date Collected	# of Bottles	Container/ Preservative	VOA	PP Metals		
022592-576	13706	Raritan Depot fire ~~hydr~~	W	2-25-92	3	4°C / 40 ml VOA	✓			
022592-577	~~13708~~ 13705	Raritan depot - Hydrant	W	2-25-92	1			✓		

End of Samples

Matrix:
SD - Sediment
DS - Drum Solids
DL - Drum Liquids
X - Other
PW - Potable Water
GW - Groundwater
SW - Surface Water
SL - Sludge
S - Soil
W - Water
O - Oil
A - Air

Special Instructions:

checked by: B. Holdeman

FOR SUBCONTRACTING USE ONLY
FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished By	Date	Received By	Date	Time	Items/Reason	Relinquished By	Date	Received By	Date	Time
Analysis	Matthew Donohue	2-25	[signature]								
			[signature]	2-25-92	1545						
VOA ~~HCL~~/ANALYSIS	[signature]	2-25-92	[signature]	2-25-92	1545						
PP METALS	[signature]	2-25-92	[signature]	2-26-92	1:47						

Section IV

Perth Amboy Well Field { H2O / Soil } vot

4/14/92

E57

Yuum Yang

DATA ASSESSMENT:

1. HOLDING TIME: All met

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

DATA ASSESSMENT:

2. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip field, rinse and water blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for the common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the samples shown were qualified with "U" for these reasons:

A) Method blank contamination 1,1,1-trichloroethane for sample 14513, 14490, 14493,

B) Field or rinse blank contamination ("water blanks" or "distilled water blanks" are validated like any other sample)

C) Trip blank contamination

DATA ASSESSMENT:

3. MASS SPECTROMETER TUNING: Cell inlet

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is bromofluorobenzene (BFB) and for semi-volatiles is decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable, "R".

DATA ASSESSMENT:

4. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks documents that the instrument is giving satisfactory daily performance.

A) RESPONSE FACTOR: all ≥ 0.05

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be $\geq$ 0.05 in both the initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected ("R").

DATA ASSESSMENT:

5. CALIBRATION:

A) PERCENT RELATIVE STANDARD DEVIATION (%RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ" (if %D or RSD >50%). If there is a gross deviation of %RSD and %D, the non-detects may be rejected ("R").

For the PCB/Pesticide fraction, %RSD for aldrin, endrin, DDT, and dibutylchlorendate must not exceed 10%. Percent D must be within 15% on the quantitation column and 20% on the confirmation column.

H2O UJ - 2,2-dichloropropane for 14500, 14489, 13706, 14051, 14519, 14523, 14585, 14587, 15103, 15105, 15116, 15114, [illegible] 15068, 15115, 15101, 15066, 15112, 15065, 15102, 15116, 15[illegible]

~~2,2~~ and Chloroethane for 15107, 15100, 15070

MIBK and 2-Hexanone for 15708, 15706, 15071, 14595, 14596, 15072, 15073, 15117, 15074, 15111.

Soil UJ - 2,2-dichloropropane for 14521, 14527, 14530, 14532, [illegible] 14537, 14538, 14539, 14541, 14543, 14545, 14548, 14549, ~~[illegible]~~ 14551 through 14556, 14557, 14559, 14561, 14564, 14565, [illegible] 14569, 14571, 14572, 14573, 14575, 14577, 14579, 14580 through [illegible] 14585, 14589, 14590 through 14594, 14586

J - Acetone for 14581, 14582, 14593

DATA ASSESSMENT:

6. SURROGATES:

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

Air : 15114 - surrogate recovery exceeded QC limits, all positive identifications were flagged as estimated, "J".

15074, and 15111 - chlorobenzene result was reported from the dilution analyses and were flagged as estimated (J) due to surrogate recovery exceeded the QC limit.

Soil : 14556, 14561; ~~14594~~ ... all positive identifications (if any) will be flagged as estimated (J) due to surrogate exceeded ~~[illegible]~~ the QC limit.

14594 - All ~~but~~ ~~[illegible]~~ positive identification (except chlorobenzene) were qualified as estimated due to surrogate exceeded the QC limit.

DATA ASSESSMENT:

7. INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not very by more than a factor of 2 (-50 to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will us professional judgment to determine either partial or total rejection of the data for that sample fraction.

Hx: All Istd areas are within the QC limits.

Soil: Samples affected: 14468, 14517, 14554, 14556, 14561, 14581, 14582, 14583, 14584, 14[illegible]4

DATA ASSESSMENT:

8. COMPOUND IDENTIFICATION:

A) VOLATILE AND SEMI-VOLATILE FRACTIONS: All met

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained form known standards. For the results to be a positive hit, the sample peak must be within + 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

B) PESTICIDE FRACTION:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10 ng/ml in the final sample extract.

DATA ASSESSMENT:

9. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for some additional qualification of the data.

%RPD requirement were not met for 14572 MS/MSD and 15111 MS/MSD. No action is necessary.

DATA ASSESSMENT:

10. OTHER QC DATA OUT OF SPECIFICATION:

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT (continued on next page if necessary):
Samples 14462 and 14463 are the duplicate samples. Trace of Chlorobenzene was found in sample 14463 but not 14462. This might be due to the non-homogeneous nature of the samples.
(continued on the next page)

12. CONTRACT PROBLEMS____NON-COMPLIANCE:

13. This package contains re-extraction, re-analysis or dilution. Upon reviewing the QA results, the following form I (s) are identified to be used.

DATA ASSESSMENT:

11. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT (continued):

Contamination - Caused in sampling procedure [illegible] in the lab. Since field blank was not collected and the info regarding positions of these samples were analyzed at ~~[illegible]~~ [illegible] not available, further assessment could not be done.

14511 and 14512: duplicate samples. Methylene chloride and acetone found in 14511 were not found in ~~the~~ [illegible] 14512.

14521 and 14522: duplicate samples. Chlorobenzene and [illegible] were ~~not~~ [illegible] found in sample 14522 but not [illegible]. The acetone conc reported for sample 14522 [illegible] about 4x higher than 14521.

14564 and 14565: duplicate samples. Methylene chloride was found in 14565 but not 14564.

Due to the uncertainty of the cause of the ~~discrepancy~~ non-duplicate results reported for the above mentioned samples, the positive identifications reported will be qualified as estimated. J.

Region I

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.

SITE

LABORATORY

NO. OF SAMPLES
MATRIX
REVIEWER (IF NOT ESD)
REVIEWER'S NAME
COMPLETION DATE

SDG
SOW
DPO:ACTION_____FYI_____

DATA ASSESSMENT SUMMARY

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES]				
2. GC/MS TUNE/INSTR. PERFORM				
3. CALIBRATIONS				
4. BLANKS				
5. SURROGATES				
6. MATRIX SPIKE/DUP				
7. OTHER QC				
8. INTERNAL STANDARDS				
9. COMPOUND IDENTIFICATION				
10. SYSTEM PERFORMANCE				
11. OVERALL ASSESSMENT				

0=Data had no problems/or qualified due to minor problems
M=Data qualified due to major problems
Z=Data unacceptable
X=Problems, but do not affect data

ACTION ITEMS:

AREAS OF CONCERN: