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SEMIANNUAL MONITORING REPORT

OPERABLE UNIT NO. 12 - SITE 3
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

REPORTING PERIOD JANUARY 1998 - JUNE 1998

CONTRACT TASK ORDER 0367

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PREFACE

The semiannual monitoring reports that are presented herein describe the procedures, analytical findings, and subsequent recommendations of the monitoring program at Operable Unit (OU) No. 12 (Site 3), Marine Corps Base (MCB) Camp Lejeune, North Carolina. Figure P-1 depicts the location of OU No. 12. The monitoring reports have been prepared by Baker Environmental, Inc. and submitted to the United States Environmental Protection Agency - Region IV; the North Carolina Department of Environment and Natural Resources; the Environmental Management Department of MCB Camp Lejeune; and the Naval Facilities Engineering Command, Atlantic Division.

The monitoring program at OU No. 12 was implemented in response to the Record of Decision (ROD) document signed by MCB Camp Lejeune on April 3, 1997. The ROD for OU No. 12 stipulates that documentation in support of the selected remedy, groundwater monitoring coupled with institutional controls, be maintained for periodic regulatory review.

The principal objective of the monitoring program at OU No. 12 is to monitor the potential for human or ecological exposure due to off-site migration of contaminants. The semiannual monitoring reports document the findings and provide interested parties with information required to authorize future decisions regarding OU No. 12. The information presented in the reports will be used to either extend, modify, or discontinue the monitoring program as necessary.

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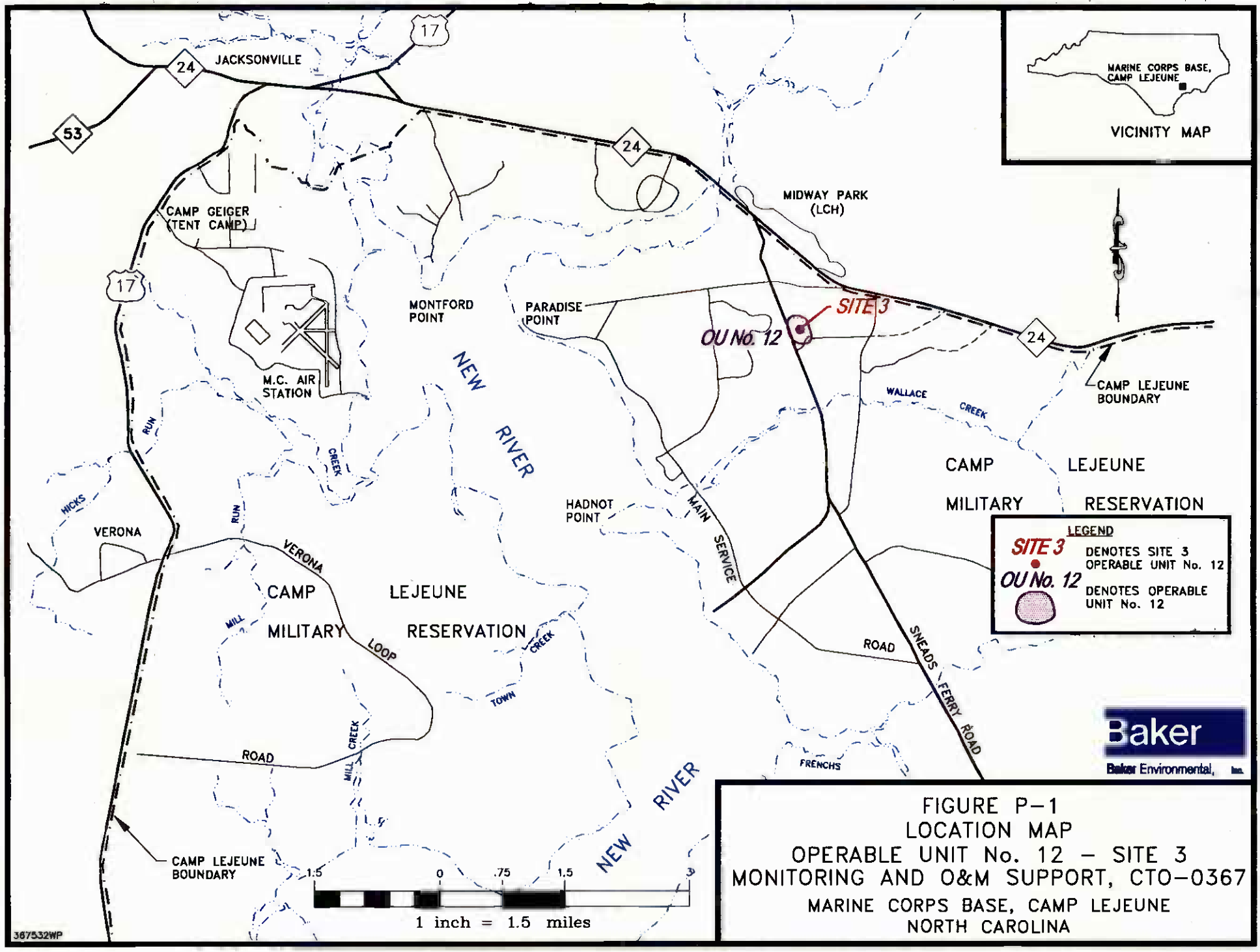

FIGURE P-1
LOCATION MAP
OPERABLE UNIT No. 12 – SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

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SEMIANNUAL MONITORING REPORT

The semiannual monitoring report which follows presents a summary of sampling activities, field observations, analytical results, and significant findings which pertain to the monitoring program at Operable Unit (OU) No. 12 (Site 3), Marine Corps Base (MCB) Camp Lejeune, North Carolina. Conclusions and recommendations regarding the monitoring program are also presented within this report.

Monitoring activities at OU No. 12 began in 1997 and have continued on a semiannual basis. The most recent sampling initiative commenced January 19, 1998 and concluded January 21, 1998. Groundwater samples at Site 3 were obtained from six shallow monitoring wells, one intermediate monitoring well, and one deep monitoring well. A seventh shallow monitoring well, 03-MW08, was not accessible at the time of sample collection. Figure 1 depicts the locations of all monitoring wells throughout Site 3 and identifies the wells included in the monitoring program. [Note that all tables and figures are provided after the text portion of this report.]

Sampling activities were conducted and subsequent laboratory analyses were performed according to procedures and methods specified in the Long-Term Monitoring Work Plans for OU No. 12 (Baker, 1996). The project work plans identify a select number of monitoring wells at Site 3 for which continued periodic sampling is required. Table 1 provides construction details of monitoring wells included in the monitoring program. As stipulated in the project work plans, measurements of pH, specific conductance, dissolved oxygen, temperature, and turbidity were recorded prior to sampling. A summary of groundwater field parameters from Site 3 is provided in Table 2.

The monitoring program at Site 3 was implemented to assess whether contamination, detected during previous investigations, remains present, has migrated, or has degraded through natural processes. Based upon previous analytical results and decision documents, Target Compound List (TCL) volatile and semivolatile organic compounds were identified as contaminants of concern at Site 3. Table 3 provides a summary of requested laboratory analyses and sample identifications.

Sample information, including well number, sample identification, time and date of sample collection, samplers, analytical parameters, and required laboratory turnaround time was recorded in a field logbook and on sample labels. Chain-of-custody documentation, provided in Attachment A, accompanied the samples to the laboratory.

Groundwater Elevation and Flow Direction

Water level measurements were obtained at Site 3 on January 20, 1998. Table 4 provides a summary of water level measurements and Figure 2 depicts the static elevations and approximate flow direction of groundwater at Site 3. Groundwater flow within the surficial aquifer at Site 3 is influenced by the drainage ditches that border the adjacent railroad grade and, to a lesser extent, Holcomb Boulevard which lies further to the west. In general, shallow groundwater flows from east to west at Site 3, from the topographically higher portion of the study area toward nearby drainage features.

Field Observations

The following field observations were noted during the most recent semiannual sampling event at Site 3. Recommendations regarding the field observations which follow are presented in a latter portion of this report.

The northern portion of Site 3 is currently being utilized as a staging area for hurricane debris. As a result, monitoring wells 03-MW03 and 03-MW08 are buried beneath large piles of trees and other wooden debris. The condition and usability of both monitoring wells is unknown. Two other monitoring wells that were installed at Site 3 prior to the 1994 Remedial Investigation have begun to show signs of deterioration. Paint on the protective bollards and casings of wells 03-MW01 and 03-MW02 has begun to peel and rust is present. In addition, two protective bollards of monitoring well 03-MW05 are damaged, presumably from vehicle impact. A number of locks used to secure the protective casings of monitoring wells at Site 3 either do not function or function poorly.

ANALYTICAL RESULTS AND FINDINGS

The section which follows presents analytical results and findings from sampling performed at Site 3 during the first calendar quarter of 1998. A summary of all analytical results compiled during the sampling event is presented in Attachment B and corresponding laboratory data sheets are provided in Attachment C.

A single trip blank was prepared prior to the sampling event and kept with the volatile samples from Site 3 during field collection, shipment, and laboratory analysis. As provided in Table 5, methylene chloride was detected in the trip blank sample at an estimated concentration of 2.2 micrograms per liter (µg/L). Methylene chloride, a common laboratory contaminant, was also detected among method blank samples. Methylene chloride among groundwater samples obtained from Site 3 was therefore considered a laboratory artifact and not a site contaminant.

Volatile Organics

Three volatile organic compounds (VOCs) were detected in two of the seven groundwater samples obtained at Site 3. A summary of groundwater analytical results is provided in Table 6. A positive detection summary of groundwater results is provided in Table 7. As depicted in Figure 3, ethylbenzene, toluene, and xylenes (total) were detected in samples obtained from shallow monitoring wells 03-MW02 and 03-MW06. Monitoring well 03-MW02 is located within the central portion of the former treatment area, adjacent to the concrete drip pad. Monitoring well 03-MW06 is located approximately 500 feet south of 03-MW02. Concentrations of ethylbenzene, toluene, and xylenes were detected in the sample obtained from 03-MW02 at concentrations of 14, 13, and 39 µg/L, respectively. The same compounds were detected at lower concentrations in the sample obtained from 03-MW06. None of the volatile compounds were detected at concentrations in excess of applicable water quality standards. No other VOCs were detected among the seven groundwater samples obtained from Site 3.

Positive VOC detections among groundwater samples obtained at Site 3 have been documented in the past. Previous sampling results from shallow monitoring well 03-MW02 have exhibited ethylbenzene, toluene, and xylenes at concentrations similar to those presented here. The same VOCs have not been detected in samples obtained from 03-MW06 prior to the most recent sampling event; suggesting that VOCs may be in the process of migrating from the former treatment area.

Table 8 provides a summary of organic results from groundwater samples obtained during the three most recent sampling events. Future sampling will be employed to determine the nature, persistence, and possible migration of observed VOCs at Site 3.

During previous investigations 1,1-dichloroethene, trichloroethene, benzene, toluene, and xylenes (total) have been detected at concentrations of less than 11 µg/L in samples obtained from intermediate well 03-MW02IW. No VOCs have been detected in any of the more recent samples obtained from 03-MW02IW, collected during the remedial alternative sampling. The lack of VOCs in recent samples obtained from 03-MW02IW may be the result of contaminant degradation or migration. The lack of positive VOC detections in other samples obtained from the deeper portion of the surficial aquifer at Site 3 suggests that the observed contaminants are limited to the area surrounding monitoring well 03-MW02.

Semivolatile Organics

Bis(2-ethylhexyl)phthalate (BEHP), a semivolatile organic compound (SVOC) and a common laboratory contaminant, was detected in the sample obtained from monitoring well 03-MW07 at a concentration of 2.2 µg/L. The North Carolina Water Quality Standard (NCWQS) for BEHP is 3.0 µg/L. Excluding BEHP, no other SVOCs were detected among samples obtained from monitoring wells 03-MW02DW, 03-MW07, 03-MW11, 03-MW11IW, and 03-MW13.

A total of 18 other SVOCs were detected among groundwater samples obtained from monitoring wells 03-MW02, 03-MW06, and 03-MW02IW. As provided in Table 7, seven of the SVOCs were limited to the groundwater sample obtained from shallow monitoring well 03-MW02. The maximum SVOC concentration was 2,800 µg/L of naphthalene, detected in the sample obtained from 03-MW02. Acenapthene, naphthalene, and phenol concentrations in the sample obtained from 03-MW02 exceeded the applicable North Carolina standards of 80, 21, and 300, respectively. As depicted in Figure 4, acenapthene, naphthalene, and phenol were detected at concentrations of 390, 2,800, and 430 µg/L. The only other SVOC detected at a concentration that exceeded an NCWQS was napthalene. The sample obtained from 03-MW06 had a naphthalene concentration of 1,100 µg/L.

Concentrations of SVOCs among groundwater samples obtained from 03-MW02 and 03-MW06 differ from previous investigation results. As presented in Table 8, concentrations of naphthalene in samples obtained from 03-MW02 and 03-MW03 have increased. Naphthalene has been detected in previous samples collected from 03-MW02 at concentrations ranging from 1,500 to 1,900 µg/L; the most recent sample had a naphthalene concentration of 2,800 µg/L. Concentrations of all SVOCs in 03-MW06 have also increased, particularly that of naphthalene. Prior to the January 1998 monitoring event, naphthalene had been detected among samples obtained from 03-MW06 at a maximum concentration of 30 µg/L. The most recent sample obtained from 03-MW06 had a naphthalene concentration of 1,100 µg/L. The marked increase of both VOC and SVOC concentrations in the sample obtained from 03-MW06 suggests that SVOCs may have begun to migrate away from the former treatment area. Future monitoring results will be used to determine whether SVOCs have indeed begun to migrate at Site 3.

RECOMMENDATIONS

The Record of Decision (ROD) for OU No. 12 stipulates that environmental samples from Site 3 be collected periodically to monitor the possible migration of potential site contaminants (Baker, 1997). The sections which follow describe recommendations in support of the selected remedy, periodic monitoring, that are being proposed for future consideration. The intent of this report is to provide a brief listing of implemented actions and a thorough description of any proposed recommendations.

Maintain Well Security and Aesthetics

A number of the monitoring wells at Site 3 have begun to show signs of deterioration. The bollards and protective casings of the wells have developed paint and rust. In addition, a number of padlocks used to secure the protective covers are either missing or no longer function properly. The usability and security of each monitoring well should be maintained if they are going to remain reliable groundwater sample collection points in the future. As suggested, the bollards and well casings should be repaired and they painted with a weather resistant paint. And new padlocks that operate with a universal key should be installed on each monitoring well.

REFERENCES

Baker Environmental, Inc. (Baker). January 1997. Record of Decision for Operable Unit No. 12 (Site 3). Final. Prepared for the Navy Atlantic Division Naval Facilities Engineering Command, Norfolk, Virginia.

Baker Environmental, Inc. (Baker). December 1996. Long-Term Monitoring Work Plans for Remedial Investigation Sites. Prepared for the Navy Atlantic Division Naval Facilities Engineering Command, Norfolk, Virginia.

TABLES

TABLE 1

SUMMARY OF WELL CONSTRUCTION DETAILS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number	Installed	Top of Casing Elevation (feet, msl)	Ground Surface Elevation (feet, msl)	Boring Depth (feet, bgs)	Well Depth (feet, bgs)	Screen Interval Depth (feet, bgs)	Depth to Sand Pack (feet, bgs)	Depth to Bentonite (feet, bgs)	Stick-Up (feet, ags)
03-MW02	1991	35.91	32.4	17.0	17.0	16.8 - 6.8	2.0	4.0	3.6
03-MW02IW	1994	35.19	32.5	87.0	86.5	86.5 - 71.5	61.0	66.5	2.7
03-MW02DW	1995	34.06	32.2	140.5	140.0	140.0 - 125.0	119.0	122.0	1.9
03-MW06	1994	30.55	27.9	23.0	22.0	22.0 - 7.0	3.5	5.0	2.6
03-MW07	1994	33.51	31.1	15.0	14.0	14.0 - 4.0	3.0	1.5	2.4
03-MW08	1994	32.62	30.1	18.0	18.0	18.0 - 3.0	2.0	1.0	2.5
03-MW11	1995	32.69	30.7	32.0	31.5	31.5 - 16.5	11.5	14.0	2.0
03-MW11IW	1995	32.55	30.3	88.0	87.0	87.0 - 72.0	66.0	69.0	2.3
03-MW13	1995	22.93	20.8	22.0	21.5	21.5 - 6.5	2.0	4.0	2.1

Notes:

ags = Above ground surface
bgs = Below ground surface
msl = Mean sea level
NA = Information not available

TABLE 2

SUMMARY OF GROUNDWATER FIELD PARAMETERS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number/ Date of Measurement	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance µmhos/cm	Temperature (°C)	pH (S.U.)	Turbidity (N.T.U)
03-MW02 (01/20/98)	0945	1.0	1.1	149	14.7	5.86	14
	0953	2.0	1.4	140	14.6	5.83	13
	1005	3.0	1.3	140	14.8	5.83	3.9
	1017	4.0	1.2	139.4	14.7	5.82	4.1
03-MW02IW (01/20/98)	0940	1.0	1.0	408	15.9	7.64	0.8
	0955	1.5	1.3	409	17.4	7.73	0.8
	1010	2.0	1.2	404	16.9	7.71	0.8
	1025	2.5	1.1	387	16.9	7.73	0.8
	1040	3.0	1.0	384	16.9	7.70	0.6
03-MW02DW (01/20/98)	0820	1.0	1.5	299	16.3	7.65	1.9
	0830	1.5	1.1	289	16.6	7.79	2.7
	0840	2.0	0.9	285	16.7	7.87	1.9
	0850	2.5	1.1	288	16.7	7.85	1.5
	0900	3.0	1.1	288	16.8	7.81	1.3
03-MW06 (01/20/98)	1135	1.0	2.2	147	14.7	6.10	53
	1145	2.0	2.2	141	14.3	5.89	21
	1155	3.0	2.1	136	14.2	5.77	11
03-MW07 (01/20/98)	1530	1.0	2.3	143	13.5	4.63	8.4
	1540	2.0	2.6	138	13.9	4.55	3.0
	1555	3.0	2.5	139	13.8	4.55	0.4
03-MW11 (01/20/98)	1257	1.0	2.8	102	15.5	4.82	4.1
	1307	2.0	3.5	98	16.0	4.82	2.4
	1317	3.0	3.6	98	16.1	5.03	1.2
03-MW11IW (01/20/98)	1313	1.0	1.0	342	16.2	9.59	2.0
	1337	1.5	1.1	341	16.1	9.42	1.4
	1404	2.0	1.1	351	15.9	9.39	1.8
	1432	2.5	1.2	344	16.1	9.32	1.3
	1458	3.0	1.0	338	15.9	9.30	1.7

TABLE 2 (Continued)

SUMMARY OF GROUNDWATER FIELD PARAMETERS
OPERABLE UNIT NO. 12 - SITE 3
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number/ Date of Measurement	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance µmhos/cm	Temperature (°C)	pH (S.U.)	Turbidity (N.T.U)
03-MW13 (01/20/98)	1619	1.0	1.3	461	13.8	6.80	32
	1627	1.5	1.5	410	15.2	6.60	12
	1634	2.0	1.6	399	15.3	6.60	7.8
	1642	2.5	1.6	397	15.2	6.58	10
	1648	3.0	1.8	385	15.4	6.59	13
	1652	3.5	1.9	386	15.2	6.57	16
	1659	4.0	2.1	378	15.5	6.61	19
	1707	4.5	2.0	379	15.2	6.62	54
	1712	5.0	2.0	374	15.3	6.56	56

Notes:

N.T.U.	=	Nephelometric Turbidity Units
S.U.	=	Standard Units
µmhos/cm	=	micro ohms per centimeter
°C	=	degrees centigrade
mg/L	=	milligrams per liter

TABLE 3

SAMPLING SUMMARY
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Sample Location	Media	TCL Volatiles[1]	TCL Semivolatiles[2]	Laboratory Sample Identification
03-MW02	Groundwater	X	X	IR03-GW02-98A
03-MW02IW	Groundwater	X	X	IR03-GW2IW-98A
03-MW02DW	Groundwater	X	X	IR03-GW02DW-98A
03-MW06	Groundwater	X	X	IR03-GW06-98A
02-MW07	Groundwater	X	X	IR03-GW07-98A
03-MW11	Groundwater	X	X	IR03-GW11-98A
03-MW11IW	Groundwater	X	X	IR03-GW11IW-98A
03-MW13	Groundwater	X	X	IR03-GW13-98A

Notes:

(1) Target Compound List Volatile Organics by U.S. Environmental Protection Agency Method 8260A.
(2) Target Compound List Semivolatile Organics by U.S. Environmental Protection Agency Method 8270.

X = Requested Analysis

TABLE 4

SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well ID	Reference Elevation[(1)]	SWL (Date 01/20/98)	SWE (Date 01/20/98)
03-MW01	35.36	23.08	12.28
03-MW02	35.85	7.50	28.35
03-MW02IW	35.19	25.74	9.45
03-MW02DW	34.06	25.76	8.30
03-MW04	33.43	16.80	16.63
03-MW05	34.00	21.45	12.55
03-MW26	30.55	8.26	22.29
03-MW07	33.51	3.40	30.11
03-MW09	33.29	3.02	30.27
03-MW10	33.85	2.48	31.37
03-MW11	32.69	22.74	9.95
03-MW11IW	32.55	23.90	8.65
03-MW12	29.55	16.44	13.11
03-MW13	22.93	7.63	15.30

Notes:

(1) Top of well casing expressed in feet above mean sea level.

SWL = Static water level taken from top of well casing
SWE = Static water elevation expressed in feet above mean sea level

TABLE 5

TRIP BLANK ANALYTICAL RESULTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR03-TB01-98A
DATE SAMPLED	01-20-1998
VOLATILES (ug/L)	
1,1,1-Trichloroethane	5 U
1,1,2,2-Tetrachloroethane	5 U
1,1,2-Trichloroethane	5 U
1,1-Dichloroethane	5 U
1,1-Dichloroethene	5 U
1,2-Dichloroethane	5 U
1,2-Dichloroethene (total)	5 U
1,2-Dichloropropane	5 U
2-Butanone	20 U
2-Hexanone	20 U
4-Methyl-2-pentanone	20 U
Acetone	20 U
Benzene	5 U
Bromodichloromethane	5 U
Bromoform	5 U
Bromomethane	10 U
Carbon disulfide	5 U
Carbon tetrachloride	5 U
Chlorobenzene	5 U
Chloroethane	10 U
Chloroform	5 U
Chloromethane	10 U
cis-1,3-Dichloropropene	5 U
Dibromochloromethane	5 U
Ethylbenzene	5 U
Methylene chloride	2.2 JB
Styrene	5 U
Tetrachloroethene	5 U
Toluene	5 U
trans-1,3-Dichloropropene	5 U
Trichloroethene	5 U
Vinyl chloride	10 U
Xylenes (total)	5 U

U = Not Detected
J = Estimated Value
B = Detected in Blank
ug/L = Micrograms per liter

TABLE 6

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Fraction	Detected Contaminants or Analytes	Comparison Criteria		Concentration Range		Location of Maximum Detection	Detection Frequency	Detections Above	
		NCWQS	MCL	Min.	Max.			NCWQS	MCL
Volatile Organics	Ethylbenzene	29	700	9.0 J	14 J	03-MW02	2/8	0	0
	Toluene	1,000	1,000	3.5 J	13 J	03-MW02	2/8	0	0
	Xylenes (total)	530	10,000	23 J	39 J	03-MW02	2/8	0	0
Semivolatile Organics	2,4-Dimethylphenol	NE	NE	150	150	03-MW02	1/8	NA	NA
	2-Methylnapthalene	NE	NE	74	410	03-MW02	2/8	NA	NA
	2-Methylphenol	NE	NE	220	220	03-MW02	1/8	NA	NA
	4-Chloro-3-methylphenol	NE	NE	2.1 J	2.1 J	03-MW02	1/8	NA	NA
	4-Methylphenol	NE	NE	560	560	03-MW02	1/8	NA	NA
	Acenapthene	80	NE	1.3 J	390	03-MW02	3/8	1	NA
	Acenapthylene	210	NE	4.0 J	4.0 J	03-MW02	1/8	0	NA
	Anthracene	2,100	NE	4.1 J	9.2 J	03-MW02	2/8	0	NA
	bis(2-Ethylhexyl)phthalate	3.0	6.0	2.2 J	2.2 J	03-MW07	1/8	0	0
	Carbazole	NE	NE	29	180	03-MW02	2/8	NA	NA
	Dibenzofuran	NE	NE	4.6 J	220	03-MW02	3/8	NA	NA
	Fluoranthene	280	NE	18	23	03-MW02	2/8	0	NA
	Fluorene	280	NE	6.0 J	180 J	03-MW02	3/8	0	NA
	Naphthalene	21	NE	1,100	2,800	03-MW02	2/8	2	NA
	Nitrobenzene	NE	NE	18	18	03-MW02	1/8	NA	NA
	N-Nitrosodiphenylamine	NE	NE	1.9 J	1.9 J	03-MW02	1/8	NA	NA
	Phenanthrene	210	NE	23	170 J	03-MW02	3/8	0	NA
	Phenol	300	NE	430	430	03-MW02	1/8	1	NA
	Pyrene	210	NE	12	15	03-MW02	2/8	0	NA

Notes:

Volatile and semivolatile organic concentrations presented in micrograms per liter (µg/L) or parts per billion.

J = Estimated Value

MCL = Federal Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered users of public water systems (U.S. Environmental Protection Agency - Drinking Water Regulations and Health Advisories).

NA = Not Applicable

NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2L).

NE = Not Established

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR03-GW02-98A	R03-GW02DW-98A	IR03-GW02IW-98A	IR03-GW06-98A	IR03-GW07-98A	IR03-GW11-98A	IR03-GW11IW-98A	IR03-GW13-98A
DATE SAMPLED	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998
VOLATILES (ug/L)								
Ethylbenzene	14 J	5 U	5 U	9 J	5 U	5 U	5 U	5 U
Methylene chloride	13 JB	1.9 JB	1.7 JB	8.6 JB	1.7 JB	1.5 JB	1.2 JB	1.5 JB
Toluene	13 J	5 U	5 U	3.5 J	5 U	5 U	5 U	5 U
Xylenes (total)	39 J	5 U	5 U	23 J	5 U	5 U	5 U	5 U
SEMIVOLATILES (ug/L)								
2,4-Dimethylphenol	150	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	410	10 U	10 U	74	10 U	10 U	10 U	10 U
2-Methylphenol	220	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	2.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	560	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	390	10 U	1.3 J	71	10 U	10 U	10 U	10 U
Acenaphthylene	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	9.2 J	10 U	4.1 J	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl) phthalate	10 U	10 U	10 U	10 U	2.2 J	10 U	10 U	10 U
Carbazole	180	10 U	10 U	29	10 U	10 U	10 U	10 U
Dibenzofuran	220	10 U	4.6 J	35	10 U	10 U	10 U	10 U
Fluoranthene	23	10 U	18	10 U	10 U	10 U	10 U	10 U
Fluorene	180 J	10 U	6 J	31	10 U	10 U	10 U	10 U
Naphthalene	2800	10 U	10 U	1100	10 U	10 U	10 U	10 U
Nitrobenzene	18	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	1.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	170 J	10 U	40	23	10 U	10 U	10 U	10 U
Phenol	430	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	15	10 U	12	10 U	10 U	10 U	10 U	10 U

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = micrograms per liter

TABLE 8

ORGANIC COMPOUNDS IN GROUNDWATER
JANUARY 1997 - JANUARY 1998
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/ Organic Compound	MCL	NCWQS	January 1997	July 1997	January 1998
03-MW02					
Ethylbenzene	700	29	16	12	14 J
Toluene	1,000	1,000	10	10 J	13 J
Xylenes (total)	10,000	530	40	29	39 J
2,4-Dimethylphenol	NE	NE	70 J	89 J	150
2-Methylnapthalene	NE	NE	360	260 J	410
2-Methylphenol	NE	NE	150 J	220 J	220
4-Chloro-3-methylphenol	NE	NE	ND	ND	2.1 J
4-Methylphenol	NE	NE	340	540	560
Acenapthene	NE	80	450	310 J	390
Acenapthylene	NE	210	5.0 J	3.0 J	4.0 J
Anthracene	NE	2,100	10 J	10 J	9.2 J
bis(2-Ethylhexyl)phthalate	6.0	3.0	3.0 J	12	ND
Carbazole	NE	NE	140 J	120 J	180
Dibenzofuran	NE	NE	260	170 J	220
Fluoranthene	NE	280	19	25	23
Fluorene	NE	280	220 J	140 J	180 J
Naphthalene	NE	21	1,800	1,900	2,800
Nitrobenzene	NE	NE	ND	ND	18
N-Nitrosodiphenylamine	NE	NE	ND	ND	1.9 J
Phenanthrene	NE	210	190 J	150 J	170 J
Phenol	NE	300	230 J	410	430
Pyrene	NE	210	11	16	15
03-MW02IW					
Acenapthene	NE	80	5.0 J	3.0 J	1.3 J
Anthracene	NE	2,100	3.0 J	5.0 J	4.1 J
bis(2-Ethylhexyl)phthalate	6.0	3.0	ND	1.0	ND
Dibenzofuran	NE	NE	6.0 J	6.0 J	4.6 J
Fluoranthene	NE	280	20	25	18
Fluorene	NE	280	6.0 J	9.0 J	6.0 J
Phenanthrene	NE	210	6.0 J	48	40
Pyrene	NE	210	14	16	12

TABLE 8 (Continued)

ORGANIC COMPOUNDS IN GROUNDWATER
JANUARY 1997 - JANUARY 1998
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

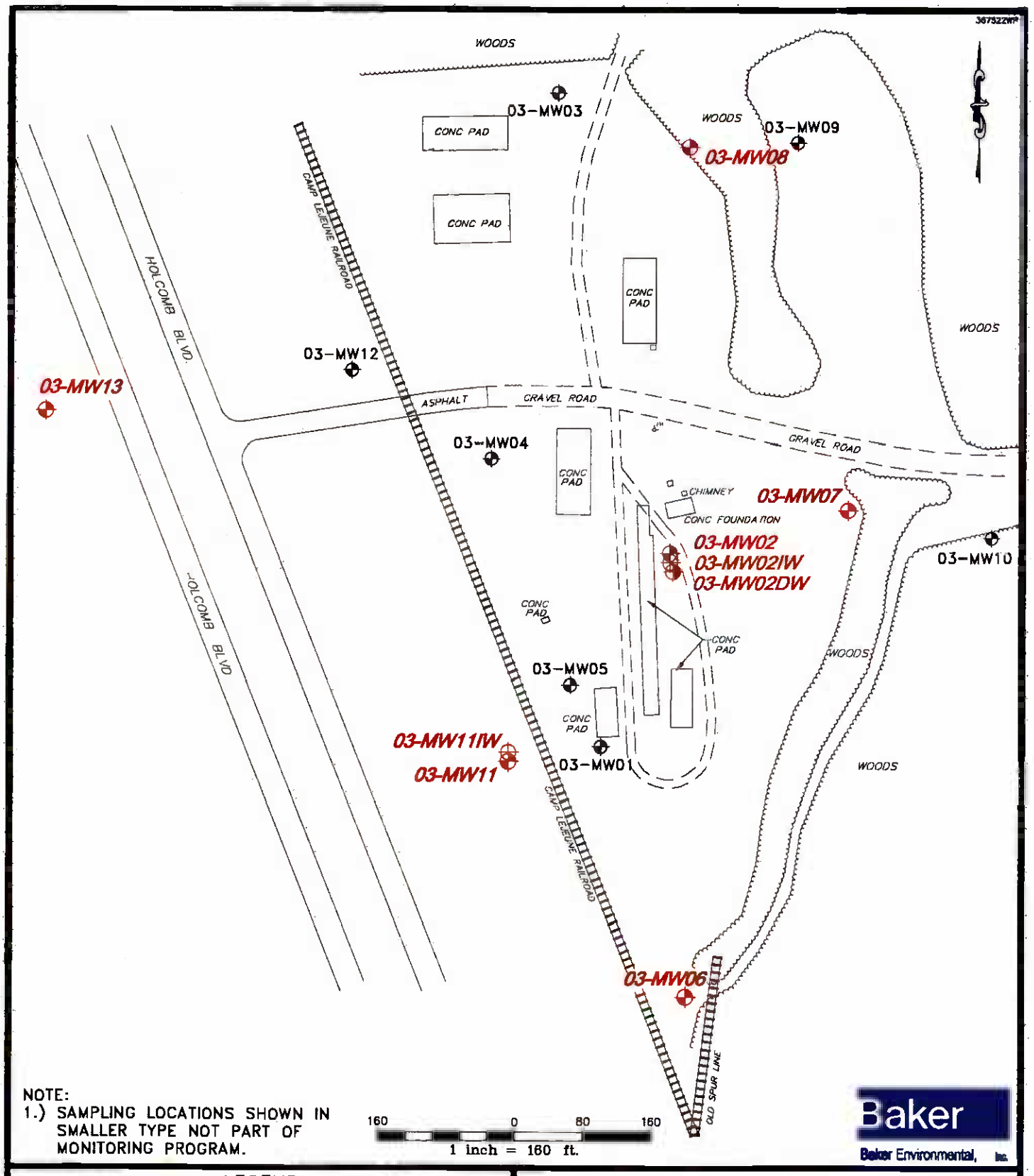
Monitoring Well/ Organic Compound	MCL	NCWQS	January 1997	July 1997	January 1998
03-MW02DW					
bis(2-Ethylhexyl)phthalate	6.0	3.0	7.0 J	56	ND
03-MW06					
Ethylbenzene	700	29	ND	ND	9.0 J
Toluene	1,000	1,000	ND	ND	3.5 J
Xylenes (total)	10,000	530	ND	ND	23 J
2-Methylnapthalene	NE	NE	ND	3.0 J	74
Acenapthene	NE	80	1.0 J	12	71
bis(2-Ethylhexyl)phthalate	6.0	3.0	14	6.0 J	ND
Carbazole	NE	NE	ND	2.0 J	29
Dibenzofuran	NE	NE	1.0 J	9.0 J	35
Fluorene	NE	280	1.0 J	8.0 J	31
Naphthalene	NE	21	ND	30	1,100
Phenanthrene	NE	210	ND	6.0 J	23
03-MW11					
bis(2-Ethylhexyl)phthalate	6.0	3.0	250	1.0 J	ND
03-MW11IW					
bis(2-Ethylhexyl)phthalate	6.0	3.0	1.0 J	ND	ND
03-MW13					
bis(2-Ethylhexyl)phthalate	6.0	3.0	1.0 J	5.0 J	ND

Notes:

Concentrations expressed in micrograms per liter (µg/L) or parts per billion.

MCL = Federal Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system. (U.S. Environmental Protection Agency - Drinking Water Regulations and Health Advisories.)
NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).
NC = Sample not collected
ND = Not Detected
NE = Not Established

FIGURES



NOTE:
1.) SAMPLING LOCATIONS SHOWN IN SMALLER TYPE NOT PART OF MONITORING PROGRAM.

Baker
Baker Environmental, Inc.

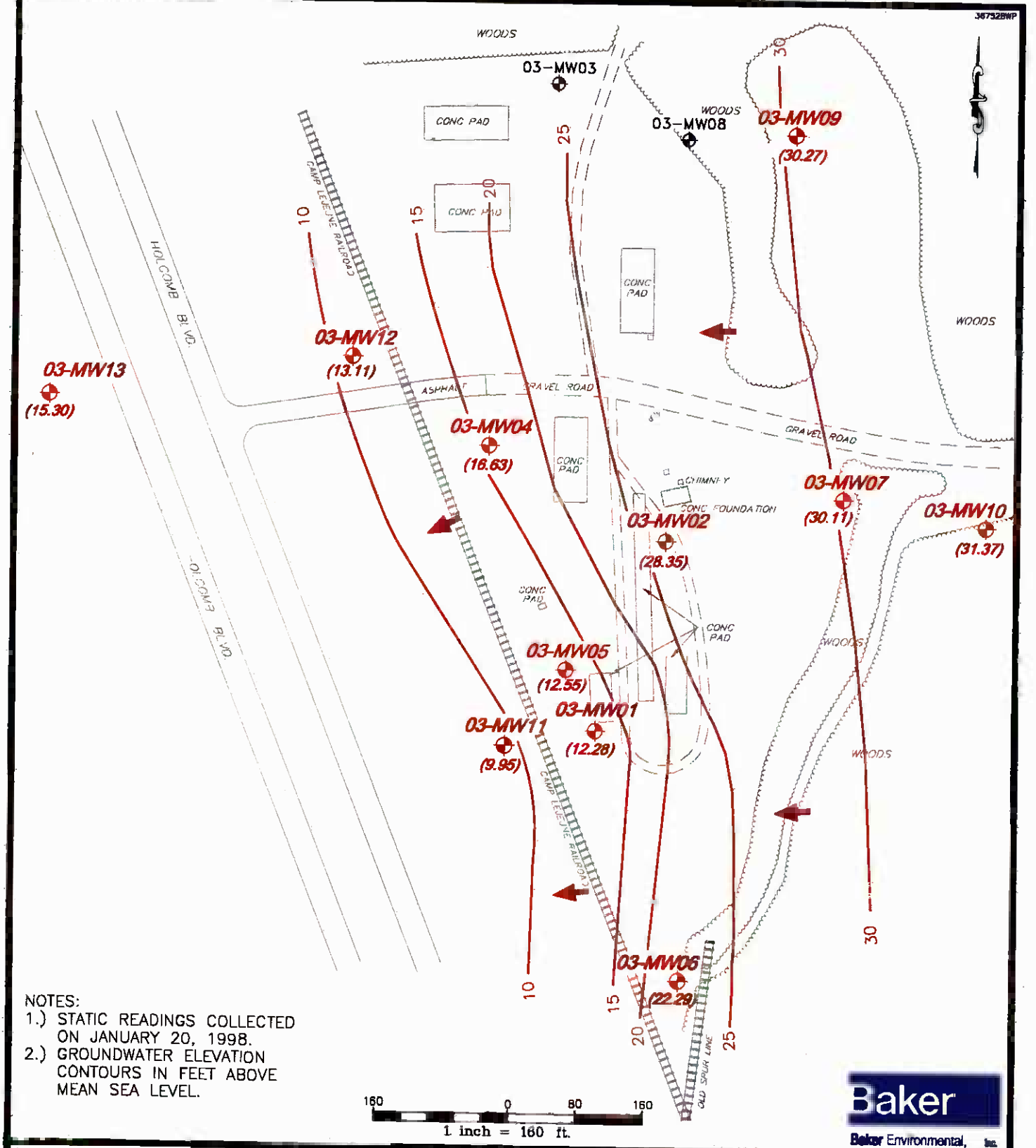
LEGEND

- 03-MW02 — SHALLOW MONITORING WELL
- 03-MW02IW — INTERMEDIATE MONITORING WELL
- 03-MW02DW — DEEP MONITORING WELL
- TREE LINE
- RAILROAD

SOURCE: W.K. DICKSON & Co., INC., JANUARY 1995

FIGURE 1
SAMPLING LOCATION MAP
OPERABLE UNIT NO. 12 – SITE 3
MONITORING AND O&M SUPPORT
CTO–0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

02277KKBIY

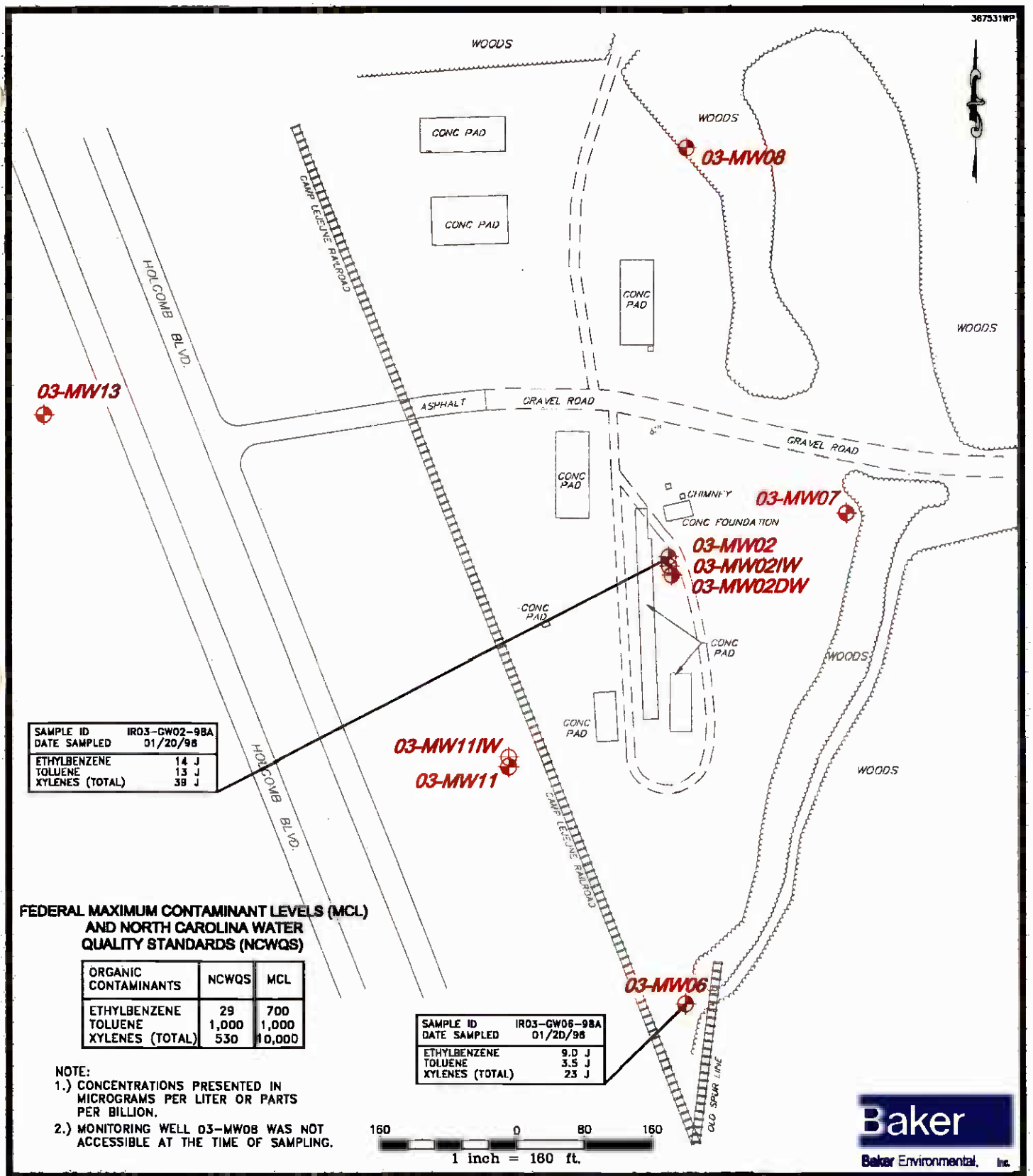


LEGEND

- 03-MW01 ⊕ – SHALLOW MONITORING WELL
- (6.72) – GROUNDWATER ELEVATION
- 10.0 – GROUNDWATER ELEVATION CONTOUR
- → – APPROXIMATE DIRECTION OF GROUNDWATER FLOW

SOURCE: W.K. DICKSON & Co., INC., JANUARY 1995

FIGURE 2
SHALLOW GROUNDWATER CONTOUR MAP
OPERABLE UNIT NO. 12 – SITE 3
MONITORING AND O&M SUPPORT
CTO–0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA



LEGEND

- 03-MW02 — SHALLOW MONITORING WELL
- 03-MW02IW — INTERMEDIATE MONITORING WELL
- 03-MW02DW — DEEP MONITORING WELL
- TREE LINE
- RAILROAD

SOURCE: W.K. DICKSON & Co., INC., JANUARY 1995

FIGURE 3
VOLATILE ORGANICS IN GROUNDWATER
OPERABLE UNIT NO. 12 – SITE 3
MONITORING AND O&M SUPPORT
CTO–0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

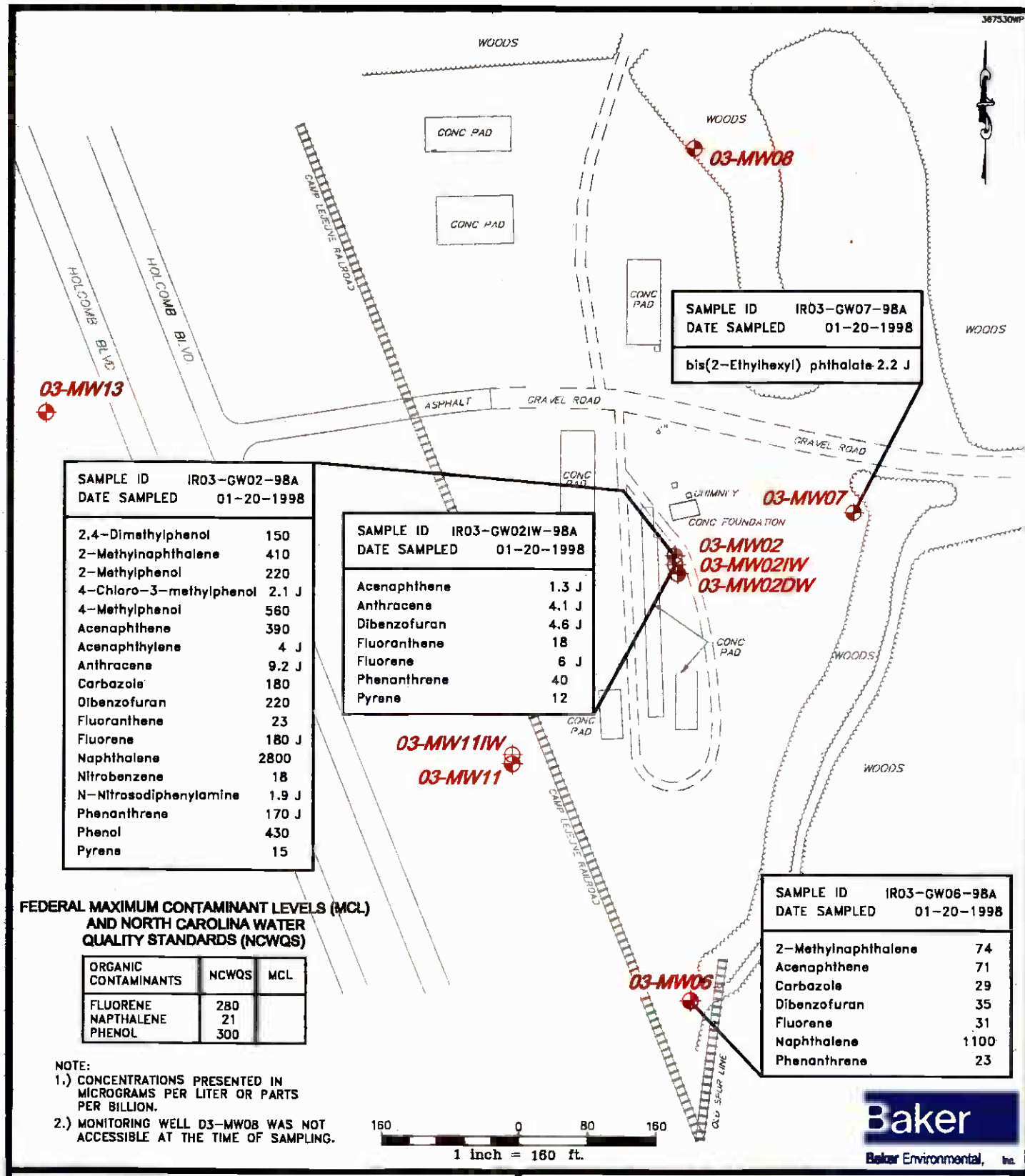


FIGURE 4
SEMIVOLATILE ORGANICS IN GROUNDWATER
OPERABLE UNIT NO. 12 – SITE 3
MONITORING AND O&M SUPPORT
CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

ATTACHMENTS

ATTACHMENT A
CHAIN-OF-CUSTODY DOCUMENTATION

Chain of Custody Record

Quanterra

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 6 0 - 0 0 1 *

COC # 36798A-06

QUA-4149-1

Client	Project Manager	Date
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
Airport Office Park Bldg 3	(412) 269-6000 / (000)	QUANTERRA - KNOXVILL
City / State / Zip Code	**Site Contact**	
Coraopolis / PA / 15108	Baker Environmental, Inc.	
Project Number/Name	**Carrier/Waybill Number**	
Camp LeJeune	FedEx 802769751007	

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : 1998

QUOTE: 21108

Page 1 of 1

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: MSS826701 / MSS822701
IR03-GW02-98A	1-20	1020	WATER	1L	AMBER	2	None		X
IR03-GW02-98A		1020	WATER	40mL	VIAL	3	1:1 HCL		X
IR03-GW02IW-98A		1045	WATER	1L	AMBER	2	None		X
IR03-GW02IW-98A		1045	WATER	40mL	VIAL	3	1:1 HCL		X
IR03-GW02DW-98A		0905	WATER	1L	AMBER	2	None		X
IR03-GW02DW-98A		0905	WATER	40mL	VIAL	3	1:1 HCL		X
IR03-GW06-98A		1200	WATER	1L	AMBER	2	None		X
IR03-GW06-98A		1200	WATER	40mL	VIAL	3	1:1 HCL		X
[redacted]			[redacted]						X
IR03-GW11-98A		1320	WATER	40mL	VIAL	3	1:1 HCL		X
[redacted]			[redacted]						X
IR03-GW11IW-98A		1500	WATER	40mL	VIAL	3	1:1 HCL		X
[redacted]			[redacted]						X
IR03-GW13-98A		1720	WATER	40mL	VIAL	3	1:1 HCL		X
IR03-GW07-98A		1600	"	40ml	"	3	"		X
IR03-TB01-98A	↓	1530	"	40 ml	"	3	"		X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client (X) Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: (X) Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	1-20-98	1750	1. Received By: FedEx	1-21-98	1800
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 6 0 - 0 0 1 *

COC# 36798A-Ø[redacted]7

QUA-4149-1

Client	Project Manager	Date	Page 1 of 1
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998	
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**	**Analysis**
Airport Office Park Bldg 3	(412) 269-6000 / (000)	QUANTERRA - KNOXVILL	
City / **State** / **Zip Code**	**Site Contact**		
Coraopolis / PA / 15108	Baker Environmental, Inc.		
Project Number/Name	**Carrier/Waybill Number**		
Camp LeJeune	FedEx 802769751007		
Contract/Purchase Order/Quote Number			
CONTRACT / PURCHASE ORDER # : 1998	QUOTE: 21108		

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	MS 8260 VOL	MS 8270 L
[redacted]			[redacted]				None			X
[redacted]			[redacted]				[redacted]CL		X	
[redacted]			[redacted]							X
[redacted]			[redacted]				[redacted]L		X	
[redacted]			[redacted]							X
[redacted]			[redacted]				[redacted]		X	
[redacted]			[redacted]							X
[redacted]			[redacted]						X	
IR03-GW11-98A	1-20	1320	WATER	1L	AMBER	2	None			X
[redacted]			[redacted]						X	
IR03-GW11W-98A	1-20	1500	WATER	1L	AMBER	2	None			X
[redacted]			[redacted]						X	
IR03-GW13-98A	1-20	1720	WATER	1L	AMBER	2	None			X
[redacted]			[redacted]						X	
IRØ3-GWØ7-98A	1-20	1600	"	1L	Amber	2	None			X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	1-20-98	1750	1. Received By: FedEx	1-20-98	1800
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

ATTACHMENT B
MONITORING PROGRAM ANALYTICAL RESULTS

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR03-GW02-98A	IR03-GW02DW-98A	IR03-GW02IW-98A	IR03-GW06-98A	IR03-GW07-98A	IR03-GW11-98A	IR03-GW11IW-98A	IR03-GW13-98A
DATE SAMPLED	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998
VOLATILES (ug/L)								
1,1,1-Trichloroethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
2-Butanone	200 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U
2-Hexanone	200 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone	200 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U
Acetone	200 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U
Benzene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Bromodichloromethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Bromoform	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Bromomethane	100 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Carbon disulfide	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Chlorobenzene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Chloroethane	100 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Chloroform	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Chloromethane	100 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Dibromochloromethane	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Ethylbenzene	14 J	5 U	5 U	9 J	5 U	5 U	5 U	5 U
Methylene chloride	13 JB	1.9 JB	1.7 JB	8.6 JB	1.7 JB	1.5 JB	1.2 JB	1.5 JB
Styrene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Tetrachloroethene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Toluene	13 J	5 U	5 U	3.5 J	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Trichloroethene	50 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U
Vinyl chloride	100 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Xylenes (total)	39 J	5 U	5 U	23 J	5 U	5 U	5 U	5 U

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR03-GW02-98A	IR03-GW02DW-98A	IR03-GW02IW-98A	IR03-GW06-98A	IR03-GW07-98A	IR03-GW11-98A	IR03-GW11IW-98A	IR03-GW13-98A
DATE SAMPLED	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998
SEMIVOLATILES (ug/L)								
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	150	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	410	10 U	10 U	74	10 U	10 U	10 U	10 U
2-Methylphenol	220	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Bromophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	2.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	560	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	390	10 U	1.3 J	71	10 U	10 U	10 U	10 U
Acenaphthylene	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	9.2 J	10 U	4.1 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 12 - SITE 3
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR03-GW02-98A	IR03-GW02DW-98A	IR03-GW02IW-98A	IR03-GW06-98A	IR03-GW07-98A	IR03-GW11-98A	IR03-GW11IW-98A	IR03-GW13-98A
DATE SAMPLED	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998	01-20-1998
SEMIVOLATILES (ug/L) (cont)								
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(ghi)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl) ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl) phthalate	10 U	10 U	10 U	10 U	2.2 J	10 U	10 U	10 U
Butyl benzyl phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	180	10 U	10 U	29	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	220	10 U	4.6 J	35	10 U	10 U	10 U	10 U
Diethyl phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	23	10 U	18	10 U	10 U	10 U	10 U	10 U
Fluorene	180 J	10 U	6 J	31	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	2800 D	10 U	10 U	1100 D	10 U	10 U	10 U	10 U
Nitrobenzene	18	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodi-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	1.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Phenanthrene	170 J	10 U	40	23	10 U	10 U	10 U	10 U
Phenol	430	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	15	10 U	12	10 U	10 U	10 U	10 U	10 U

ATTACHMENT C
ANALYTICAL LABORATORY DATA SHEETS

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 5 / mL
Work Order: CF17P101
Dilution factor: 10

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	**Methylene chloride**	**13**	**J B**
67-64-1	Acetone	200	U
75-15-0	Carbon disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	200	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-pentanone	200	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 5 / mL
Work Order: CF17P101
Dilution factor: 10

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	**Toluene**	**13**	**J**
108-90-7	Chlorobenzene	50	U
100-41-4	**Ethylbenzene**	**14**	**J**
100-42-5	Styrene	50	U
1330-20-7	**Xylenes (total)**	**39**	**J**

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 1040 / mL
Work Order: CF17P102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	**Phenol**	**520**	**E**
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	**2-Methylphenol**	**260**	**E**
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	**4-Methylphenol**	**650**	**E**
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	**Nitrobenzene**	**18**	
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	**2,4-Dimethylphenol**	**150**	
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	**Naphthalene**	**1500**	**E**
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	**4-Chloro-3-methylphenol**	**2.1**	**J**
91-57-6	**2-Methylnaphthalene**	**420**	**E**
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 1040 / mL
Work Order: CF17P102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	**Acenaphthylene**	**4.0**	**J**
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	**Acenaphthene**	**350**	**E**
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	**Dibenzofuran**	**210**	**E**
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	**Fluorene**	**170**	**E**
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	**N-Nitrosodiphenylamine**	**1.9**	**J**
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	**Phenanthrene**	**170**	**E**
120-12-7	**Anthracene**	**9.2**	**J**
86-74-8	**Carbazole**	**180**	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	**Fluoranthene**	**23**	
129-00-0	**Pyrene**	**15**	
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 1040 / mL
Work Order: CF17P102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 1040 / mL
Work Order: CF17P202
Dilution factor: 10

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW02-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	500	D
95-48-7	2-Methylphenol	280	D
106-44-5	4-Methylphenol	660	D
91-20-3	Naphthalene	2600	E
91-57-6	2-Methylnaphthalene	430	D
83-32-9	Acenaphthene	410	D
132-64-9	Dibenzofuran	240	D
86-73-7	Fluorene	190	D
85-01-8	Phenanthrene	180	D

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 005

Sample WT/Vol: 1040 / mL
Work Order: CF17P302
Dilution factor: 20

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW02-98A -RE 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	2800	D

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 007

Sample WT/Vol: 5 / mL
Work Order: CF17V101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.9**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 007

Sample WT/Vol: 5 / mL
Work Order: CF17V101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 007

Sample WT/Vol: 1006 / mL
Work Order: CF17V102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW02DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 007

Sample WT/Vol: 1006 / mL
Work Order: CF17V102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW02DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 007

Sample WT/Vol: 1006 / mL
Work Order: CF17V102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW02DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 006

Sample WT/Vol: 5 / mL
Work Order: CF17T101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.7**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 006

Sample WT/Vol: 5 / mL
Work Order: CF17T101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW02IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 006

Sample WT/Vol: 982 / mL
Work Order: CF17T102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 006

Sample WT/Vol: 982 / mL
Work Order: CF17T102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	**Acenaphthene**	**1.3**	**J**
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	**Dibenzofuran**	**4.6**	**J**
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	**Fluorene**	**6.0**	**J**
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	**Phenanthrene**	**40**	
120-12-7	**Anthracene**	**4.1**	**J**
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	**Fluoranthene**	**18**	
129-00-0	**Pyrene**	**12**	
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 006

Sample WT/Vol: 982 / mL
Work Order: CF17T102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW02IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 5 / mL
Work Order: CF17W101
Dilution factor: 5

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW06-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	**Methylene chloride**	**8.6**	**J B**
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	25	U
75-35-4	1,1-Dichloroethene	25	U
75-34-3	1,1-Dichloroethane	25	U
540-59-0	1,2-Dichloroethene (total)	25	U
67-66-3	Chloroform	25	U
107-06-2	1,2-Dichloroethane	25	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	25	U
56-23-5	Carbon tetrachloride	25	U
75-27-4	Bromodichloromethane	25	U
78-87-5	1,2-Dichloropropane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
79-01-6	Trichloroethene	25	U
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	25	U
71-43-2	Benzene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
75-25-2	Bromoform	25	U
108-10-1	4-Methyl-2-pentanone	100	U
591-78-6	2-Hexanone	100	U
127-18-4	Tetrachloroethene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 5 / mL
Work Order: CF17W101
Dilution factor: 5

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW06-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	**Toluene**	**3.5**	**J**
108-90-7	Chlorobenzene	25	U
100-41-4	**Ethylbenzene**	**9.0**	**J**
100-42-5	Styrene	25	U
1330-20-7	**Xylenes (total)**	**23**	**J**

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 1015 / mL
Work Order: CF17W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW06-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	**Naphthalene**	**650**	**E**
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	**2-Methylnaphthalene**	**74**	
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 1015 / mL
Work Order: CF17W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW06-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	**Acenaphthene**	**71**	
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	**Dibenzofuran**	**35**	
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	**Fluorene**	**31**	
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	**Phenanthrene**	**23**	
120-12-7	Anthracene	10	U
86-74-8	**Carbazole**	**29**	
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 1015 / mL
Work Order: CF17W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW06-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 008

Sample WT/Vol: 1015 / mL
Work Order: CF17W202
Dilution factor: 10

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/29/98

QC Batch: 8026109

Client Sample Id: IR03-GW06-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
91-20-3	Naphthalene	1100	D

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 004

Sample WT/Vol: 5 / mL
Work Order: CF17M101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW07-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	1.7	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 004

Sample WT/Vol: 5 / mL
Work Order: CF17M101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW07-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 004

Sample WT/Vol: 943 / mL
Work Order: CF17M102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW07-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 004

Sample WT/Vol: 943 / mL
Work Order: CF17M102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW07-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 004

Sample WT/Vol: 943 / mL
Work Order: CF17M102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW07-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	**bis(2-Ethylhexyl) phthalate**	2.2	J
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 001

Sample WT/Vol: 5 / mL
Work Order: CF16L101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.5**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 001

Sample WT/Vol: 5 / mL
Work Order: CF16L101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 001

Sample WT/Vol: 1035 / mL
Work Order: CF16L102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 001

Sample WT/Vol: 1035 / mL
Work Order: CF16L102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 001

Sample WT/Vol: 1035 / mL
Work Order: CF16L102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 002

Sample WT/Vol: 5 / mL
Work Order: CF16R101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW11IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	1.2	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 002

Sample WT/Vol: 5 / mL
Work Order: CF16R101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW11IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 002

Sample WT/Vol: 979 / mL
Work Order: CF16R102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 002

Sample WT/Vol: 979 / mL
Work Order: CF16R102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 002

Sample WT/Vol: 979 / mL
Work Order: CF16R102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW11IW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 003

Sample WT/Vol: 5 / mL
Work Order: CF16W101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW13-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.5**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 003

Sample WT/Vol: 5 / mL
Work Order: CF16W101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-GW13-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 003

Sample WT/Vol: 1036 / mL
Work Order: CF16W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW13-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 003

Sample WT/Vol: 1036 / mL
Work Order: CF16W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW13-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
131-11-3	Dimethyl phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethyl phthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butyl phthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8270B
Base/Neutrals and Acids (8270B)

Lab Sample ID:H8A210123 003

Sample WT/Vol: 1036 / mL
Work Order: CF16W102
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/26/98
Date Analyzed: 01/28/98

QC Batch: 8026109

Client Sample Id: IR03-GW13-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(ghi)perylene	10	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 009

Sample WT/Vol: 5 / mL
Work Order: CF17X101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-TB01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	2.2	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8A210123 009

Sample WT/Vol: 5 / mL
Work Order: CF17X101
Dilution factor: 1

Date Received: 01/21/98
Date Extracted:01/29/98
Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR03-TB01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U