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QUARTERLY MONITORING REPORT

**OPERABLE UNIT NO. 2 - SITES 6 AND 82
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

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QUARTERLY MONITORING REPORT

The quarterly monitoring report which follows presents a summary of sampling activities, field observations, analytical results, and significant findings which pertain to the monitoring program and groundwater treatment system at Operable Unit (OU) No. 2 (Sites 6 and 82), Marine Corps Base (MCB), Camp Lejeune, North Carolina. Conclusions and recommendations regarding the monitoring program and groundwater treatment system are also presented within this report.

Monitoring activities at OU No. 2 began in July 1997 and have continued on a quarterly basis. The mostly recent sampling initiative commenced January 14, 1998 and concluded January 23, 1998. Groundwater samples at Sites 6 and 82 were obtained from 12 shallow monitoring wells and 16 deep monitoring wells. Figure 1 depicts the locations of all monitoring wells throughout Sites 6 and 82. [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. 2 (Baker, 1996). The project work plans identify a select number of monitoring wells at Sites 6 and 82 for which continued periodic sampling is required. Figure 1 identifies wells included in the monitoring program and Table 1 provides construction details of the monitoring wells. As stipulated in the project work plans, measurements of pH, specific conductance, dissolved oxygen, temperature, and turbidity were recorded prior to sampling. Summaries of groundwater field parameters obtained during the most recent sampling initiative are provided in Table 2.

The monitoring program at Sites 6 and 82 was implemented to assess whether contamination, detected during previous investigations, remains present, has migrated, has degraded through natural processes, or has been eliminated through groundwater extraction. Based upon previous analytical results and decision documents, Target Compound List (TCL) volatiles and Target Analyte List (TAL) metals were identified as contaminants of concern. 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

The following provides information concerning groundwater flow patterns at Sites 6 and 82. Water level measurements were obtained on January 23, 1998 and are provided in Table 4. Groundwater elevations and groundwater flow directions in the surficial and deep aquifers are presented separately.

Surficial Aquifer

Figure 2 depicts the static elevations and approximate flow direction of groundwater in the surficial aquifer at Sites 6 and 82. Groundwater flow within the surficial aquifer is influenced by natural and man made topographic features, nearby drainages, and Wallace Creek, which borders the northern portion of Site 82. In general, the pattern of groundwater flow in the surficial aquifer mimics that

of ground surface topography. Groundwater flow within the surficial aquifer tends to flow north-northwest toward Wallace Creek from Site 82.

Deep Aquifer

Figure 3 depicts the static elevations and approximate flow direction of groundwater within the deep aquifer, referred to as the Castle Hayne Aquifer. As presented in Figure 3, groundwater in the deep aquifer tends to flow inward toward a network of recovery wells located in the central portion of Site 82. The recovery wells were constructed to remove groundwater from depths of 95 to 120 feet below ground surface. Contaminated groundwater is actively being extracted from the central portion of Site 82 via four deep recovery wells. Static water levels obtained from nearby monitoring wells have demonstrated a significant alteration of the potentiometric surface in this portion of the study area. And based upon groundwater elevations obtained during the previous two sampling initiatives, it appears that the recovery wells continue to impact groundwater flow patterns in the deep aquifer. Active pumping of groundwater appears to have caused the groundwater to move inward, toward this portion of Site 82.

Field Observations

The following field observations were noted during the most recent quarterly sampling event at Sites 6 and 82. Recommendations concerning the field observations which follow are presented later within this report.

Monitoring wells installed at Sites 6 and 82 during the 1986 Confirmation Study have begun to exhibit signs of deterioration. Turbidity readings, obtained during sampling activities, suggest that soil material from the surrounding formation has begun to infiltrate the well screens and sand packs of the older monitoring wells. Less than ideal sampling conditions may result when readings of greater than 50 nephelometric turbidity units (NTUs) are recorded. It is preferable that groundwater samples be collected after turbidity readings have stabilized at less than 10 NTUs. Elevated turbidity readings are particularly of concern when groundwater samples are submitted for metal analyses. Frequently, elevated metal concentrations result when naturally-occurring metals have adhered to soil particles suspended in the groundwater samples.

Three monitoring wells at Site 6 were abandoned immediately following the January sampling initiative; only one of the three wells was included in the monitoring program. Monitoring wells GW05, GW16, and GW20 were situated between Storage Lots 201 and 203 where several acres are being converted into a staging and storage area. Upon completion of the military construction project, monitoring well GW16 will be replaced. During the interim, no groundwater samples will be submitted for laboratory analyses from GW16. There are no plans to replace monitoring wells GW05 and GW20.

ANALYTICAL RESULTS AND FINDINGS

The section which follows presents analytical results and findings from sampling performed at Sites 6 and 82 during the first calendar quarter of 1998. A summary of all analytical results compiled during the sampling event are presented in Attachment B and corresponding laboratory data sheets are provided in Attachment C.

Two trip blanks were prepared prior to the sampling event. The trip blanks accompanied all groundwater samples during field collection, shipment, and laboratory analysis. As provided in Table 5, methylene chloride was detected at concentrations of 6.7 and 2.7 micrograms per liter ($\mu\text{g/L}$) in the trip blank samples. Methylene chloride, a common laboratory contaminant, was also detected among method blank samples. Methylene chloride was therefore considered a laboratory artifact and not a site contaminant when detected among groundwater samples. There were no other detections of any organic compounds in the trip blank samples.

Volatile Organic Compounds

Significant concentrations of volatile organic compounds (VOCs) were detected among a limited number of groundwater samples obtained from Sites 6 and 82. A majority of the VOC detections were in samples obtained from the uppermost portion of the surficial aquifer (i.e., less than 30 feet below ground surface) and the uppermost portion of the deep aquifer (i.e., between 95 and 115 feet below ground surface). However, two VOCs were also detected at concentrations of less than 1.1 $\mu\text{g/L}$ in samples obtained from deeper portion of the deep aquifer (i.e., greater than 200 feet below ground surface). A summary of groundwater analytical results is provided in Table 6 and a positive detection summary of all analytical results is presented in Table 7. The approximate horizontal extent of VOCs in the shallow and deep aquifers are presented in Figures 4 and 5, respectively.

Conditions within the upper portion of the surficial aquifer were evaluated at Sites 6 and 82 through collection and analysis of groundwater samples from 12 shallow monitoring wells (refer to Table 1 for well construction details and Figure 1 for well locations). Groundwater samples were also obtained from 11 deep monitoring wells with screened intervals set in the uppermost portion of the deep aquifer, at depths ranging from 95 to 155 feet below ground surface. In addition, groundwater samples were also collected from five monitoring wells with screened intervals set from 230 to 275 feet below ground surface.

The analytical data suggests that there are two areas of VOC contamination in the shallow aquifer and one area of VOC contamination in the uppermost portion of the deep aquifer. As presented in Figures 4 and 5, the location of contamination in the deep aquifer generally coincides with similar contaminants found in the shallow aquifer. The horizontal extent of contamination in the deep aquifer is larger, however. As depicted in Figures 4 and 5, the shallow and deep VOC plumes are situated within Site 82 and tend in the direction of groundwater flow (refer to Figures 2 and 3). An additional area of shallow groundwater contamination is situated at shallow monitoring well GW16. Figure 4 presents an approximate extent of horizontal contamination at GW16, because there are no additional shallow monitoring wells situated nearby with which to compare analytical results.

A total of ten VOCs were detected among samples associated with the shallow and deep contaminant plumes at Sites 6 and 82. As depicted in Figure 4, VOC detections in the shallow aquifer were limited to samples obtained from monitoring wells GW01, GW03, 82-GW03, GW16, GW28, GW32, and GW34. Among groundwater samples obtained from the deep aquifer, VOC detections were limited to monitoring wells GW01D, GW01DA, GW01DB, GW27DW, GW28DW, and GW37D. The sample obtained from well GW01D exhibited the highest concentrations of three VOCs identified. As presented in Table 6, 1,2-dichloroethene (total), tetrachloroethene, and trichloroethene were detected in the sample obtained from well GW01D at concentrations of 36,000, 2,000, and 170,000 $\mu\text{g/L}$, respectively. Chlorobenzene, 1,1,2,2-tetrachloroethane, and 1,1,2-trichloroethane were detected at maximum concentrations of 2,900, 11,000 and 58 $\mu\text{g/L}$ in

samples obtained from shallow monitoring wells GW16, GW34, and GW34, respectively. A majority of the VOC detections exceeded the applicable North Carolina Water Quality Standard (NCWQS) and the Federal Maximum Contaminant Level (MCL); there are no applicable standards for 1,1,2,2-tetrachloroethane.

Figures 6, 7, and 8 depict the vertical and horizontal extent of VOCs in groundwater at Sites 6 and 82 during the past three sampling initiatives. The three figures portray total VOC concentrations in excess of 1,000 µg/L. Although the relative size of the deeper plume appears to expand over time, the general orientation and location of the plume has remained consistent. The shallow VOC plume, best depicted in Figure 7, appears to vary in size over the three sampling periods. The interpretive dissimilarities between events may be the result of sample collection and analytical variability. In general though, the time-sequence figures accurately reflect the nature of VOCs in groundwater at Sites 6 and 82.

As presented in Figures 4 and 5, concentrations of VOCs in the deep aquifer are significantly higher than those in the shallow aquifer. These analytical results suggest that the identified VOCs have moved from the uppermost portion of the surficial aquifer to the deeper aquifer, with significant vertical and horizontal migration. The data also suggest that these compounds may have migrated to depths greater than 200 feet below ground surface within the deep aquifer. Tetrachloroethene was detected at an estimated concentration of 1.0 µg/L in the groundwater sample obtained from monitoring well GW01DB and trichloroethene was detected at 0.93 µg/L in GW01DA; the screened portion of both wells are greater than 230 feet below ground surface. Future sampling results will be used to confirm the presence of VOCs among groundwater samples obtained from depths greater than 200 feet below ground surface.

Table 8 provides a summary of VOC results from samples obtained during the past three sampling initiatives at Sites 6 and 82. Monitoring wells GW32 and GW34 have the most notable contaminant trends among groundwater samples obtained from the surficial aquifer. Concentrations of VOCs in GW32 samples have markedly decreased and VOC concentrations among GW34 samples have increased. Groundwater samples obtained from GW01D, screened from 102 to 112 feet below ground surface, have also exhibited an increasing trend of VOC concentrations. Each of the noted monitoring wells are situated within 100 feet of groundwater recovery wells, suggesting that the contaminants may be affected by extraction efforts. Future analytical results will be employed to determine whether contaminant concentrations are decreasing within the aquifer as a whole.

Metals

Metals were detected in each of the groundwater samples submitted for analysis from Sites 6 and 82. As presented in Table 6, aluminum, cadmium, iron, manganese, and thallium were the only metals detected at concentrations which exceeded either NCWQS or MCL. Aluminum was detected in 8 of the 28 groundwater samples at concentrations ranging from 235 to 3,240 µg/L, which exceeded the secondary MCL of 200 µg/L. Fifteen detections of iron ranging from 370 to 10,900 µg/L exceeded the NCWQS and secondary MCL of 300 µg/L. Three manganese detections, ranging in concentrations from 64 to 87 µg/L, exceeded the NCWQS and secondary MCL of 50 µg/L. Cadmium was detected only once among the 28 groundwater samples. The sample obtained from monitoring well GW03 had a cadmium concentration of 7.1 µg/L which exceeded the NCWQS and MCL of 5.0 µg/L.

Thallium was the only other total metal identified among groundwater samples from Sites 6 and 82 that exceeded an applicable water quality standard. Samples obtained from 16 of the monitoring wells had positive detections of thallium above the 2.0 µg/L MCL. Concentrations of thallium among the groundwater samples ranged from 2.7 to 5.2 µg/L. However, the associated laboratory method blank had a thallium concentration of 6.0 µg/L. The presence of thallium in the associated method blank and the lack of thallium detections among all previous sampling results, suggests that thallium is a laboratory artifact. For these reasons, thallium was not considered an actual site contaminant.

Aluminum, iron, and manganese have consistently been detected at concentrations exceeding applicable groundwater standards among the same samples obtained from Sites 6 and 82. As presented in Table 9, aluminum and iron have frequently been detected during the past three sampling initiatives at concentrations exceeding the NCWQS or secondary MCL. Soils found within the coastal plain of North Carolina are naturally rich in metals, particularly iron and manganese. The observed concentrations of iron and manganese, and to a lesser extent aluminum, in groundwater are due more to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods than to mobile metal concentrations in the aquifer. The presence of metals in groundwater is often the result of solids or colloids in the aqueous samples. The metals detected among groundwater samples may also be indicative of naturally occurring metals in the presence of acidic soils.

Total Suspended and Dissolved Solids

Total suspended solid (TSS) and total dissolved solid (TDS) analyses were also performed for each of the 28 groundwater samples. Dissolved solids were detected in each of the groundwater samples at concentrations ranging from 61 to 1,600 milligrams per liter (mg/L). Four of the positive TDS concentrations exceeded the NCWQS of 500 mg/L. Samples obtained from monitoring wells 82-MW02, GW01DB, GW38D, and GW40DW had TDS concentrations in excess of the NCWQS. Lastly, suspended solids were detected in only four of the samples at concentrations ranging from 4 to 15 mg/L.

TREATMENT SYSTEM EVALUATION

A groundwater extraction and treatment system has been operating at OU No. 2 since January 1996. The system was designed to collect and treat contaminated groundwater from the central portion of Site 82 and to mitigate the potential for off-site contaminant migration. As depicted in Figures 9 and 10, the treatment system currently includes six shallow recovery wells (SRW01 through SRW06) and four deep recovery wells (DRW01 through DRW04). Contaminated groundwater extracted via the network of shallow and deep recovery wells is treated to an applicable treatment criteria, then either reused for backwash or plant service and finally discharged to Wallace Creek.

The eight major processes that comprise the treatment system include: groundwater feed storage and equalization; initial pH adjustment; solids and metals removal; final pH adjustment; solids filtration; air stripping; granular activated carbon adsorption; and treated effluent storage, reuse, and discharge. The following assessment of treatment system components is based on monthly sampling results provided in Table 10 and monthly remedial system reports presented in Attachment D.

During the first calendar quarter of 1998, over 27.1 million gallons of contaminated groundwater were extracted and treated at OU No. 2. The treatment plant operated 1,469 hours, or 68 percent of the 2,160 hours possible. Routine maintenance, repairs, a faulty transmitter probe, and a pressure transmitter malfunction accounted for 86 hours of total downtime during the quarter. The remaining 605 hours of downtime, 25 days during March, were due to an exceedence of plant effluent limits. In response to the effluent exceedence, packing material in the air stripper was removed and washed. During the two previous quarters, total downtime has averaged less than 17 percent. During January and February all of the shallow and deep extraction wells remained operational. The average rate at which groundwater was extracted and treated, while operational, was 307 gallons per minute (gpm). During the previous two quarters average extraction rates of 349 and 291 gpm were achieved.

The observed extraction rate of groundwater from shallow recovery wells (i.e., wells set less than 35 feet below ground surface) is typically between four and eight gpm. Based upon the assumed extraction rates of between four and eight gpm, it may be presumed that groundwater was extracted from the uppermost portion of the shallow aquifer at between 24 and 48 gpm. The total number of gallons recovered from the surficial aquifer, therefore, would be between 8 to 16 percent of the total volume extracted. Based upon the assumed extraction rates, the approximate rate at which deep groundwater was extracted would be between 256 and 282 gpm and would account for the remaining 84 to 92 percent of the total volume. The average rate of groundwater extraction from each of the four deep recovery wells, assuming a uniform extraction rate, would therefore be between 64 and 71 gpm.

The effect of active groundwater extraction from the deep aquifer is clearly evident in Figure 3. An area of lesser potentiometric elevation has been created at depths of 95 to 115 feet below ground surface, over an area of approximately 9 to 16 acres. The observed area of influence appears to include the most highly contaminated portion of the VOC plume in the deep aquifer, which suggests that contaminated groundwater in the deep aquifer is indeed being extracted (refer to Figure 5). Based upon observed shallow potentiometric elevations, the same may not be stated regarding the shallow aquifer, however. Shallow recovery well SRW01 is located within the central portion of the shallow groundwater VOC plume, adjacent to monitoring well GW34. The most recent groundwater sample obtained from shallow monitoring well GW34 had nearly 12,000 µg/L of total VOCs. The remaining five shallow recovery wells are situated along the leading, downgradient edge of the shallow VOC plume (refer to Figure 4). The five shallow recovery wells are positioned to limit contaminant migration and intercept the VOC plume as it presumably travels in the direction of groundwater flow.

Monthly treatment system monitoring includes sample collection and analysis of plant influent, air stripper effluent, and plant effluent. Table 10 presents monthly sampling results obtained during January, February, and March 1998. Plant influent is comprised of two separate components, groundwater extracted from the uppermost portion of the surficial aquifer and groundwater extracted from the deeper aquifer. Based upon a constant input of an average influent concentration at the assumed extraction rates, approximately 36 and 3,130 pounds of volatile contaminants were extracted from the shallow and deep aquifers during the quarter, respectively. The average total influent concentrations of 1,375 µg/L and 15,681 µg/L from the shallow and deep aquifers were used to estimate the total weight of extracted contaminants.

Analytical results indicate that components of the treatment system are functioning effectively. Prior to the treatment plant being shut down in March, effluent samples obtained during each month of the quarter had detections of trichloroethene. Trichloroethene was detected at concentrations of 54, 58, and 46 µg/L in samples obtained from the plant effluent during January, February, and March, respectively. In addition, tetrachloroethene was detected at concentrations of 62 and 13 µg/L in the plant effluent during February and March. It is anticipated that air stripper maintenance, performed during March, will have considerably reduce or completely eliminated VOCs from treated effluent. Samples obtained in the future will be used to determine if any adjustments to the treatment process are necessary.

As presented in Table 10, influent to the plant contained the VOCs 1,2-dichloroethane, trans-1,2-dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride at concentrations exceeding applicable groundwater standards. In addition to VOCs, influent to the treatment plant contained metals, dissolved solids, and suspended solids. Barium, iron, and manganese were detected among samples obtained from the treatment system influent. As the results presented in Table 10 suggest, metals have also been reduced through treatment to levels below the applicable discharge limits.

RECOMMENDATIONS

The observations and findings presented in this quarterly report and a previous quarterly reports, form the basis upon which the following recommendations are provided. If non-significant changes are made to a component of the selected remedy described in the ROD (Baker, 1993), the changes must be recorded in a post-decision document file. If significant changes are made to a component of the selected remedy, the changes will need to be presented in an Explanation of Significant Differences document. The sections which follow describe recommendations which recently have been implemented and recommendations which are proposed for future consideration.

Implemented Recommendations

Detailed information pertaining to the implemented recommendations which follow has been presented in previous quarterly reports. The final disposition of past recommendations is presented here to update information regarding the monitoring program. The intent of this report and future reports is to provide a thorough description of proposed recommendations and a brief listing of implemented actions.

Survey Coordinates Verified

A select number of monitoring wells and all recovery wells were recently field verified using a global positioning system (GPS). Although only accurate to within roughly a meter, the GPS system was employed to verify that the original survey coordinates were correct. As a result of the field verification, survey coordinates of three suspect monitoring wells were updated. In addition to monitoring and recovery wells, a limited amount of supplemental survey information was also obtained from the site. During the period from 1992 through 1996 several new structures, unimproved roads, utilities, and fences were added to the study area. The GPS system was employed to supplement existing survey information with the significant changes that have occurred.

Well Security and Aesthetics

The bollards and well casings of several monitoring wells were painted during January 1998 with a weather resistant paint. The bollards and protective casings of several wells had developed peeling paint and rust. In addition, a number of padlocks used to secure the protective covers were either missing or no longer functioned properly. New padlocks that operate with a universal key were also be installed, as needed.

Proposed Recommendations

Based upon the observations and findings presented within this quarterly report and previous quarterly reports, the following recommendations are provided.

Commence Recovery Well Sampling

In order to provide a more detailed assessment of treatment system efficiency in the future, it is recommended that each shallow and deep recovery well be sampled periodically. Discrete groundwater samples may be obtained from each recovery well via an existing relief valve. A permanent sampling port, capable of limiting the flow of groundwater from the pressurized system, will need to be installed in order to obtain representative samples. It is recommended that groundwater samples be obtained at least once quarterly and submitted for volatile organic analyses only. Contaminant concentrations in groundwater extracted from each recovery well could then be determined, providing a measure of recovery well efficiency.

Modify Sample Analyses

Groundwater samples obtained from Sites 6 and 82 are currently submitted for metal, suspended solid, and dissolved solid analyses. And although a few select metals and dissolved solids have been detected at concentrations that exceed either the NCWQS or the MCL, the analyses are not required to monitor the nature, migration, or persistence of VOCs in groundwater. In addition, there is no history or evidence to suggest that metal disposal activities have occurred at Site 6.

As documented in this and previous monitoring reports, groundwater in the northern portion of Site 6 and over a majority of Site 82 is contaminated with VOCs. Since July 1996, the on-site treatment system has extracted and treated an average of nearly 10 million gallons of contaminated groundwater a month. In contrast, the metals aluminum, iron, and manganese have been detected among a vast majority of groundwater samples obtained throughout MCB, Camp Lejeune at concentrations exceeding applicable drinking water standards. The concentrations are, however, indicative of natural site conditions. In addition, the nearest raw water supply well is nearly 8 tenths of a mile to the north of Sites 6 and 82.

As presented in Table 9, aluminum and iron have frequently been detected during the past three sampling initiatives at concentrations exceeding the NCWQS or secondary MCL. However, soils found within the coastal plain of North Carolina are naturally rich in metals, particularly iron and manganese. The observed concentrations of iron and manganese, and to a lesser extent aluminum, in groundwater samples are due more to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods than to mobile metal concentrations in the aquifer. The metals detected among groundwater samples obtained from Sites 6 and 82 are indicative of naturally occurring metals in the presence of acidic soils. Based upon this information

and analytical data obtained during previous investigations, it is recommended that metals, suspended solid, and dissolved solid analyses be eliminated from the monitoring program.

Modify Sampling Scheme

As presented in this and previous monitoring reports, one primary area of groundwater contamination within Site 82 has been identified and is actively undergoing treatment. Based upon analytical data accumulated during the three consecutive sampling initiatives, a number of adjustments to the monitoring program are recommended. The adjustments are intended to limit future data requirements, in support of the selected remedial alternative, to only those that are the most pertinent and necessary.

Based upon analytical data accumulated during the three sampling initiatives, it is recommended that monitoring wells GW02DW, GW17, GW21, GW30DW, and GW40DWA be eliminated from the monitoring program. No VOCs have been detected among samples obtained from the five monitoring wells during three consecutive sampling events. A fourth set of data will also be evaluated to confirm the lack of VOCs among samples obtained from these monitoring wells.

Based upon the relative locations and total depths of nine deep monitoring wells, it is recommended that a sampling frequency modification be initiated. Monitoring wells GW01DA, GW01DB, MW03D, GW15D, GW27DA, GW36D, GW35D, GW38D, and GW40DW are situated either below or adjacent to known groundwater contamination. However, very low concentrations or no VOCs have been detected among samples obtained from these wells during the monitoring program. It is therefore recommended that the frequency of sample collection from the wells be reduced from quarterly (i.e., four times per year) to annual (i.e., once per year).

Install New and Replacement Shallow Monitoring Wells

Monitoring well GW16, along with two nearby monitoring wells, was abandoned prior to commencement of a military construction project between Lots 201 and 203. As indicated in this and previous monitoring reports, groundwater samples obtained from GW16 have exhibited total VOCs at concentrations greater than 1,000 µg/L during the past three sampling initiatives. It is therefore recommended that upon completion of the military construction project, monitoring well GW16 be replaced. During the interim, no groundwater samples will be submitted for laboratory analyses from this portion of the site. There are no plans to replace the other two monitoring wells that were also abandoned.

It is recommended that three additional shallow monitoring wells be installed to more accurately define the horizontal extent of shallow groundwater contamination in the central portion of Site 82. The shallow groundwater contaminant plume depicted in Figure 4 is based upon positive VOC detections that are separated by over 1,000 feet. Based upon the size and position of the deep groundwater plume, it has been assumed that the shallow groundwater plume encompasses the central portion of Site 82. A closer spacing of monitoring wells will provide a more accurate estimate of shallow plume geometry.

REFERENCES

Baker Environmental, Inc. (Baker). September 1993. Record of Decision for Operable Unit No. 2 (Sites 6, 9, and 82). 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. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

Well No.	Date 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)	Sand Pack Interval Depth (feet, bgs)	Bentonite Interval Depth (feet, bgs)	Stick-Up (feet, ags)
06-GW01	10-21-86	35.18	32.7	25	25	5.0 - 25.0	3.0 - 25.0	2.0 - 3.0	2.48
06-GW01D	11-07-92	35.31	32.8	117	113	102.7 - 111.7	99.5 - 117.0	96.0 - 99.5	2.51
06-GW01DA	04-03-93	35.23	32.7	230	230	220.0 - 230.0	215.0 - 230.0	190.0 - 230.0	2.53
06-GW01DB	09-10-93	NA	NA	263	262	247.0 - 262.0	240.0 - 263.0	234.0 - 240.0	2.50
06-GW02DW	11-07-92	37.61	35.1	122	122	108.1 - 118.1	105.0 - 122.0	101.0 - 105.0	2.51
06-GW03	10-24-86	31.32	28.8	26	25	5.0 - 25.5	3.0 - 25.5	2.0 - 3.0	2.52
06-MW03D	03-31-93	35.18	34.2	202	118	97.6 - 117.6	94.0 - 118.0	898.0 - 94.0	0.98
06-GW15D	04-06-93	28.0	25.2	160	155	145.0 - 155.0	141.0 - 155.0	139.0 - 141.0	2.80
06-GW16	11-07-92	27.63	24.9	20	20	5.4 - 19.8	3.0 - 20.0	1.6 - 3.0	2.73
06-GW17	09-25-92	28.10	25.7	19	18	2.3 - 17.1	1.5 - 18.5	0.5 - 1.5	2.40
06-GW21	09-24-92	30.30	27.9	24	23	8.0 - 22.0	6.0 - 24.0	4.5 - 6.0	2.40
06-GW27DW	10-12-92	24.47	22.5	112	110	100.1 - 109.1	97.0 - 112.0	94.5 - 97.0	1.97
06-GW27DA	08-13-93	NA	NA	236	236	226.0 - 236.0	224.0 - 236.0	100.0 - 224.0	2.5
06-GW28	10-10-92	30.20	27.6	33	32	17.5 - 31.7	15.0 - 32.5	13.3 - 15.0	2.60
06-GW28DW	10-20-92	31.74	28.7	115	115	104.7 - 113.6	99.0 - 115.0	95.0 - 99.0	3.04
06-GW30	11-07-92	12.60	9.9	21	20	5.3 - 19.7	3.0 - 21.0	1.5 - 3.0	2.70
06-GW30DW	03-04-93	11.90	9.9	162	100	89.6 - 99.6	83.0 - 100.0	76.5 - 83.0	2.00
06-GW32	04-01-93	21.79	19.6	27	27	11.0 - 26.0	10.0 - 27.0	7.0 - 10.0	2.19
06-GW33	04-01-93	22.42	20.0	22	22	6.0 - 21.0	4.5 - 22.0	3.0 - 4.5	2.42
06-GW34	03-05-93	32.01	29.0	36	35	19.0 - 34.0	17.5 - 35.0	15.0 - 17.5	3.01
06-GW35D	03-07-93	14.29	12.0	201	105	95.0 - 105.0	90.0 - 105.0	87.0 - 90.0	2.29
06-GW36D	04-01-93	17.61	15.6	202	95	75.0 - 95.0	66.0 - 95.0	62.0 - 66.0	2.01
06-GW37D	04-01-93	15.96	14.0	112	95	75.0 - 95.0	73.0 - 95.0	70.0 - 73.0	1.96

TABLE 1 (Continued)

SUMMARY OF WELL CONSTRUCTION DETAILS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Well No.	Date 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)	Sand Pack Interval Depth (feet, bgs)	Bentonite Interval Depth (feet, bgs)	Stick-Up (feet, ags)
06-GW38D	08-28-93	NA	NA	277	275	255.0 - 275.0	253.0 - 277.0	248.0 - 253.0	2.50
06-GW40DW	12-06-94	NA	NA	120	116	100.0 - 115.0	92.0 - 120.0	87.0 - 92.0	2.50
06-GW40DWA	12-04-94	NA	NA	250	246	230.0 - 245.0	225.0 - 250.0	198.0 - 225.0	2.50
82-MW02	06-17-91	6.28	3.71	13	13	3.0 - 13.0	2.0 - 13.0	2.0 - 1.0	2.57
82-MW03	06-18-91	24.57	21.98	22	21	11.0 - 21.0	9.0 - 21.5	7.0 - 9.0	2.59

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. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (μ mhos/cm)	Temperature ($^{\circ}$ C)	pH (S.U.)	Turbidity (N.T.U.)
06-GW01 (01/15/98)	1545	1.0	4.5	400	17.1	6.86	1.9
	1552	2.0	5.0	397	16.8	6.84	2.2
	1559	3.0	4.0	397	16.9	6.81	1.9
	1606	4.0	4.0	397	17.0	6.86	1.1
06-GW01D (01/15/98)	1451	1.0	0.3	615	17.5	6.81	5.5
	1500	2.0	0.3	618	18.1	6.93	2.3
	1510	3.0	0.3	619	18.1	6.93	2.2
06-GW01DA (01/15/98)	1058	1.0	1.1	308	17.2	7.61	20
	1106	1.5	1.3	293	17.1	7.62	9.7
	1140	2.0	1.1	294	17.1	7.71	9.0
	1210	2.5	1.2	299	16.9	7.77	7.5
	1330	3.0	1.2	295	16.9	7.74	6.8
06-GW01DB (01/15/98)	0950	1.0	1.6	1191	17.2	8.15	119
	1017	1.5	2.3	1149	17.7	8.37	37
	1035	2.0	3.0	1127	17.9	8.42	33
	1054	2.5	1.0	1122	18.2	8.45	20
	1113	3.0	1.2	1133	18.2	8.48	13
06-GW02D (01/17/98)	0832	1.0	0.5	245	15.8	8.02	5.6
	0857	1.5	0.3	252	17.4	8.12	4.0
	0917	2.0	0.4	252	16.0	8.07	4.1
	0940	2.5	0.4	255	17.2	8.06	0.1
	0958	3.0	0.4	256	16.6	8.11	0.19
06-GW03 (01/15/98)	1730	1.0	2.5	244	17.4	5.67	3.3
	1740	2.0	0.6	245	18.1	5.83	1.9
	1746	3.0	0.8	241	17.9	5.91	1.3
06-MW03D (01/17/98)	1143	1.0	1.5	219	17.7	8.17	21
	1152	1.5	1.0	219	17.3	8.19	16
	1200	2.0	1.3	220	17.7	8.21	8.8
	1208	2.5	1.3	218	17.6	8.21	6.1
	1216	3.0	1.5	217	17.0	8.19	3.8
06-GW15D (01/19/98)	0752	2.0	2.2	207	14.4	7.05	0.8
	0800	2.3	2.3	199	15.8	8.59	2.6
	0837	2.5	2.0	197	15.9	8.54	1.3
	0909	2.6	2.4	194	15.9	8.58	0.7
	0943	3.0	2.5	193	15.9	8.56	0.7

TABLE 2 (Continued)

SUMMARY OF GROUNDWATER FIELD PARAMETERS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (µmhos/cm)	Temperature (°C)	pH (S.U.)	Turbidity (N.T.U.)
06-GW16 (01/19/98)	1123	1.0	2.8	98	14.9	6.72	32
	1146	1.5	2.5	99	14.9	6.29	27
	1208	2.0	2.3	105	14.9	6.04	21
	1233	2.5	1.9	111	14.8	5.93	17
	1256	3.0	2.0	115	14.8	5.90	15
06-GW17 (01/17/98)	1633	1.0	2.4	230	14.8	5.19	27
	1646	1.5	2.3	225	15.2	5.31	32
	1658	2.0	2.3	221	15.1	2.29	31
	1710	2.5	2.4	218	15.2	5.33	29
	1722	3.0	2.4	215	15.1	5.34	27
06-GW21 (01/18/98)	0755	1.0	3.1	77	14.8	4.06	4.8
	0804	1.5	2.8	76	15.9	4.04	4.5
	0813	2.0	2.9	78	14.8	4.01	3.3
	0822	2.5	3.0	78	14.7	4.05	3.3
	0831	3.0	2.9	78	14.8	4.02	3.2
06-GW27DA (01/17/98)	1448	1.0	0.8	655	17.6	9.46	25
	1522	1.5	0.4	666	18.6	9.46	9.0
	1556	2.0	0.8	685	18.8	9.42	4.7
	1630	2.5	0.9	690	18.9	9.37	2.8
	1704	3.0	0.8	690	18.8	9.36	3.0
06-GW27DW	0739	1.0	1.5	287	16.3	8.33	9.8
	0803	1.5	1.3	264	17.3	8.35	0.7
	0832	2.0	1.6	259	17.1	8.31	0.5
	0856	2.5	1.5	262	17.1	8.27	0.8
	0922	3.0	1.8	254	17.1	8.25	0.7
06-GW28 (01/16/98)	1420	1.0	1.6	103	16.1	5.48	0.7
	1440	2.0	1.8	102	17.0	5.49	0.9
	1500	3.0	1.8	102	16.9	5.46	0.7
06-GW28DW (01/16/98)	1350	1.0	0.3	288	17.0	8.04	0.1
	1404	1.5	0.3	264	17.5	8.03	0.1
	1420	2.0	0.4	250	16.8	7.98	0.1
	1435	2.5	0.4	256	16.9	7.95	0.1
	1448	3.0	0.3	255	17.1	7.99	0.1
06-GW30 (01/17/98)	0958	1.0	1.7	141	15.6	6.05	3.5
	1020	2.0	1.8	135	15.7	6.02	1.7
	1045	3.0	1.8	140	15.9	5.98	1.9

TABLE 2 (Continued)

SUMMARY OF GROUNDWATER FIELD PARAMETERS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (μ mhos/cm)	Temperature ($^{\circ}$ C)	pH (S.U.)	Turbidity (N.T.U.)
06-GW30DW (01/17/98)	0918	1.0	0.9	311	15.8	7.41	0.8
	0934	1.5	1.1	308	15.7	7.57	0.8
	0956	2.0	1.0	299	15.9	7.60	0.8
	1018	2.5	0.8	299	16.0	7.61	0.7
	1040	3.0	0.8	312	16.1	7.60	1.1
06-GW32 (01/16/98)	1016	1.0	2.3	83	16.2	4.90	1.1
	1027	2.0	2.5	86	16.5	5.04	1.5
	1040	3.0	2.4	85	16.5	5.05	1.1
06-GW33	0832	1.0	3.9	114	15.3	4.21	5.2
	0844	2.0	4.1	111	15.6	4.33	1.9
	0854	3.0	4.0	110	15.7	4.32	1.9
06-GW34 (01/16/98)	1122	1.0	2.8	233	17.8	4.04	0.7
	1135	2.0	3.0	237	18.0	3.87	0.9
	1148	3.0	3.1	233	18.0	3.91	0.6
06-GW35D (01/18/98)	1539	1.0	1.1	347	15.6	6.46	0.7
	1556	1.5	1.0	341	16.7	7.15	0.7
	1616	2.0	1.0	348	16.7	7.32	0.7
	1636	2.5	0.8	343	17.0	7.38	0.7
	1656	3.0	0.9	344	17.0	7.40	0.6
06-GW36D (01/19/98)	1118	1.0	1.3	301	14.5	7.47	0.3
	1150	2.0	1.7	302	15.6	7.41	0.7
	1205	2.5	1.6	300	16.1	7.4	0.6
	1220	3.0	1.6	303	16.0	7.4	0.6
06-GW37D (01/19/98)	0822	1.0	1.8	280	15.6	7.43	0.6
	0838	1.5	1.8	261	16.0	7.50	0.6
	0900	2.0	1.8	268	16.4	7.46	0.6
	0922	2.5	1.7	263	16.2	7.47	0.6
	0944	3.0	1.8	261	16.3	7.48	0.3
06-GW38D (01/15/98)	1006	1.0	0.3	756	18.0	8.81	0.1
	1035	1.5	0.3	778	18.3	8.88	0.0
	1111	2.0	0.3	817	18.4	9.02	2.6
	1147	2.5	0.2	825	18.5	9.06	0.0
	1210	3.0	0.3	819	18.4	9.05	0.0

TABLE 2 (Continued)

SUMMARY OF GROUNDWATER FIELD PARAMETERS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (μ mhos/cm)	Temperature ($^{\circ}$ C)	pH (S.U.)	Turbidity (N.T.U.)
06-GW40DW	1100	1.0	1.8	274	16.2	8.05	8.3
	1117	2.0	1.0	271	16.3	8.16	7.6
	1123	3.0	1.3	266	17.2	8.23	6.7
	1133	4.0	1.5	270	16.2	8.23	5.2
06-GW40DWA (01/18/98)	1355	1.0	1.1	2324	17.1	8.64	100
	1430	1.5	1.5	2470	18.8	8.73	88
	1510	2.0	1.6	2473	18.4	8.68	66
	1550	2.5	1.0	2485	18.1	8.69	57
	1630	3.0	1.3	2489	18.1	8.72	32
82-MW02 (01/17/98)	1155	1.0	3.4	905	13.4	5.79	14
	1208	2.0	3.6	920	13.5	5.85	4.0
	1221	3.0	3.5	928	13.5	5.90	2.9
82-MW03 (01/17/98)	1450	1.0	1.5	156	16.0	5.06	3.8
	1456	2.0	2.3	154	16.0	5.06	2.0
	1501	3.0	1.5	158	16.1	4.91	1.3

Notes:

- $^{\circ}$ C = Degrees Centigrade
- S.U. = Standard Units
- mg/L = milligrams per liter
- μ mhos/cm = micro ohms per centimeter
- ppt = Parts per Thousand
- N.T.U. = Nephelometric Turbidity Units
- mV = millivolt
- NA = Not Analyzed

TABLE 3

**GROUNDWATER SAMPLING SUMMARY
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

Location	Media	CLP Volatiles ⁽¹⁾	CLP Metals ⁽²⁾	Total Dissolved Solids ⁽³⁾	Total Suspended Solids ⁽³⁾	Laboratory Sample Identification
06-GW01	GW	X	X	X	X	IR06-GW01-98A
06-GW01D	GW	X	X	X	X	IR06-GW01D-98A
06-GW01DA	GW	X	X	X	X	IR06-GW01DA-98A
06-GW01DB	GW	X	X	X	X	IR06-GW01DB-98A
06-GW02DW	GW	X	X	X	X	IR06-GW02DW-98A
06-GW03	GW	X	X	X	X	IR06-GW03-98A
06-MW03D	GW	X	X	X	X	IR06-GW03D-98A
06-GW15D	GW	X	X	X	X	IR06-GW15D-98A
06-GW16	GW	X	X	X	X	IR06-GW16-98A
06-GW17	GW	X	X	X	X	IR06-GW17-98A
06-GW21	GW	X	X	X	X	IR06-GW21-98A
06-GW27DW	GW	X	X	X	X	IR06-GW27DW-98A
06-GW27DA	GW	X	X	X	X	IR06-GW27DA-98A
06-GW28S	GW	X	X	X	X	IR06-GW28S-98A
06-GW28DW	GW	X	X	X	X	IR06-GW28DW-98A
06-GW30	GW	X	X	X	X	IR06-GW30-98A
06-GW30DW	GW	X	X	X	X	IR06-GW30DW-98A
06-GW32	GW	X	X	X	X	IR06-GW32-98A
06-GW33	GW	X	X	X	X	IR06-GW33-98A
06-GW34	GW	X	X	X	X	IR06-GW34-98A
06-GW35D	GW	X	X	X	X	IR06-GW35D-98A
06-GW36D	GW	X	X	X	X	IR06-GW36D-98A
06-GW37D	GW	X	X	X	X	IR06-GW37D-98A
06-GW38D	GW	X	X	X	X	IR06-GW38D-98A
06-GW40DW	GW	X	X	X	X	IR06-GW40DW-98A
06-GW40DWA	GW	X	X	X	X	IR06-GW40DWA-98A
82-MW02	GW	X	X	X	X	IR06-82GW02-98A
82-MW03	GW	X	X	X	X	IR06-82GW03-98A

Notes:

- (1) Volatiles by U.S. Environmental Protection Agency, Contract laboratory Program, Statement of Work, Document Number OLM01.8.
- (2) Metals by U.S. Environmental Protection Agency, Contract Laboratory Protocol, Statement of Work, Document Number ILM03.0.
- (3) Total Suspended and Dissolved Solids by Solid Waste Method 160.1 and 160.2.

X = Requested analysis
GW = Groundwater

TABLE 4

**SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

Well ID	Reference Elevation ⁽¹⁾	SWE 08/05/97	SWE 10/29/97	SWL 01/23/98	SWE 01/23/98
06-GW01	35.18	13.83	NA	20.28	14.90
06-GW01D	35.31	6.55	3.41	30.91	4.40
06-GW01DA	35.23	5.68	3.73	30.52	4.71
06-GW01DB	NS	NA	NA	29.81	NA
06-GW02	38.37	23.9	NA	NA	NA
06-GW02D	37.61	15.04	NA	21.82	15.79
06-GW03	31.32	14.27	13.88	15.99	15.33
06-GW04	27.99	20.66	20.07	5.90	22.09
06-GW06	26.74	19.79	19.29	4.84	21.90
06-GW07	17.83	12.75	12.39	3.44	14.39
06-GW07DW	20.08	12.73	12.52	5.70	14.38
06-GW08	22.35	15.93	15.63	4.06	18.29
06-GW11	35.05	18.47	15.23	19.03	16.02
06-GW12	18.29	13.04	12.85	3.74	14.55
06-GW13	20.1	13.94	13.79	3.82	16.28
06-GW15D	28	7.83	6.24	20.68	7.32
06-GW16	27.63	20.33	20.29	NA	NA
06-GW17	28.1	20.75	20.22	5.00	23.10
06-GW21	30.3	17.09	16.78	12.06	18.24
06-GW23	26.96	19.36	18.75	6.27	20.69
06-GW26	23.66	12.21	11.97	10.78	12.88
06-GW27DW	24.47	1.67	0.02	21.64	2.83
06-GW27DA	NS	NA	NA	23.66	NA
06-GW28	30.2	6.64	5.93	22.38	7.82
06-GW28DW	31.74	4.2	-0.89	31.40	0.34
06-GW30	12.6	6.29	6.54	4.50	8.10
06-GW30DW	11.9	9.13	7.54	3.36	8.54
06-GW31	30.26	19.08	18.39	12.93	17.33
06-GW32	21.79	4.16	3.94	16.40	5.39
06-GW33	22.42	10.12	9.58	10.75	11.67
06-GW34	32.01	10.53	9.96	20.02	11.99
06-GW35D	14.29	4.67	4.32	9.59	4.70
06-GW36D	17.61	7.63	6.79	9.80	7.81
06-GW37D	15.96	5.59	5.22	10.20	5.76
06-GW38D	31.89	8.6	8.66	23.07	8.82
06-GW40DW	19.07	2.7	0.76	17.36	1.71

TABLE 4 (Continued)

**SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

Well ID	Reference Elevation ⁽¹⁾	SWE 08/05/97	SWE 10/29/97	SWL 01/23/98	SWE 01/23/98
06-GW40DWA	28.26	12.87	11.36	16.31	11.95
06-MW03	31.32	25.19	14.42	4.71	26.61
06-MW03D	35.18	13.69	13.04	20.63	14.55
82-MW02	6.03	0.68	1.23	4.16	1.87
82-MW03	24.31	7.8	7.41	14.70	9.61
82-MW30	32.19	21.28	22.21	NA	NA

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.

NS - Not surveyed

NA - Not applicable or data not available.

TABLE 5

TRIP BLANK ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-TB01-98A	IR06-TB02-98A
DATE SAMPLED	01-15-1998	01-19-1998
VOLATILES (ug/L)		
1,1,1-Trichloroethane	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U
1,1-Dichloroethane	5 U	5 U
1,1-Dichloroethene	5 U	5 U
1,2-Dichloroethane	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U
1,2-Dichloropropane	5 U	5 U
2-Butanone	20 U	20 U
2-Hexanone	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U
Acetone	20 U	20 U
Benzene	5 U	5 U
Bromodichloromethane	5 U	5 U
Bromoform	5 U	5 U
Bromomethane	10 U	10 U
Carbon disulfide	5 U	5 U
Carbon tetrachloride	5 U	5 U
Chlorobenzene	5 U	5 U
Chloroethane	10 U	10 U
Chloroform	5 U	5 U
Chloromethane	10 U	10 U
cis-1,3-Dichloropropene	5 U	5 U
Dibromochloromethane	5 U	5 U
Ethylbenzene	5 U	5 U
Methylene chloride	6.7 B	2.7 JB
Styrene	5 U	5 U
Tetrachloroethene	5 U	5 U
Toluene	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U
Trichloroethene	5 U	5 U
Vinyl chloride	10 U	10 U
Xylenes (total)	5 U	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. 2 - SITES 6 AND 82
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	1,1,2,2-Tetrachloroethane	NE	NE	11,000	11,000	06-GW34	1/28	NA	NA
	1,1,2-Trichloroethane	NE	5.0	58	58	06-GW34	1/28	NA	1
	1,2-Dichloroethene (total) ⁽¹⁾	70	70	4.6 J	36,000	06-GW01D	8/28	5	5
	Benzene	1.0	5.0	6.9	6.9	06-GW37D	1/28	1	1
	Chlorobenzene	50	100	2,900	2,900	06-GW16	1/28	1	1
	Chloroform	0.19	100.0	0.86 J	0.86 J	06-GW03	1/28	1	0
	Tetrachloroethene	0.7	5.0	1.0 J	2,000 J	06-GW01D	9/28	9	4
	Trichloroethene	2.8	5.0	0.93 J	170,000	06-GW01D	8/28	7	7
Vinyl Chloride	0.015	2.0	27	27	06-GW37D	1/28	1	1	
Total Metals	Aluminum	NE	200 ⁽²⁾	29.3	3,240	82-MW02	28/28	NA	8
	Arsenic	50	50	10 J	10 J	82-MW02	1/28	0	0
	Barium	2,000	2,000	1.7 J	96.8 J	06-GW34	26/28	0	0
	Beryllium	NE	4	0.36 J	0.99 J	82-MW03	2/28	NA	0
	Cadmium	5.0	5.0	7.1	7.1	06-GW03	1/28	1	1
	Chromium	50	100	3.4 J	7.9 J	06-GW01D	11/28	0	0
	Copper	1,000	1,300	2.4 J	7.3 J	06-GW01	9/28	0	0
	Iron	300	300 ⁽²⁾	5.3 J	10,900	82-MW02	25/28	15	15
	Lead	15	15	1.4 J	2.3 J	06-GW16	4/28	0	0
	Manganese	50	50 ⁽²⁾	1.0 J	87	82-MW03	28/28	3	3
	Mercury	1.1	2.0	0.073 J	0.18 J	06-GW34	27/28	0	0
	Nickel	100	100	9.7 J	11.5 J	06-GW30	3/28	0	0
	Selenium	50	50	7.4	27.3	06-GW01	3/28	0	0
	Thallium ⁽³⁾	NE	2.0	2.7 J	5.2 J	82-MW03	16/28	NA	16
Zinc	2,100	5,000 ⁽²⁾	3.3 J	815	06-GW03	28/28	0	0	

TABLE 6 (Continued)

**SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 2 - SITES 6 AND 82
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
Wet	Total Dissolved Solids	500	500 ⁽²⁾	61	1,600	06-GW40DWA	28/28	4	4
Chemistry	Total Suspended Solids	NE	NE	4	15	06-GW40DWA	4/28	NA	NA

Notes:

Organic and Metal concentrations presented in micrograms per liter ($\mu\text{g/L}$) or parts per billion.

Wet chemistry concentrations presented in milligrams per liter (mg/L) or parts per million.

⁽¹⁾ Screening Standards for 1,2-Dichloroethene (total) from the lower isomer, cis-1,2-Dichloroethene.

⁽²⁾ Secondary Federal Maximum Contaminant Level (Refer to MCL Note Below).

⁽³⁾ - Thallium was detected in the associated method blank at an estimated concentration of 6.0 $\mu\text{g/L}$.

B = Organics: Method Blank Contamination.
Inorganics: Estimated Result.

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. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

SAMPLE ID	IR06-82GW02-98A	IR06-82GW03-98A	IR06-GW01-98A	IR06-GW01D-98A	IR06-GW01DA-98A	IR06-GW01DB-98A	IR06-GW02DW-98A
DATE SAMPLED	01-17-1998	01-17-1998	01-15-1998	01-15-1998	01-15-1998	01-15-1998	01-17-1998
VOLATILES (ug/L)							
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U	5 U	36000	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Methylene chloride	2.3 JB	1.9 JB	7 B	2300 JB	2.6 JB	5.9 B	2.5 JB
Tetrachloroethene	5 U	1.1 J	2.8 J	2000 J	5 U	1 J	5 U
Trichloroethene	5 U	5 U	5 U	170000	0.93 J	5 U	5 U
Vinyl chloride	10 U	10 U	10 U	10000 U	10 U	10 U	10 U
TOTAL METALS (ug/L)							
Aluminum	180 B	3240	36.5 B	35.1 B	77.8 B	235	64.5 B
Arsenic	10 B	10 U	10 U	10 U	10 U	10 U	10 U
Barium	40.4 U	55.6 B	45.4 B	28.4 B	3.8 B	1.7 B	5.4 B
Beryllium	5 U	0.99 B	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	123000	2980 B	82500	137000	43900	9590	66900
Chromium	6.2 B	10 U	5.9 B	7.9 B	5.2 B	10 U	4.6 B
Copper	25 U	25 U	7.3 B	25 U	25 U	25 U	25 U
Iron	10900	1030	18.2 B	1020	92 B	167	455
Lead	3 U	1.4 B	3 U	3 U	3 U	3 U	3 U
Magnesium	9600	4520 B	5220	3140 B	3710 B	2870 B	1500 B
Manganese	63.8	87	1.5 B	38.4	19.6	2.4 B	9.1 B

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-82GW02-98A	IR06-82GW03-98A	IR06-GW01-98A	IR06-GW01D-98A	IR06-GW01DA-98A	IR06-GW01DB-98A	IR06-GW02DW-98A
DATE SAMPLED	01-17-1998	01-17-1998	01-15-1998	01-15-1998	01-15-1998	01-15-1998	01-17-1998
TOTAL METALS (ug/L)							
Mercury	0.077 B	0.086 B	0.076 B	0.084 B	0.073 B	0.089 B	0.088 B
Nickel	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	5000 U	853 B	5550	1710 B	10800	12900	997 B
Selenium	5 U	5 U	27.3	5 U	5 U	5 U	5 U
Sodium	83100	6840	7980	4860 B	26900	286000	4190 B
Thallium	4 B	5.2 B	10 U	10 U	10 U	4.7 B	4.2 B
Vanadium	26.5 B	11.1 B	24.7 B	30.1 B	18.1 B	12.1 B	20.6 B
Zinc	12.6 B	48.3	4.1 B	7.7 B	30.5	40.1	15.8 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	620	94	260	420	190	730	180
Total Suspended Solids	4 U	4 U	4 U	4 U	7	4	4 U

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-GW03-98A	IR06-GW03D-98A	IR06-GW15D-98A	IR06-GW16-98A	IR06-GW17-98A	IR06-GW21-98A	IR06-GW27DA-98A
DATE SAMPLED	01-15-1998	01-17-1998	01-19-1998	01-19-1998	01-17-1998	01-18-1998	01-17-1998
VOLATILES (ug/L)							
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	4.6 J	5 U	5 U	100 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	2900	5 U	5 U	5 U
Chloroform	0.86 J	5 U	5 U	100 U	5 U	5 U	5 U
Methylene chloride	6.9 B	5 U	1.2 JB	34 JB	5 U	2.2 JB	2.3 JB
Tetrachloroethene	1.3 J	5 U	5 U	100 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Vinyl chloride	10 U	10 U	10 U	200 U	10 U	10 U	10 U
TOTAL METALS (ug/L)							
Aluminum	58.1 B	157 B	48.4 B	1480	3050	352	120 B
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	51.1 B	7.4 B	2.9 B	24.7 B	70.1 B	41.1 B	4 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	0.36 B
Cadmium	7.1	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	42600	56500	45400	9550	35200	5810	6820
Chromium	10 U	10 U	10 U	10 U	6.2 B	10 U	10 U
Copper	2.4 B	25 U	25 U	6.6 B	25 U	4.2 B	2.8 B
Iron	6.9 B	1070	299	783	1030	56.7 B	56.9 B
Lead	3 U	3 U	3 U	2.3 B	1.7 B	3 U	3 U
Magnesium	3380 B	1130 B	945 U	987 B	821 B	1430 B	974 B
Manganese	3 B	22.9	12.3 B	63	5.3 B	10.1 B	1.2 B

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-GW03-98A	IR06-GW03D-98A	IR06-GW15D-98A	IR06-GW16-98A	IR06-GW17-98A	IR06-GW21-98A	IR06-GW27DA-98A
DATE SAMPLED	01-15-1998	01-17-1998	01-19-1998	01-19-1998	01-17-1998	01-18-1998	01-17-1998
TOTAL METALS (ug/L)							
Mercury	0.12 B	0.084 B	0.084 B	0.082 B	0.083 B	0.077 B	0.16 B
Nickel	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	5180	749 B	5000 U	958 B	5000 U	5000 U	9180
Selenium	7.4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	5130	3990 B	3660 B	11800	10500	6820	156000
Thallium	3.9 B	10 U	2.8 B	10 U	10 U	10 U	10 U
Vanadium	18.4 B	19.5 B	21.1 B	16.9 B	25.4 B	14.6 B	13.8 B
Zinc	815	12 B	24	303	24.6	12.3 B	12 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	170	150	130	100	180	66	440
Total Suspended Solids	4 U	4 U	4 U	10	4 U	4 U	4 U

U = Not detected
 B = Detected in Blank (organics) or estimated result (inorganics)
 J = Estimated Result
 ND = Not detected
 ug/L = micrograms per liter
 mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-GW27DW-98A	IR06-GW28-98A	IR06-GW28DW-98A	IR06-GW30-98A	IR06-GW30DW-98A	IR06-GW32-98A	IR06-GW33-98A
DATE SAMPLED	01-18-1998	01-16-1998	01-16-1998	01-17-1998	01-17-1998	01-16-1998	01-16-1998
VOLATILES (ug/L)							
1,1,2,2-Tetrachloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	4400	12	1400	5 U	5 U	9.8	5 U
Benzene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Chlorobenzene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Chloroform	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Methylene chloride	25 JB	6.5 B	160 B	2.2 JB	2.5 JB	3.9 JB	6.3 B
Tetrachloroethene	100 U	24	49 J	5 U	5 U	2.1 J	5 U
Trichloroethene	3500	39	4100	5 U	5 U	26	5 U
Vinyl chloride	200 U	10 U	250 U	10 U	10 U	10 U	10 U
TOTAL METALS (ug/L)							
Aluminum	66.1 B	57.4 B	31.4 B	64 B	79.8 B	67.8 B	586
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	6.8 B	20.3 B	6.8 B	7.7 B	3.8 B	23 B	61.1 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	64900	8370	63300	22400	71600	8120	1470 B
Chromium	3.8 B	10 U	5.6 B	10 U	5.6 B	10 U	10 U
Copper	5.8 B	2.6 B	25 U	25 U	7 B	25 U	3.4 B
Iron	526	100 U	709	220	1220	100 U	65.9 B
Lead	1.7 B	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium	1300 B	1760 B	1310 B	1860 B	1590 B	1870 B	3410 B
Manganese	9.9 B	9.9 B	16	27.2	35.5	5.7 B	10.6 B

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-GW27DW-98A	IR06-GW28-98A	IR06-GW28DW-98A	IR06-GW30-98A	IR06-GW30DW-98A	IR06-GW32-98A	IR06-GW33-98A
DATE SAMPLED	01-18-1998	01-16-1998	01-16-1998	01-17-1998	01-17-1998	01-16-1998	01-16-1998
TOTAL METALS (ug/L)							
Mercury	0.15 B	0.093 B	0.086 B	0.08 B	0.094 B	0.087 B	0.084 B
Nickel	40 U	40 U	10 B	11.5 B	40 U	40 U	40 U
Potassium	852 B	1100 B	1490 B	922 B	1090 B	641 B	5000 U
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	4390 B	10000	4770 B	6130	6160	7170	10800
Thallium	4.4 B	3.3 B	10 U	3 B	4.2 B	10 U	10 U
Vanadium	24.6 B	12.4 B	17.6 B	15.7 B	23.3 B	9.8 B	10.6 B
Zinc	17.7 B	10.6 B	4.6 B	99.7	16.6 B	16.8 B	7.2 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	180	65	180	93	180	61	64
Total Suspended Solids	4 U	4 U	4 U	4 U	4 U	4 U	4 U

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

POSITIVE DETECTIONS IN GROUNDWATER
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR06-GW34-98A	IR06-GW35D-98A	IR06-GW36D-98A	IR06-GW37D-98A	IR06-GW38D-98A	IR06-GW40DW-98A	IR06-GW40DWA-98A
DATE SAMPLED	01-16-1998	01-18-1998	01-19-1998	01-19-1998	01-16-1998	01-18-1998	01-18-1998
VOLATILES (ug/L)							
1,1,2,2-Tetrachloroethane	11000	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	58	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	200	5 U	5 U	260	5 U	5 U	5 U
Benzene	25 U	5 U	5 U	6.9	5 U	5 U	5 U
Chlorobenzene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	35 B	2.1 JB	2.5 JB	2.2 JB	1.5 JB	1.5 JB	2.6 JB
Tetrachloroethene	120	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	510	5 U	5 U	6.5	5 U	5 U	5 U
Vinyl chloride	50 U	10 U	10 U	27	10 U	10 U	10 U
TOTAL METALS (ug/L)							
Aluminum	888	35.2 B	40.4 B	40.8 B	29.3 B	50.8 B	402
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	96.8 B	10 B	5.9 B	7.6 B	200 U	7 B	6.1 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	8310	78800	67500	53400	2830 B	67800	22800
Chromium	10 U	10 U	3.4 B	10 U	10 U	10 U	5.4 B
Copper	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	100 U	671	673	370	5.3 B	737	571
Lead	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium	7800	1970 B	1480 B	1240 B	1340 B	1420 B	11000
Manganese	37.2	30	34.4	7.5 B	1 B	16.3	10.7 B

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 7

**POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

SAMPLE ID	IR06-GW34-98A	IR06-GW35D-98A	IR06-GW36D-98A	IR06-GW37D-98A	IR06-GW38D-98A	IR06-GW40DW-98A	IR06-GW40DWA-98A
DATE SAMPLED	01-16-1998	01-18-1998	01-19-1998	01-19-1998	01-16-1998	01-18-1998	01-18-1998
TOTAL METALS (ug/L)							
Mercury	0.18 B	0.09 B	0.11 B	0.082 B	0.12 B	0.2 U	0.1 B
Nickel	9.7 B	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	11200	1300 B	1230 B	754 B	9630	796 B	23800
Selenium	18.1	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	15300	7290	5590	4780 B	198000	4820 B	574000
Thallium	4 B	2.9 B	2.8 B	3.9 B	10 U	2.7 B	4.9 B
Vanadium	11.5 B	21.6 B	22 B	19.8 B	7.8 B	20.8 B	15.1 B
Zinc	97.3	17.2 B	16.1 B	3.3 B	9 B	14.2 B	28.4
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	150	230	170	170	510	170	1600
Total Suspended Solids	4 U	4 U	4 U	4 U	4 U	4 U	15

U = Not detected

B = Detected in Blank (organics) or estimated result (inorganics)

J = Estimated Result

ND = Not detected

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 8

VOLATILE ORGANICS IN GROUNDWATER
 JULY 1997 - JANUARY 1998
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/ Metal	MCL	NCWQS	July 1997	October 1997	January 1998
06-GW01 Tetrachloroethene	5.0	0.7	ND	12	2.8 J
06-GW01D 1,1-Dichloroethene	7.0	7.0	57	ND	ND
1,2-Dichloroethene (total)	70	70	28,000	36,000	36,000
Tetrachloroethene	5.0	0.7	890	1,600	2,000 J
Trichloroethene	5.0	2.8	97,000	140,000	170,000
Vinyl chloride	2.0	0.015	320	520	ND
06-GW01DA Trichloroethene	5.0	2.8	ND	ND	0.93 J
06-GW01DB Tetrachloroethene	5.0	0.7	ND	ND	1.0 J
06-GW03 1,2-Dichloroethene (total)	70	70	ND	1.5	4.6 J
Chloroform	100	0.19	ND	ND	0.86 J
Tetrachloroethene	5.0	0.7	ND	ND	1.3 J
06-GW16 Chlorobenzene	100	50	2,700	6,300	2,900
1,1,2,2-Tetrachloroethane	NE	NE	11	ND	ND
06-GW27DW 1,1-Dichloroethene	7.0	7.0	11	ND	ND
1,2-Dichloroethene (total)	70	70	4,800	4,300	4400
Trichloroethene	5.0	2.8	3,400	2,900	3,500
Vinyl Chloride	2.0	0.015	110	84	ND
06-GW28 1,1,2,2-Tetrachloroethane	NE	NE	ND	2.6	ND
1,2-Dichloroethene (total)	70	70	ND	15	12
Tetrachloroethene	5.0	0.7	7.0	37	24
Trichloroethene	5.0	2.8	22	49	39
06-GW28DW 1,2-Dichloroethene (total)	70	70	550	3,500	1,400
Tetrachloroethene	5.0	0.7	ND	140	49 J
Trichloroethene	5.0	2.8	1,100	9,600	4,100
Vinyl chloride	2.0	0.015	ND	75	ND

TABLE 8 (Continued)

VOLATILE ORGANICS IN GROUNDWATER
 JULY 1997 - JANUARY 1998
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/ Metal	MCL	NCWQS	July 1997	October 1997	January 1998
06-GW30 Tetrachloroethene	5.0	0.7	ND	3.4	ND
06-GW32 1,1,2,2-Tetrachloroethane	NE	NE	ND	12	ND
1,2-Dichloroethene (total)	70	70	1,500	320	9.8
Tetrachloroethene	5.0	0.7	110	33	2.1 J
Trichloroethene	5.0	2.8	2,800	670	26
Vinyl Chloride	2.0	0.015	16	ND	ND
06-GW33 Tetrachloroethene	5.0	0.7	ND	5.0	ND
06-GW34 1,1,2,2-Tetrachloroethane	NE	NE	5,600	8,500	11000
1,1,2-Trichloroethane	5.0	NE	ND	45	58
1,2-Dichloroethene (total)	70	70	ND	170	200
Tetrachloroethene	5.0	0.7	170	120	120
Trichloroethene	5.0	2.8	310	400	510
06-GW35D 1,1,2,2-Tetrachloroethane	NE	NE	ND	2.9	ND
06-GW37D 1,2-Dichloroethene (total)	70	70	230	230	260
Benzene	5.0	1.0	ND	7.8	6.9
Trichloroethene	5.0	2.8	88	8.0	6.5
Vinyl chloride	2.0	0.015	ND	16	27
82-MW02 Vinyl Chloride	2.0	0.015	ND	1.6	ND
82-MW03 Tetrachloroethene	5.0	0.7	ND	ND	1.1 J

Notes:

Concentrations expressed in micrograms per liter ($\mu\text{g/L}$) 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).
- ND = Not Detected
- NE = Not Established

TABLE 9

**METALS IN GROUNDWATER ABOVE SCREENING STANDARDS
 JULY 1997 - JANUARY 1998
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA**

Monitoring Well/ Metal	MCL	NCWQS	July 1997	October 1997	January 1998
06-GW01D Iron	300	300	900	1,280	1,020
Silver	0.1	18	1.6	ND	ND
06-GW01DB Aluminum	200	NE	242	ND	235
06-GW02DW Iron	300	300	ND	569	455
06-GW03 Cadmium	5.0	5.0	ND	5.8	7.1
06-MW03D Aluminum	200	NE	630	ND	ND
Iron	300	300	996	996	1,070
06-GW15D Iron	300	300	ND	319	ND
06-GW16 Aluminum	200	NE	631	807	1,480
Iron	300	300	1,660	1,370	783
Manganese	50	50	88	124	63
06-GW17 Aluminum	200	NE	1,900	1,250	3,050
Iron	300	300	1,210	1,390	1,030
06-GW21 Aluminum	200	NE	243	ND	352
06-GW27Dw Iron	300	300	438	521	526
06-GW27DA Aluminum	200	NE	ND	4,330	ND
Iron	300	300	438	3,480	709
06-GW28DW Iron	300	300	569	863	709
06-GW30 Iron	300	300	ND	335	ND
06-GW30DW Iron	300	300	984	1,130	1,220
06-GW33 Aluminum	200	NE	770	715	586
Iron	300	300	427	ND	ND
06-GW34 Aluminum	200	NE	722	822	888
06-GW35D Iron	300	300	499	733	671

TABLE 9 (Continued)

**METALS IN GROUNDWATER ABOVE SCREENING STANDARDS
 JULY 1997 - JANUARY 1998
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA**

Monitoring Well/ Metal	MCL	NCWQS	July 1997	October 1997	January 1998
06-GW36D Iron	300	300	496	824	673
06-GW37D Iron	300	300	726	469	370
06-GW40DW Iron	300	300	984	740	737
06-GW40DWA Aluminum	200	NE	ND	356	402
Iron	300	300	ND	497	571
82-MW02 Aluminum	200	NE	486	ND	ND
Iron	300	300	5,740	5,490	10,900
Manganese	50	50	ND	58	64
82-MW03 Aluminum	200	NE	5,280	4,330	3,240
Iron	300	300	3,440	793	1,030
Manganese	50	50	122	116	87

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.) Table includes Secondary MCLs for aluminum, iron, and manganese.
- NCWQS** = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).
- ND** = Not detected or analyte detected at a concentration less than screening standard.
- NE** = Not Established

TABLE 10

**TREATMENT SYSTEM SAMPLING RESULTS
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

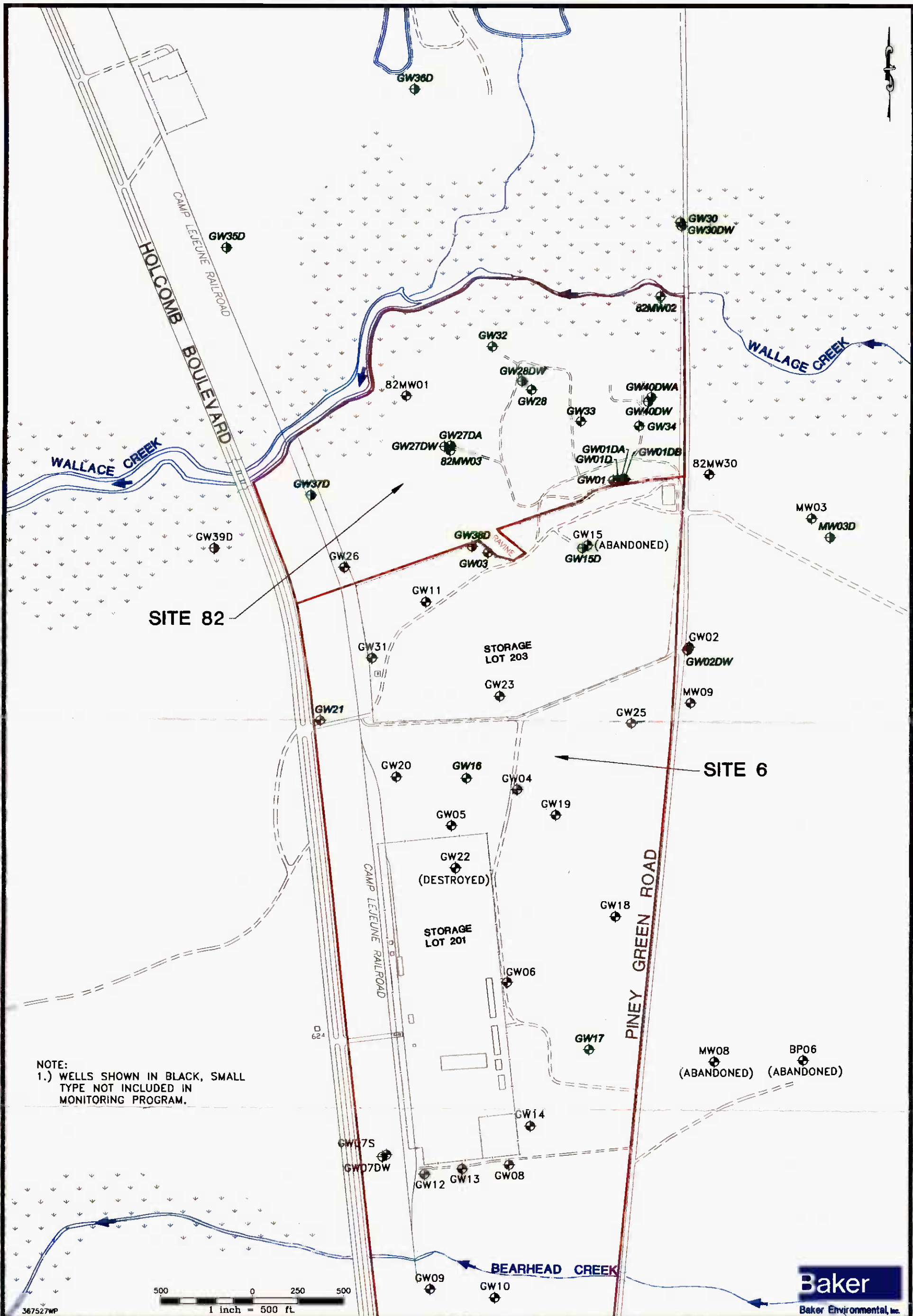
Contaminant	January 1998				February 1998				March 1998			
	Shallow Aquifer Influent	Deep Aquifer Influent	Air Stripper Effluent	Final Effluent	Shallow Aquifer Influent	Deep Aquifer Influent	Air Stripper Effluent	Final Effluent	Shallow Aquifer Influent	Deep Aquifer Influent	Air Stripper Effluent	Final Effluent
Volatiles⁽¹⁾												
1,2-Dichloroethane	<1.0	19	<1.0	<1.0	<2.0	<10	<1.0	<1.0	<10	<100	<1.0	<1.0
trans-1,2-Dichloroethene	95	2,200	<1.0	<1.0	176	1,880	<1.0	<1.0	127	1,850	<1.0	<1.0
Tetrachloroethene	28	510	<1.0	<1.0	734	209	99	62	217	249	23	13
Trichloroethene	999	15,400	<1.0	54	866	963	4.7	58	625	15,000	3.1	46
Vinyl Chloride	4.5	97	<1.0	<1.0	7.5	142	<1.0	<1.0	<10	<200	<1.0	<1.0
Ethylbenzene	<2.0	<2.0	<2.0	<2.0	<4.0	<20	<2.0	<2.0	<20	<20	<2.0	<2.0
Total Metals⁽¹⁾												
Arsenic	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA
Barium	6.3	11	11	10	7.2	116	12	9.9	NA	NA	NA	NA
Beryllium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA
Chromium	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA
Iron	878	686	390	167	665	731	115	<100	NA	NA	NA	NA
Lead	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	NA	NA	NA
Manganese	26	16	12	<5.0	27	28	8.9	<5.0	NA	NA	NA	NA
Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA
Vanadium	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA
Wet Chemistry⁽²⁾												
Total Dissolved Solids	155	220	NA	230	160	230	NA	245	NA	NA	NA	NA
Total Suspended Solids	<10	<10	NA	10	<10	<10	NA	<10	NA	NA	NA	NA
pH	7.10	7.30	NA	7.50	6.90	7.10	NA	7.70	NA	NA	NA	NA

Notes:

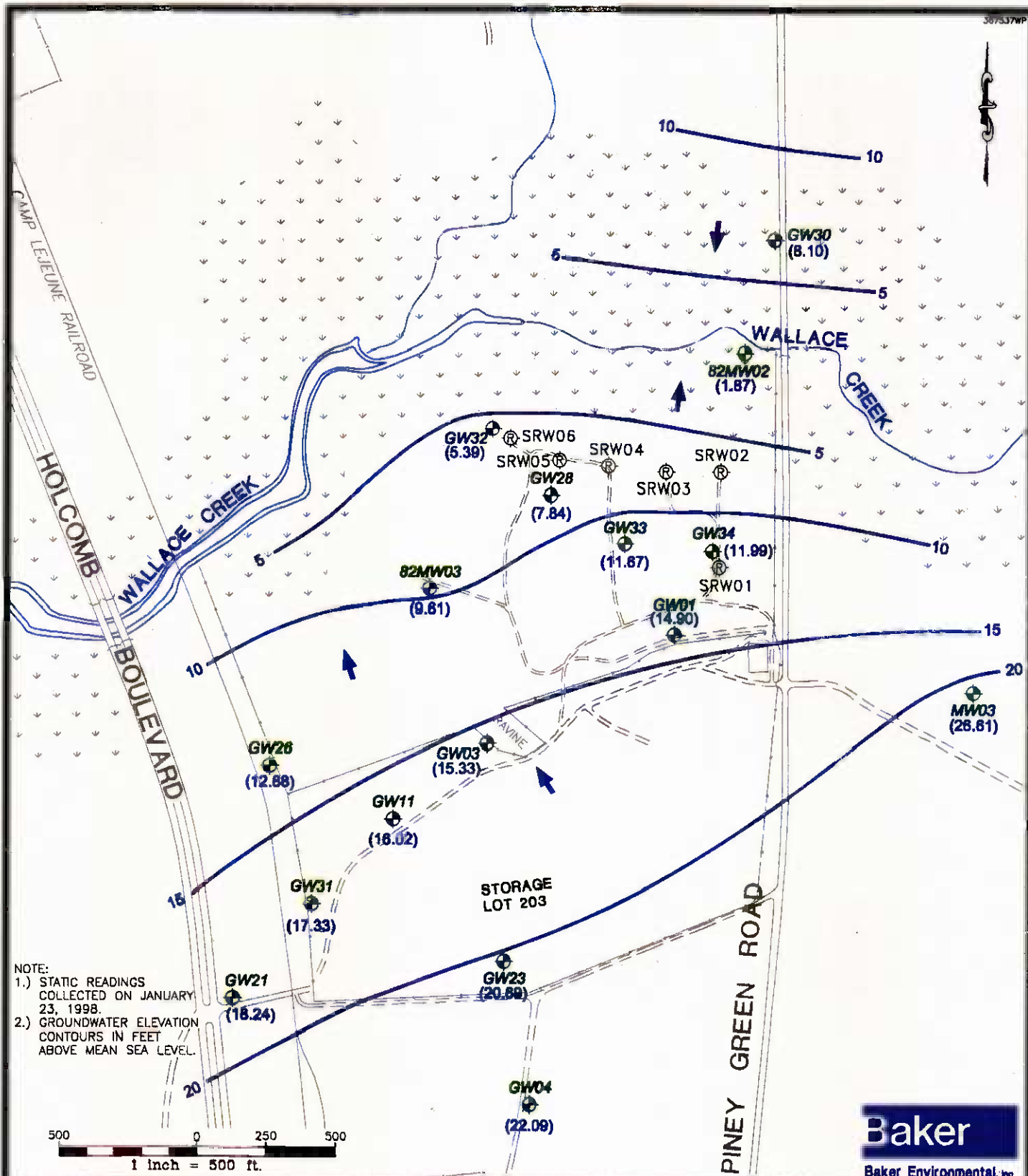
- (1) Volatile and Metal concentrations reported in micrograms per liter ($\mu\text{g/L}$) or parts per billion.
(2) Wet chemistry concentrations reported in milligrams per liter (mg/L) or parts per million.

NA = Not analyzed or not available.

FIGURES



02037KKBIY



NOTE:
 1.) STATIC READINGS COLLECTED ON JANUARY 23, 1998.
 2.) GROUNDWATER ELEVATION CONTOURS IN FEET ABOVE MEAN SEA LEVEL.

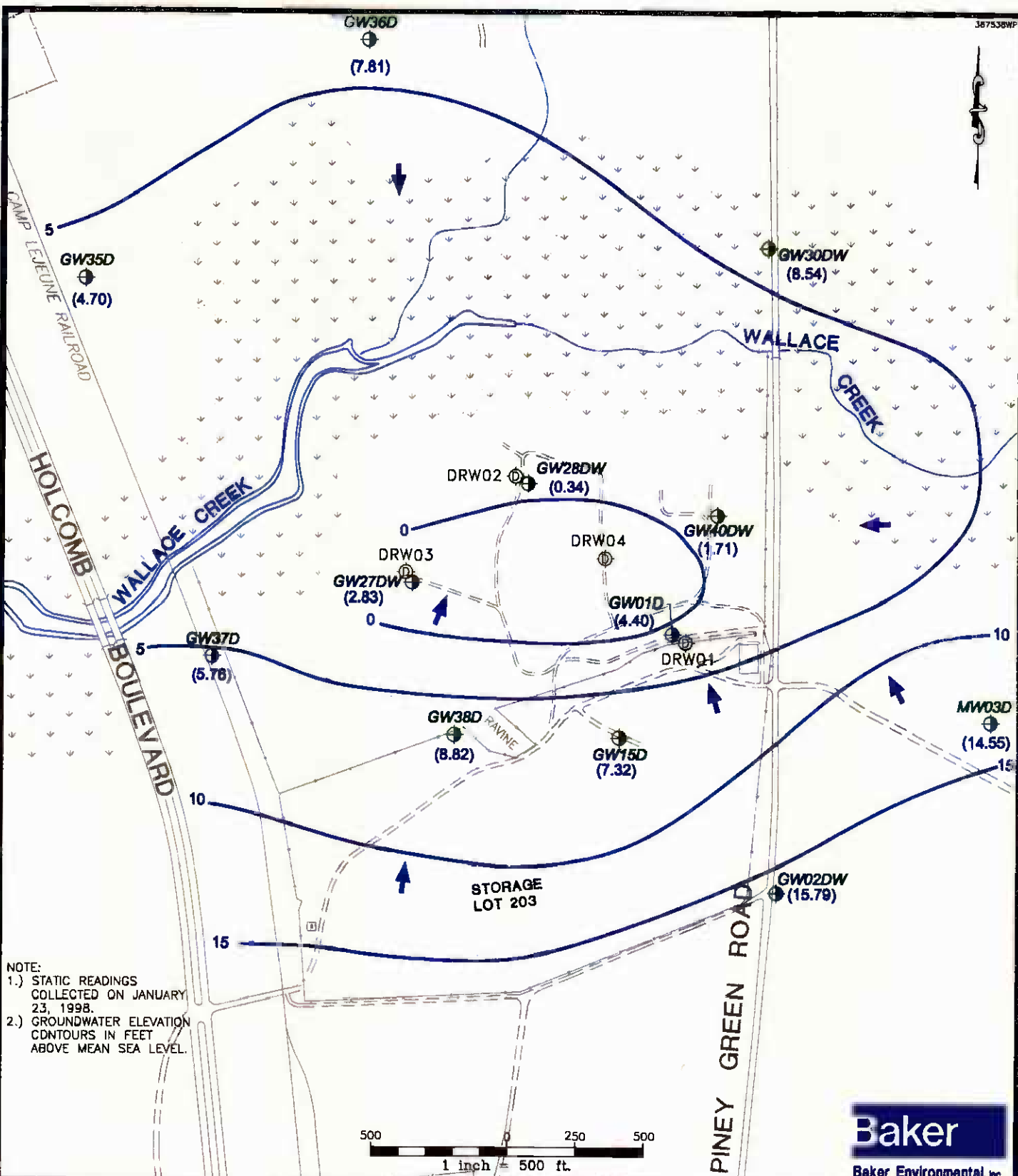


LEGEND

- SHALLOW MONITORING WELL
- SHALLOW RECOVERY WELL
- (22.09)** GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FIGURE 2
SHALLOW GROUNDWATER CONTOUR MAP
 OPERABLE UNIT No.2 – SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTQ-0367

MARINE CORPS BASE, CAMP LEJEUNE
 NORTH CAROLINA



NOTE:
 1.) STATIC READINGS COLLECTED ON JANUARY 23, 1998.
 2.) GROUNDWATER ELEVATION CONTOURS IN FEET ABOVE MEAN SEA LEVEL.



LEGEND

- DEEP MONITORING WELL
- DEEP RECOVERY WELL
- (15.79)** GROUNDWATER ELEVATION
- GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

FIGURE 3
DEEP GROUNDWATER CONTOUR MAP
 OPERABLE UNIT No.2 – SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367

MARINE CORPS BASE, CAMP LEJEUNE
 NORTH CAROLINA

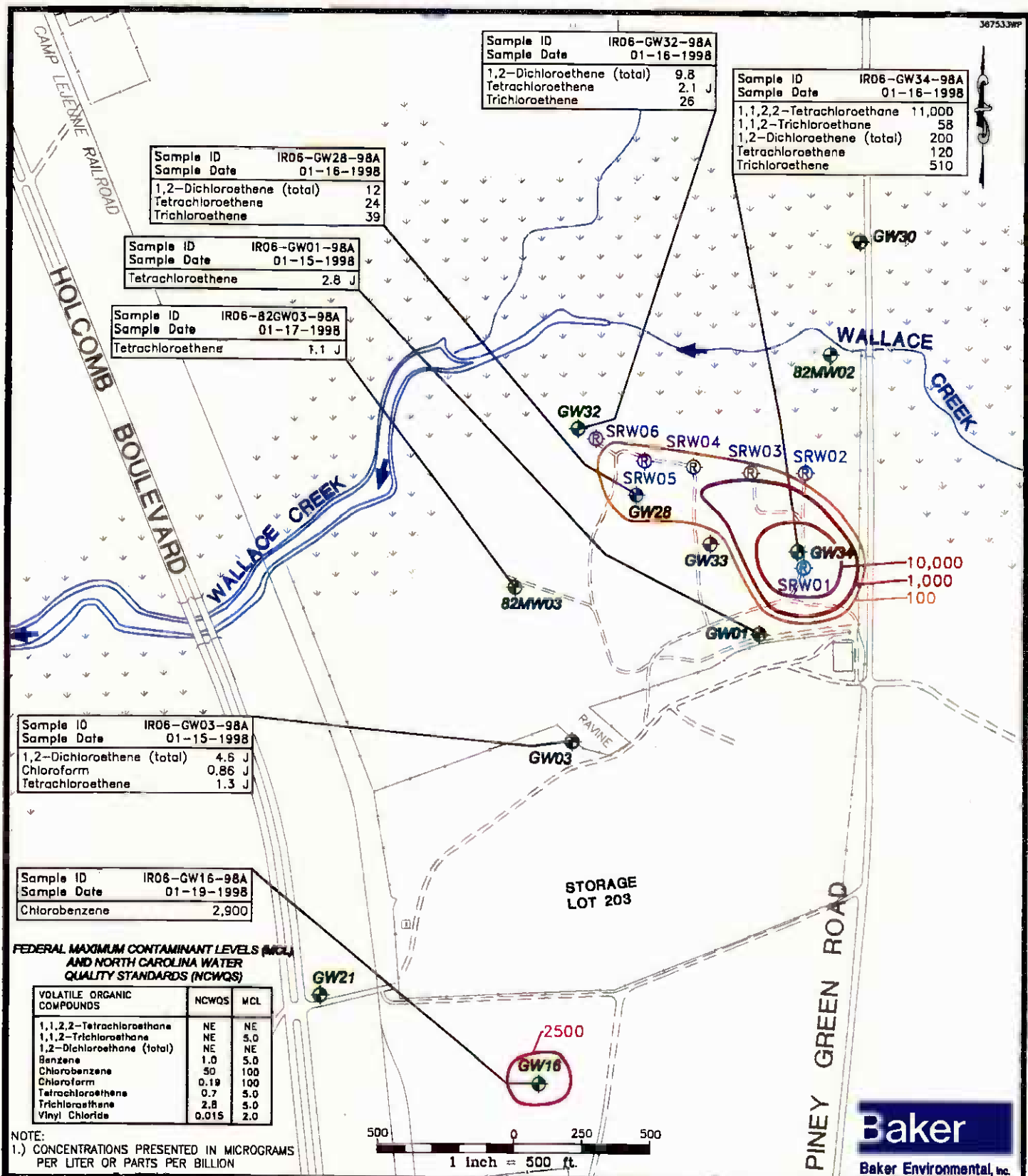


FIGURE 4
 VOLATILE ORGANIC COMPOUNDS
 IN SHALLOW GROUNDWATER
 OPERABLE UNIT No.2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MARINE CORPS BASE, CAMP LEJEUNE
 NORTH CAROLINA



FEDERAL MAXIMUM CONTAMINANT LEVELS (MCL) AND NORTH CAROLINA WATER QUALITY STANDARDS (NCWQS)

VOLATILE ORGANIC COMPOUNDS	NCWQS	MCL
1,1,2,2-Tetrachloroethane	NE	NE
1,1,2-Trichloroethane	NE	5.0
1,2-Dichloroethane (total)	NE	NE
Benzene	1.0	5.0
Chlorobenzene	50	100
Chloroform	0.19	100
Tetrachloroethane	0.7	5.0
Trichloroethane	2.8	5.0
Vinyl Chloride	0.015	2.0

NOTE:
1.) CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER OR PARTS PER BILLION

Sample ID	IR06-GW28DW-98A
Sample Date	01-16-1998
1,2-Dichloroethene (total)	1,400
Tetrachloroethene	49 J
Trichloroethene	4,100

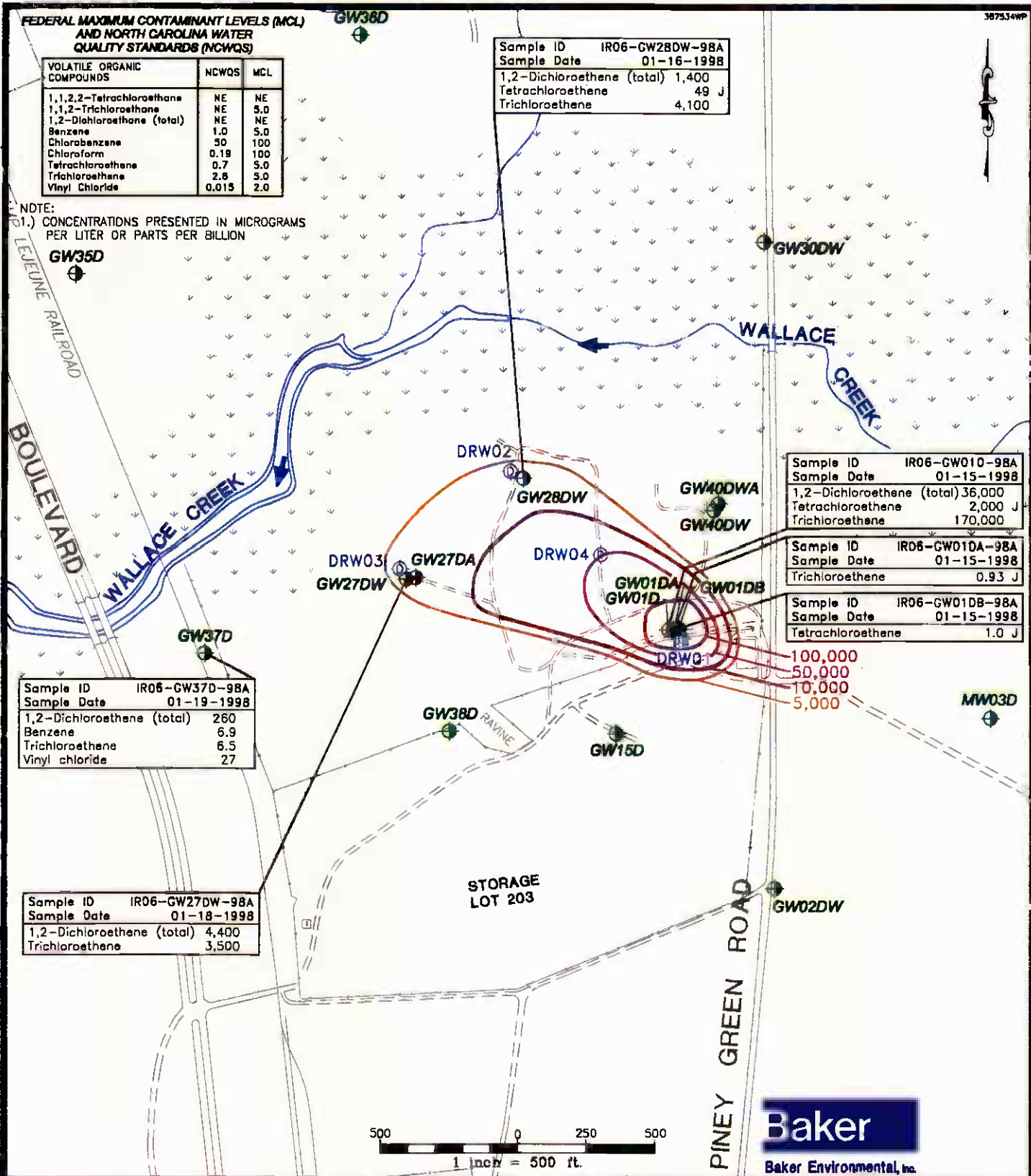
Sample ID	IR06-GW010-98A
Sample Date	01-15-1998
1,2-Dichloroethene (total)	36,000
Tetrachloroethene	2,000 J
Trichloroethene	170,000

Sample ID	IR06-GW01DA-98A
Sample Date	01-15-1998
Trichloroethene	0.93 J

Sample ID	IR06-GW01DB-98A
Sample Date	01-15-1998
Tetrachloroethene	1.0 J

Sample ID	IR06-GW37D-98A
Sample Date	01-19-1998
1,2-Dichloroethene (total)	260
Benzene	6.9
Trichloroethene	6.5
Vinyl chloride	27

Sample ID	IR06-GW27DW-98A
Sample Date	01-18-1998
1,2-Dichloroethene (total)	4,400
Trichloroethene	3,500



LEGEND

- DEEP MONITORING WELL
- DEEP RECOVERY WELL
- APPROXIMATE DIRECTION OF SURFACE WATER FLOW
- FENCING
- 5,000 APPROXIMATE HORIZONTAL EXTENT OF CONTAMINATION AT TOTAL VOC CONCENTRATION

FIGURE 5
VOLATILE ORGANIC COMPOUNDS
IN DEEP GROUNDWATER
OPERABLE UNIT No.2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

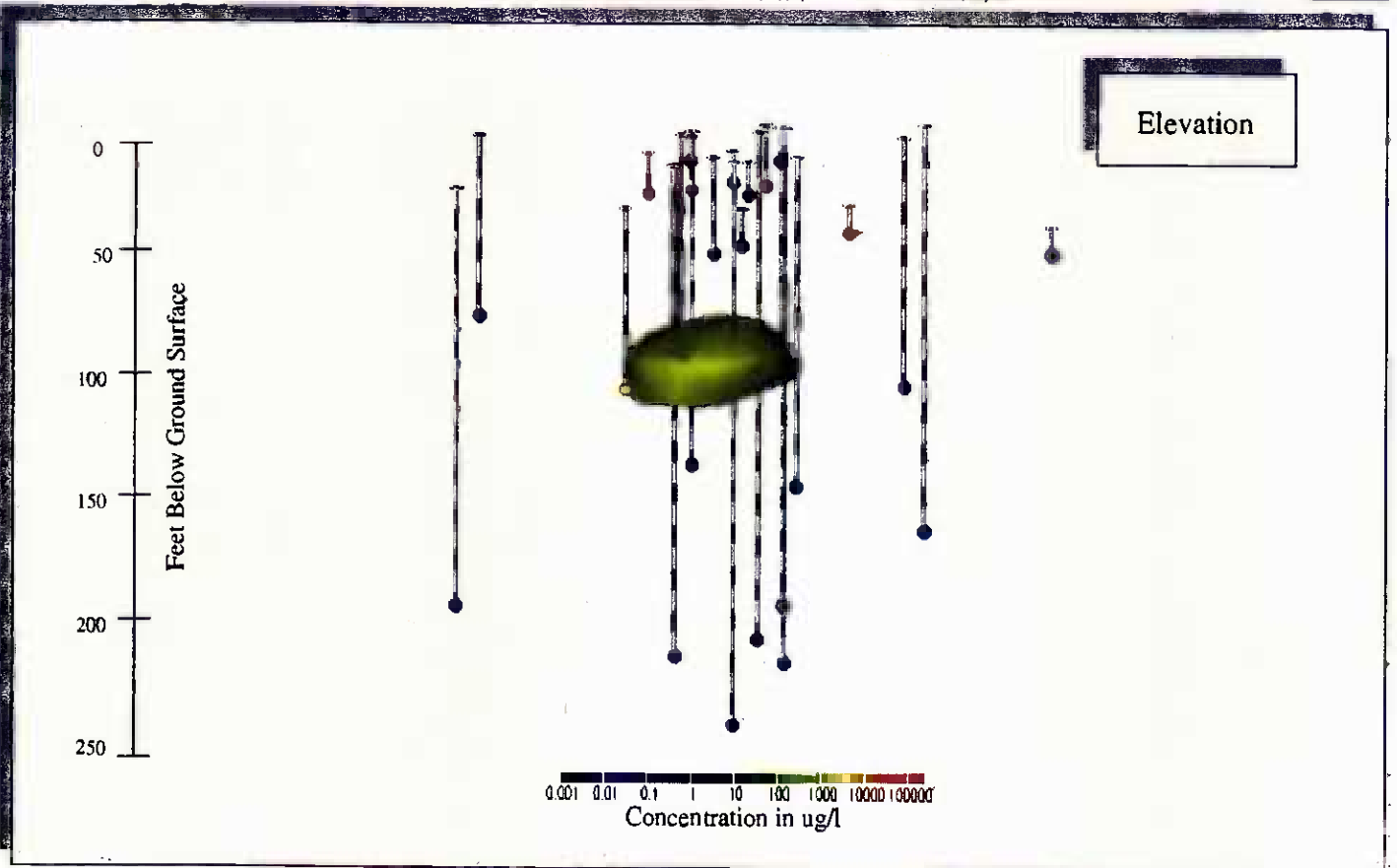
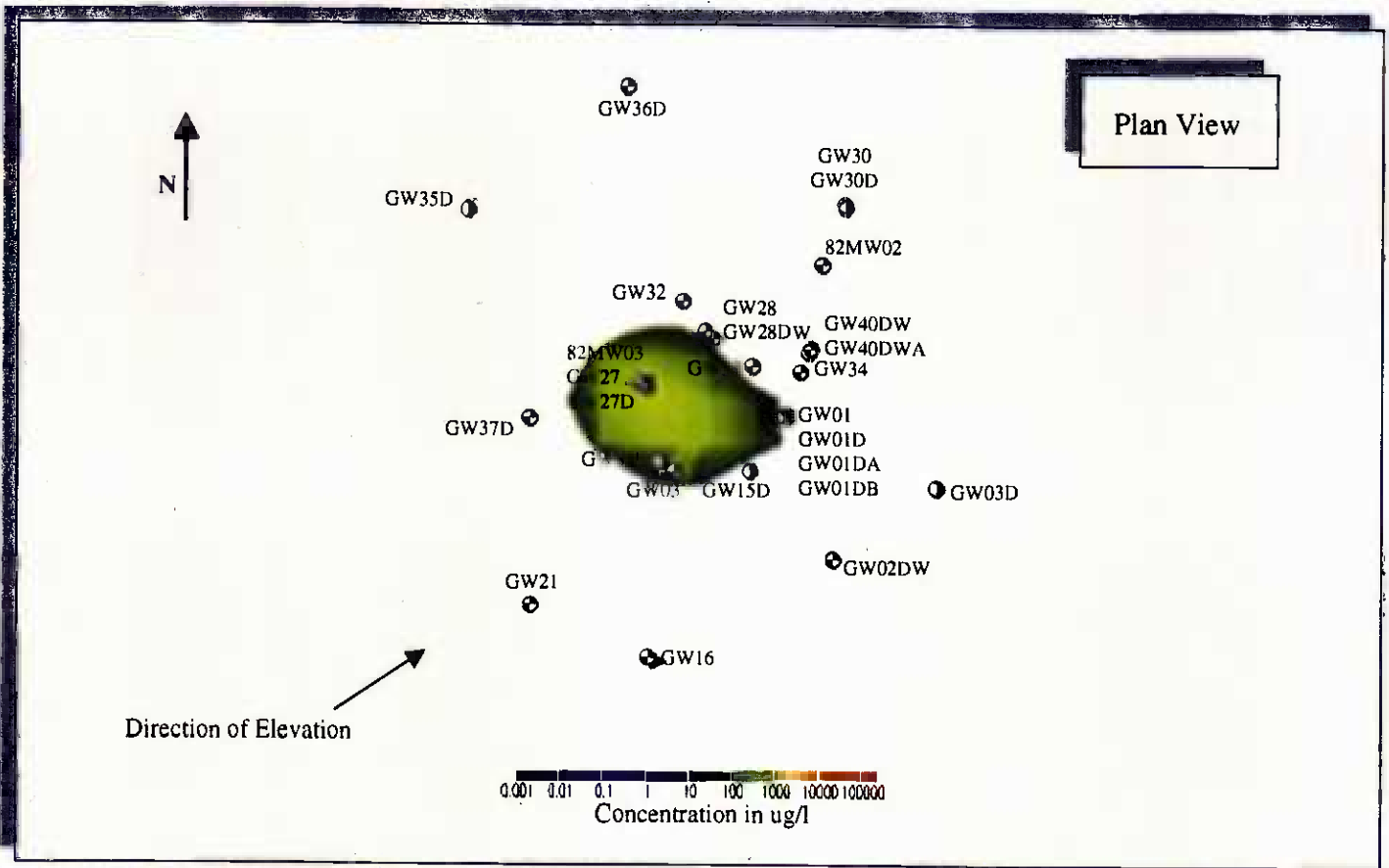


Figure 6
Total VOCs in Groundwater Exceeding 1,000 ug/l
Third Quarter of 1997
Operable Unit No. 2 - Sites 6 and 82

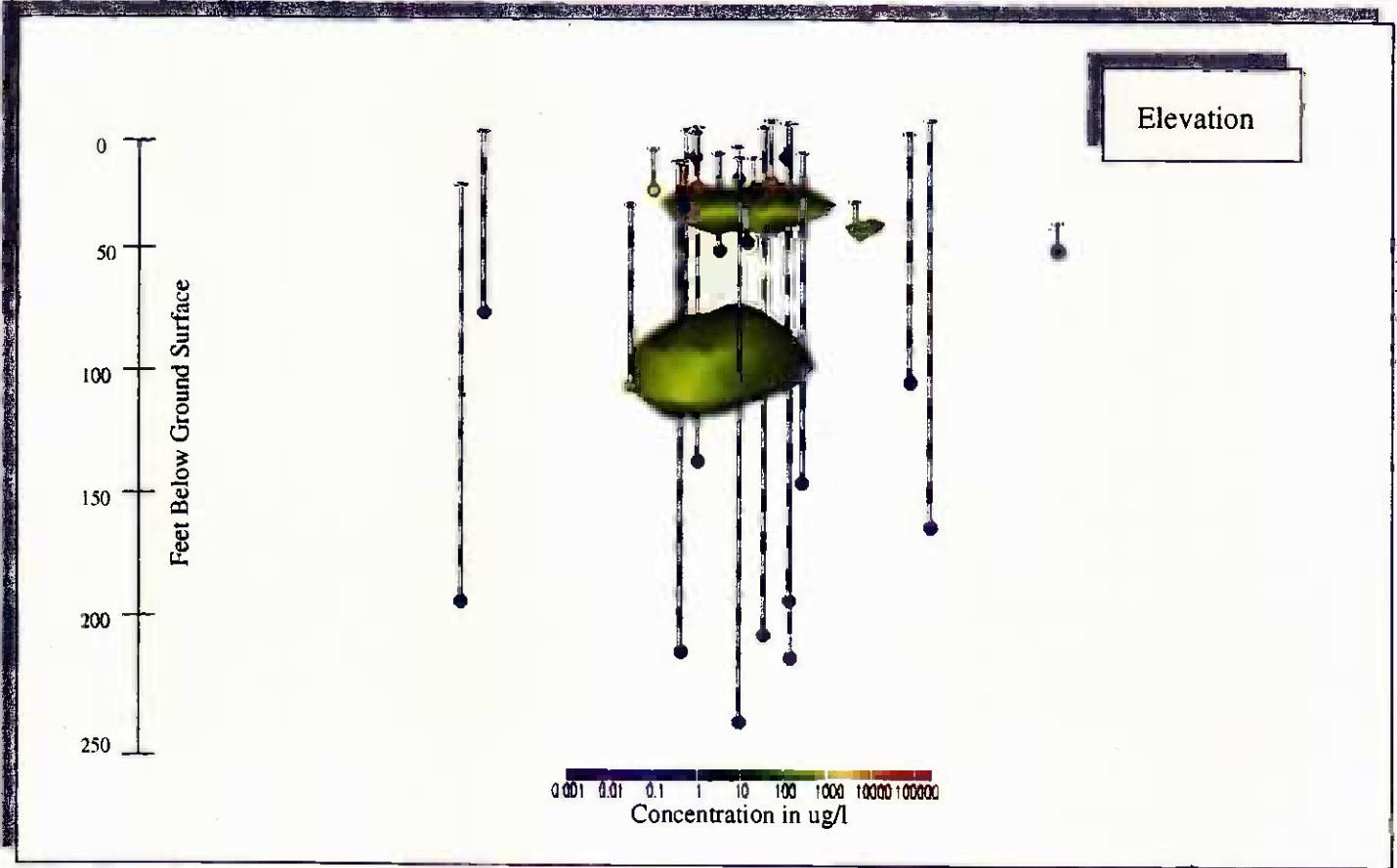
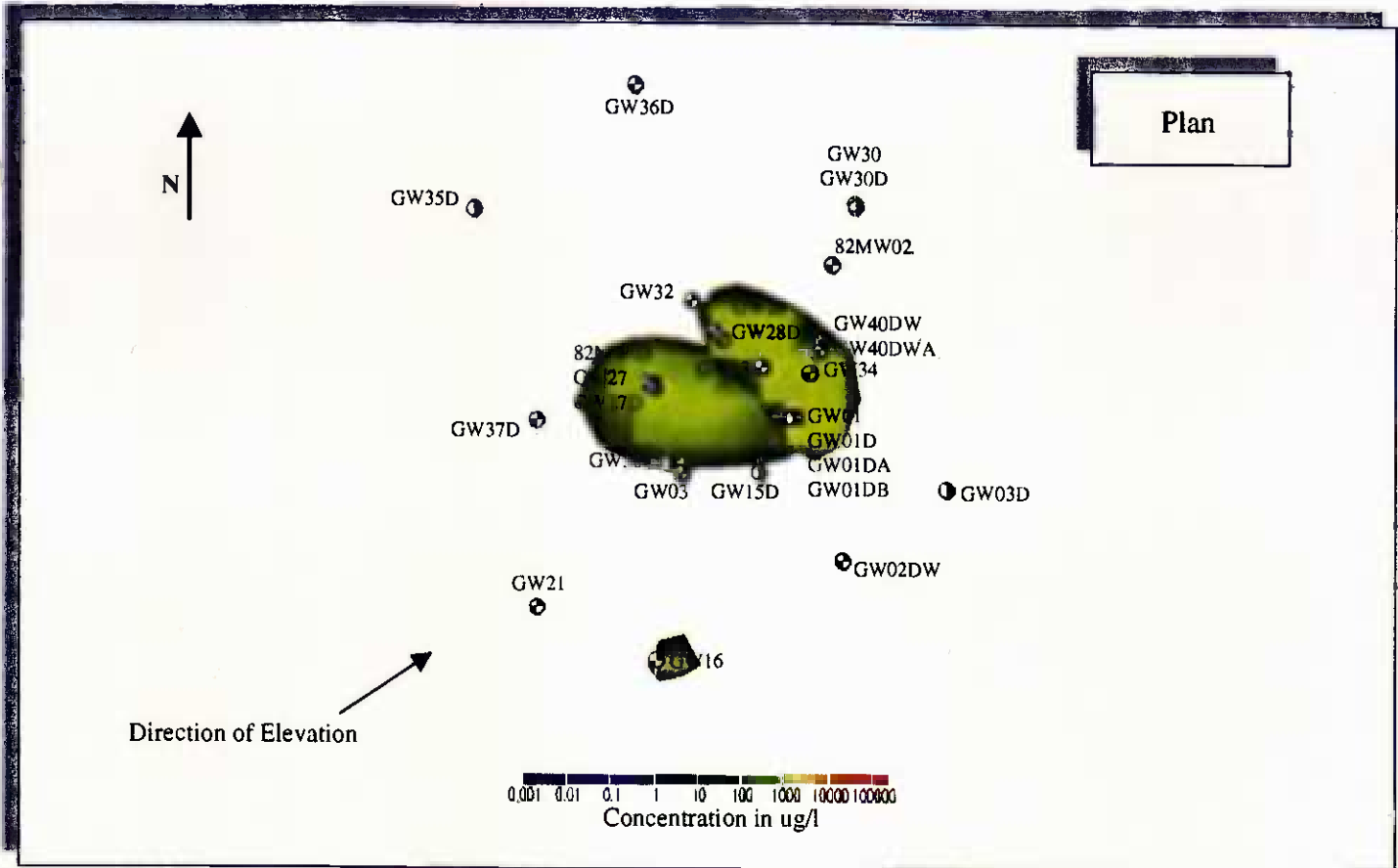


Figure 7
Total VOCs in Groundwater Exceeding 1,000 ug/l.
Fourth Quarter of 1997
Operable Unit No. 2 - Sites 6 and 82

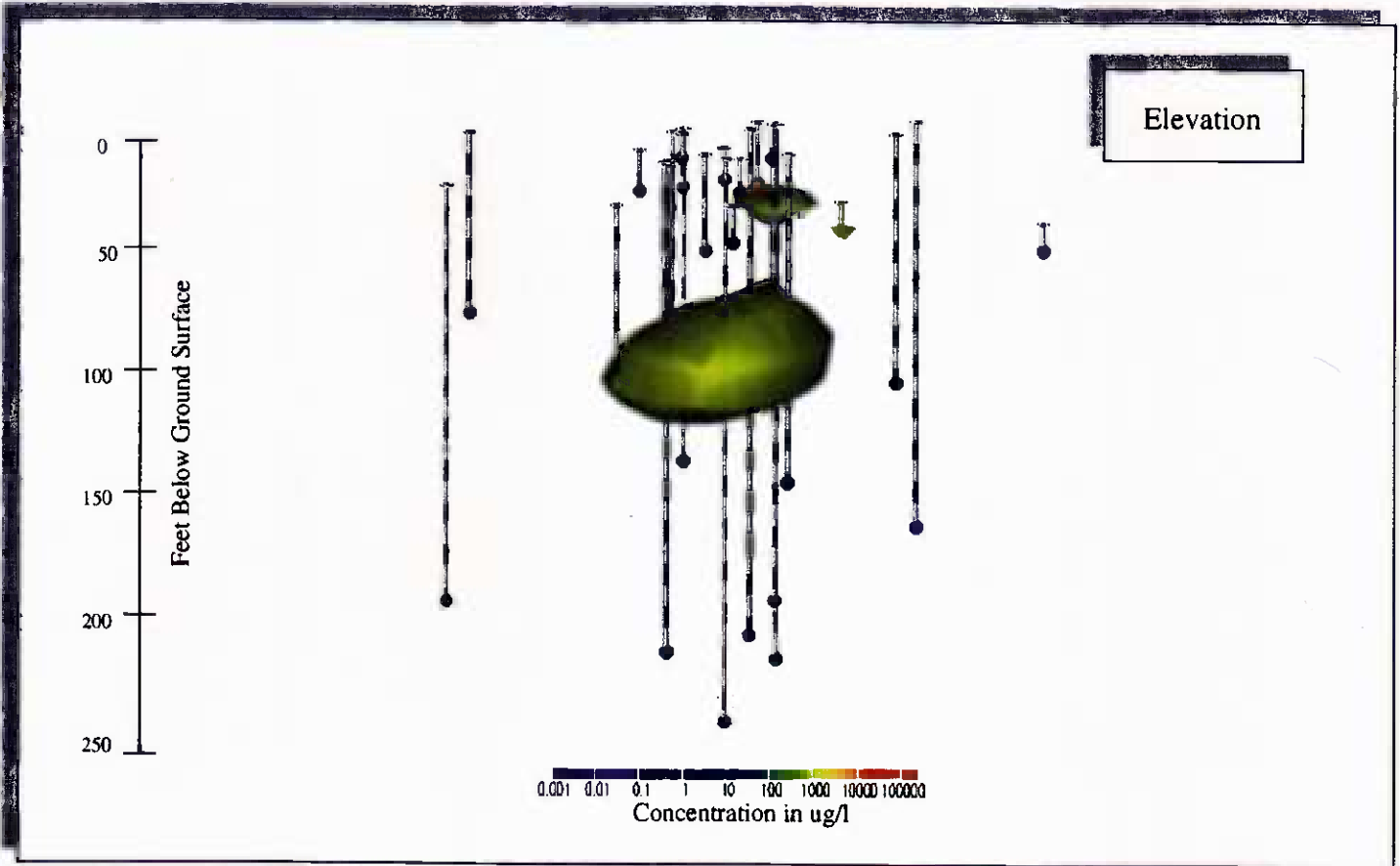
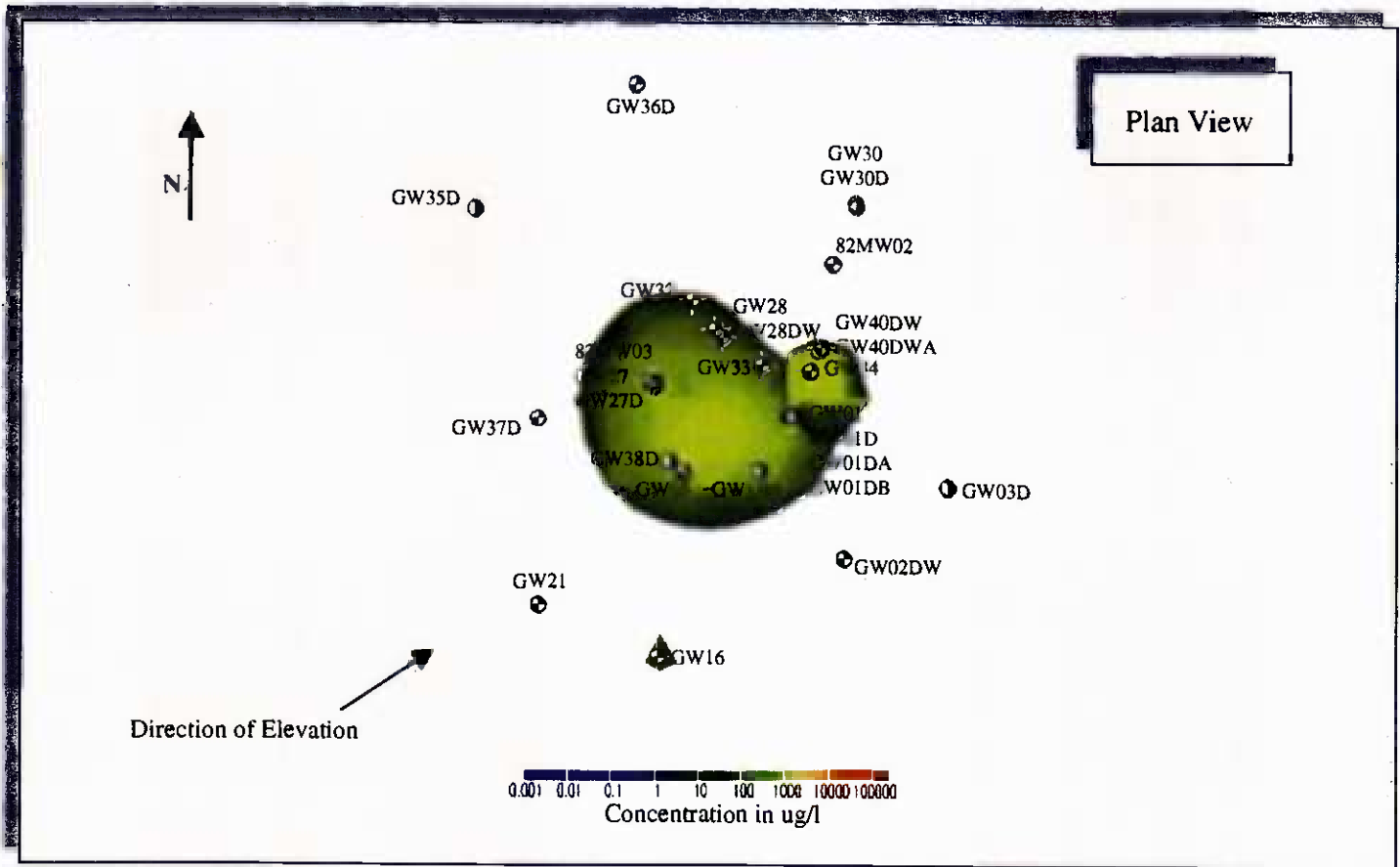
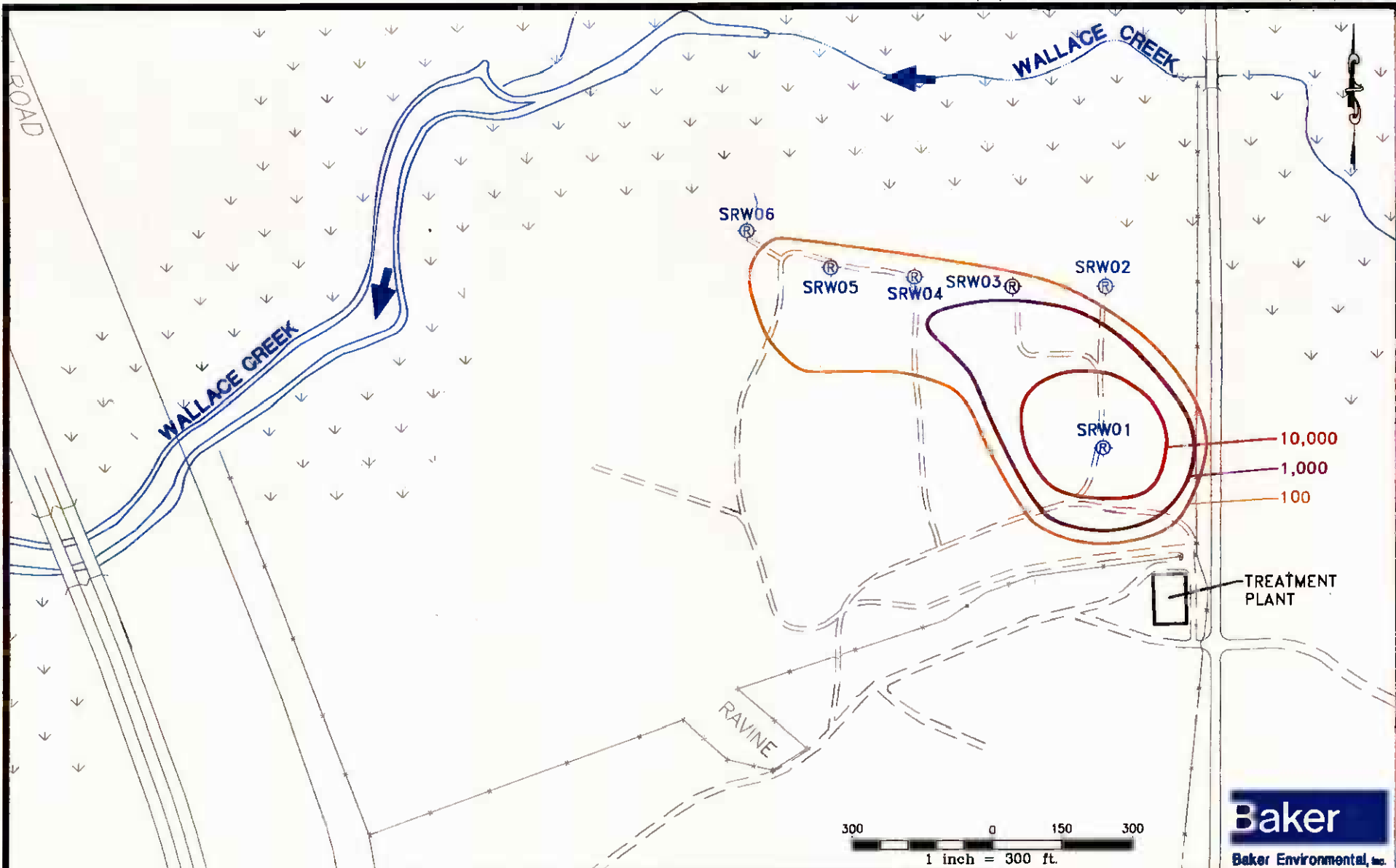


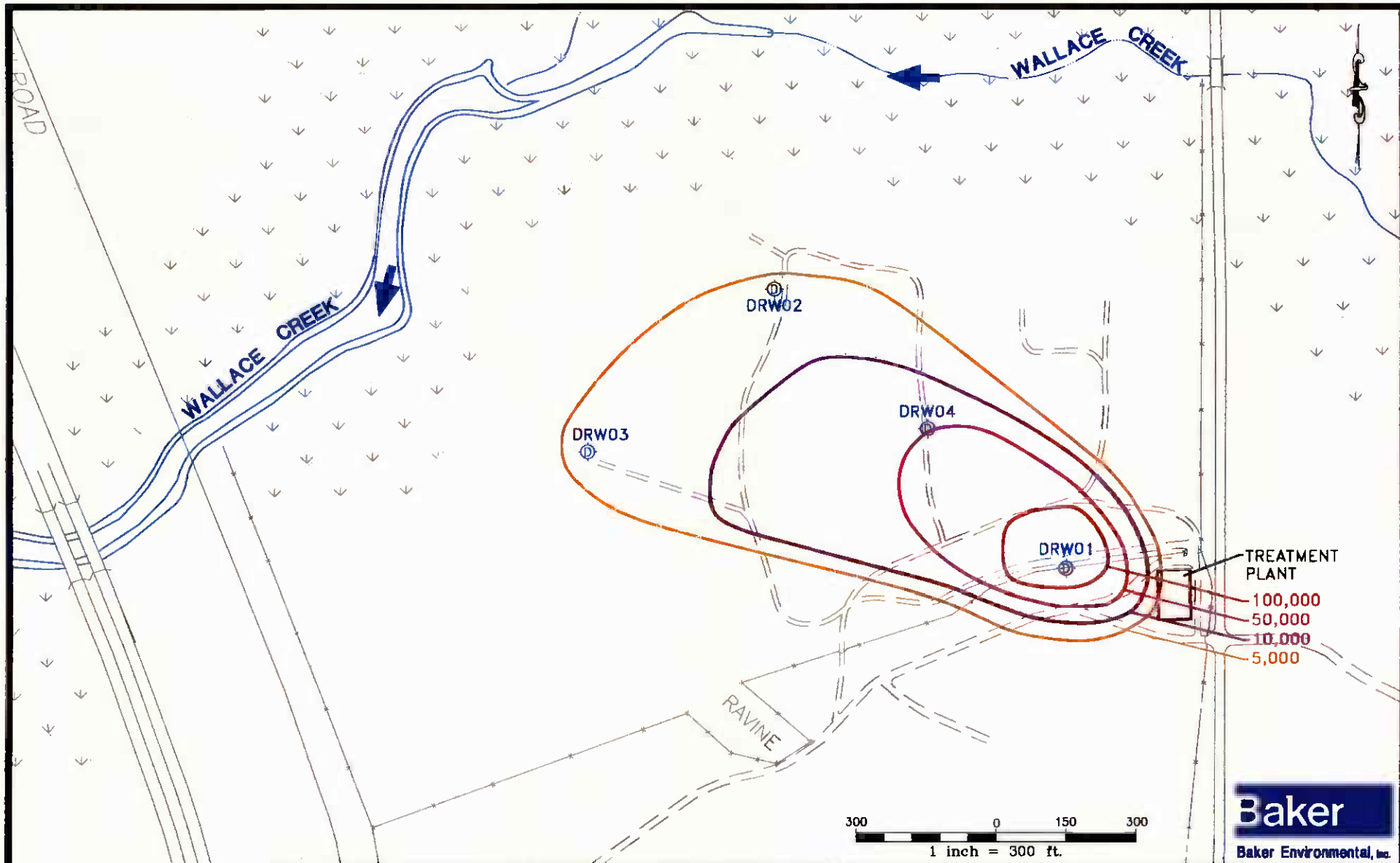
Figure 8
Total VOCs in Groundwater Exceeding 1,000 ug/l
First Quarter of 1998
Operable Unit No. 2 - Sites 6 and 82



LEGEND

- SHALLOW RECOVERY WELL
- APPROXIMATE DIRECTION OF SURFACE WATER FLOW
- FENCING
- APPROXIMATE HORIZONTAL EXTENT OF CONTAMINATION AT TOTAL VOC CONCENTRATION

FIGURE 9
 SHALLOW GROUNDWATER TREATMENT SYSTEM
 OPERABLE UNIT No. 2 – SITES 6 and 82
 MONITORING and O&M SUPPORT, CTO-0367
 MARINE CORPS BASE, CAMP LEJEUNE
 NORTH CAROLINA



LEGEND





-  DEEP RECOVERY WELL
-  APPROXIMATE DIRECTION OF SURFACE WATER FLOW
-  FENCING
-  APPROXIMATE HORIZONTAL EXTENT OF CONTAMINATION WITH TOTAL VOC CONCENTRATION

FIGURE 10
 DEEP GROUNDWATER TREATMENT SYSTEM
 OPERABLE UNIT No. 2 – SITES 6 and 82
 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

CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 1 *

COC# 36798A-01

QUA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998	Page <u>1</u> of <u>5</u>
Address Airport Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL	
City Knoxville	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.		
Project Number/Name Camp LeJeune			Carrier/Waybill Number FedEx 80276950971		
Contract/Purchase Order/Quote Number					

CONTRACT / PURCHASE ORDER # : QUOTE: 21108

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	Analysis																											
				Volume	Type	No.			M	H	M	T	T	B	C	T	D	B	B	L	C	B	B	P	P	D	B	D	B	D	B	D	B	L	L	L
IR06-GW01-98A	1-15	1610	WATER	40mL	VIAL	3	1:1 HCL																													
IR06-GW01-98A	1-15	1610	WATER	1000mL	PLASTIC	1	Conc HNO3	X	X																											
IR06-GW01-98A	1-15	1610	WATER	1000mL	PLASTIC	1	None														X	X														
IR06-GW01D-98A	1-15	1530	WATER	40mL	VIAL	3	1:1 HCL																													
IR06-GW01-98A			WATER	1000mL	PLASTIC	1	None	X	X																											
IR06-GW01-98A			WATER	1000mL	PLASTIC	1	None														X	X														
IR06-GW01DA-98A	1-15	1340	WATER	40mL	VIAL	3	1:1 HCL	X																												
IR06-GW01DA-98A	1-15	1340	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																										
IR06-GW01DA-98A	1-15	1340	WATER	1000mL	PLASTIC	1	None														X	X														
IR06-GW01DB-98A	1-15	1115	WATER	40mL	VIAL	3	1:1 HCL	X																												
IR06-GW01DB-98A	1-15	1115	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																										
IR06-GW01DB-98A	1-15	1115	WATER	1000mL	PLASTIC	1	None														X	X														
IR06-GW01-98A			WATER	1000mL	PLASTIC	1	None	X																												
IR06-GW01-98A			WATER	1000mL	PLASTIC	1	None		X	X																										
IR06-GW01-98A			WATER	1000mL	PLASTIC	1	None														X	X														
IR06-TB01-98A								X																												

Special Instructions: GW01, GW01D, GW01DA & GW01DB have been contaminated with VOAs in the past (may exceed 10,000ppb)

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

1. Relinquished By: <i>Jh. J. Hill</i>	Date: 1-16-98	Time: 1750	1. Received By: FedEx	Date: 1-16-98	Time: 1800
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: _____



5815 Middlebrook Pike
Knoxville, Tennessee 37921
(615) 588-6401

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD *

Reference Document No. 3473
Page ~~1~~ of 2

Project Name/No. 1 Samples Shipment Date 7
 Sample Team Members 2 Lab Destination 8
 Profit Center No. 3 Lab Contact 9
 Project Manager 4 Project Contact/Phone 12
 Purchase Order No. 6 Carrier/Waybill No. 13
 Required Report Date 11

Bill to: 5
2
COC# 36798A-01
 Report to: 10

Refer to Page 1

Refer to Page 1

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
IR06-GW03-	98A	1-15-98/ 1750	G/3		HCL	MS8260LL		
IR06-GW33-	98A	1-16-98/ 0900	G/3		HCl		FOR LAB USE ONLY	
IR06-GW28D	W-98A	1-16-98/ 1450	G/3		HCl			
IR06-GW28-	98A	1-16-98/ 1510	G/3		HCl			
IR06-GW32-	98A	1-16-98/ 1045	G/3		HCl			
IR06-GW38	D-98A	1-16-98/ 1215	G/3		HCl		FOR LAB USE ONLY	
IR06-GW34	-98A	1-16-98/ 1150	G/3		HCl			

Special Instructions: ²³

Possible Hazard Identification: ²⁴ Non-hazard Flammable Skin Irritant Poison B Unknown Sample Disposal: ²⁵ Return to Client Disposal by Lab Archive (mos.)

Turnaround Time Required: ²⁶ Normal Rush QC Level: ²⁷ I. II. III. Project Specific (specify):

1. Relinquished by ²⁸ *[Signature]* Date: 1-16-98 Time: 1750 1. Received by ²⁸ *[Signature]* Date: 1-16-98 Time: 1800
 (Signature/Affiliation) *FedEx*

2. Relinquished by (Signature/Affiliation) Date: Time: 2. Received by (Signature/Affiliation) Date: Time:

3. Relinquished by (Signature/Affiliation) Date: Time: 3. Received by (Signature/Affiliation) Date: Time:

Comments: ²⁹ *FedEx 802769750971*

Write: To accompany samples Yellow: Field copy * See back of form for special instructions.

Chain of Custody Record



CHAIN OF CUSTODY NUMBER

COC# 36798A-02



* 0 0 0 7 5 3 - 0 0 1 *

QUA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998	Page <u>1</u> of <u>2</u>
Address Import Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL	
City Greensburg	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.	Analysis	
Project Number/Name ump LeJeune			Carrier/Waybill Number FedEx 80269750971		
Contract/Purchase Order/Quote Number				QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	H	T	F	C	D	B	S	L	C	B	S	P	B	D	B	L	L		
				Volume	Type	No.																						
[REDACTED]			[REDACTED]						X																			
[REDACTED]			[REDACTED]							X	X																	
[REDACTED]			[REDACTED]									X	X															
[REDACTED]			[REDACTED]						X																			
IR06-GW01D-98A	1-15	1530	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X																	
IR06-GW01D-98A	1-15	1530	WATER	1000mL	PLASTIC	1	None					X	X															
[REDACTED]			[REDACTED]						X																			
[REDACTED]			[REDACTED]							X	X																	
[REDACTED]			[REDACTED]									X	X															
[REDACTED]			[REDACTED]						X																			
[REDACTED]			[REDACTED]							X	X																	
[REDACTED]			[REDACTED]									X	X															
[REDACTED]			[REDACTED]							X																		
[REDACTED]			[REDACTED]								X	X																

Special Instructions

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

Relinquished By <i>Tom Trebilcock</i>	QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.	Date 1-16-98	Time 1750	1. Received By FedEx	Date 1-16-98	Time 1800
Relinquished By		Date	Time	2. Received By	Date	Time
Relinquished By		Date	Time	3. Received By	Date	Time

Comments



5815 Middlebrook Pike
Knoxville, Tennessee 37921
(615) 588-6401

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 3474
Page 2 of 2

Project Name/No. 1 Samples Shipment Date 7
 Sample Team Members 2 Lab Destination 8
 Profit Center No. 3 Lab Contact 9
 Project Manager 4 Project Contact/Phone 12
 Purchase Order No. 6 Carrier/Waybill No. 13
 Required Report Date 11

Bill to: 5
2
 Report to: 10
COC # 36798A-01

Refer to page 1

Refer to page 1

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
IR06-GW03-	98A	1-15-98/ 1750	P/2		HNO3 for	MCLP30:L MCLP30L	FOR LAB USE ONLY	
IR06-GW33-	98A	1-16-98/ 0900	P/2		Metals only	TDS TSS		
IR06-GW28D	W-98A	1-16-98 1450	P/2					
IR06-GW28-	98A	1-16-98 1510	P/2					
IR06-GW32-	98A	1-16-98 1045	P/2					
IR06-GW38	D-98A	1-16-98 1215	P/2					
IR06-GW34-	98A	1-16-98 1150	P/2				FOR LAB USE ONLY	

All

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal: ²⁵

Return to Client Disposal by Lab Archive (mos.)

Turnaround Time Required: ²⁶

Normal Rush

QC Level: ²⁷

I. II. III. Project Specific (specify):

1. Relinquished by ²⁸
(Signature/Affiliation)

[Signature]

Date: 1-16-98
Time: 1750

1. Received by ²⁸
(Signature/Affiliation)

Fed Ex

Date: _____
Time: _____

2. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

2. Received by
(Signature/Affiliation)

Date: _____
Time: _____

3. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

3. Received by
(Signature/Affiliation)

Date: _____
Time: _____

Comments: ²⁹

White: To accompany samples

Yellow: Field copy

* See back of form for special instructions.

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 1 *

COC # 36798A-03

OUA-4149-1

Client Baker Environmental, Inc. Address Airport Office Park Bldg 3 City Coraopolis Project Number/Name Camp LeJeune Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 1998			Project Manager Baker Environmental, Inc. Telephone Number (Area Code)/Fax Number (412) 289-6000 / (000) Site Contact Baker Environmental, Inc. Carrier/Waybill Number FedEx 802769750982			Date 01/08/1998 Lab Location QUANTERRA - KNOXVILL Page <u>1</u> of <u>6</u>		
--	--	--	--	--	--	---	--	--

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
IR06-GW01-98A			WATER	1000ML	PLASTIC	1	None	X
IR06-GW01-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW01-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW01D-98A			WATER	1000ML	PLASTIC	1	None	X
IR06-GW01D-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW01D-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW01DA-98A			WATER	1000ML	PLASTIC	1	None	X
IR06-GW01DA-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW01DA-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW01DB-98A			WATER	1000ML	PLASTIC	1	None	X
IR06-GW01DB-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW01DB-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW01DE-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW01DE-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW01DE-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-GW02DW-98A			WATER	1000ML	PLASTIC	1	None	X
IR06-GW02DW-98A			WATER	1000ML	PLASTIC	1	Conc HNO3	X X
IR06-GW02DW-98A			WATER	1000ML	PLASTIC	1	None	X X
IR06-TB02-98A			Water	100mL	Plastic	3	1:1 HCl	X

Special Instructions

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)		
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.			
1. Relinquished By <u>RL Z</u>			Date <u>1-19-98</u> Time <u>1700</u>			1. Received By <u>FedEx</u> Date <u>1-19-98</u> Time <u>1700</u>		
2. Relinquished By			Date _____ Time _____			2. Received By _____ Date _____ Time _____		
3. Relinquished By			Date _____ Time _____			3. Received By _____ Date _____ Time _____		
Comments								

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



COC # 36798A-03

QUA-4149-1

* 0 0 0 7 5 3 - 0 0 2 *

Client Baker Environmental, Inc.			Project Manager Baker Environmental, Inc.			Date 01/08/1998			Page <u>2</u> of <u>6</u>		
Address Airport Office Park Bldg 3			Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)			Lab Location QUANTERRA - KNOXVILL			Analysis		
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.			M	M	T	T	S	S
Project Number/Name Camp LeJeune			Carrier/Waybill Number Fed Ex 802769750982			S	C	T	D	S	S
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 1998			QUOTE: 21108			8	L	C	S	S	S

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	M	T	T	S	S
				Volume	Type	No.								
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	X					
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X	X			
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X	
I R06-GW03D-98A	1-17	1220	WATER	40mL	VIAL	3	1:1 HCL	[REDACTED]	X					
I R06-GW03D-98A	1-17	1220	WATER	1000mL	PLASTIC	1	Conc HNO3	[REDACTED]		X	X			
I R06-GW03D-98A	1-17	1220	WATER	1000mL	PLASTIC	1	None	[REDACTED]				X	X	
I R06-GW15D-98A	1-19	0950	WATER	40mL	VIAL	3	1:1 HCL	[REDACTED]	X					
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X	X			
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X	
I R06-GW16-98A	1-19	1305	WATER	40mL	VIAL	3	1:1 HCL	[REDACTED]	X					
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X	X			
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X	
I R06-GW17-98A	1-17	1730	WATER	40mL	VIAL	3	1:1 HCL	[REDACTED]	X					
I R06-GW17-98A	1-17	1730	WATER	1000mL	PLASTIC	1	Conc HNO3	[REDACTED]		X	X			
I R06-GW17-98A	1-17	1730	WATER	1000mL	PLASTIC	1	None	[REDACTED]				X	X	

Special Instructions

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months		
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)			
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.				
1. Relinquished By <u>JL F. [Signature]</u>			Date	Time	1. Received By <u>Fed Ex</u>			Date	Time
			1-19-98	1700				1-19-98	1700
2. Relinquished By			Date	Time	2. Received By			Date	Time
3. Relinquished By			Date	Time	3. Received By			Date	Time

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 3 *

COC # 36798A-03

QUA-4149-1

Client Baker Environmental, Inc.			Project Manager Baker Environmental, Inc.			Date 01/08/1998			Page <u>3</u> of <u>6</u>		
Address Airport Office Park Bldg 3			Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)			Lab Location QUANTERRA - KNOXVILL			Analysis		
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.								
Project Number/Name Camp LeJeune			Carrier/Waybill Number Fed Ex 802769750982								
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :			QUOTE: 21108								

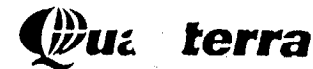
Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	H	M	F	T	D	B	C	L	P	B	D	B	
				Volume	Type	No.															
IR06-GW21-98A	1-18	0835	WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW21-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW21-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DW-98A	1-18	0930	WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW27DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW27DW-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DA-98A	1-17	1710	WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL														X
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW27DA-98A			WATER	40mL	VIAL	3	1:1 HCL														X

Special Instructions: **GW27DW has had VOAs in past > 5,000 ppb**

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)		
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.			
1. Relinquished By	Date	Time	1. Received By	Date	Time			
<i>JL F. Zuhl</i>	1-19-98	1700	Fed Ex	1-19-98	1700			
2. Relinquished By	Date	Time	2. Received By	Date	Time			
3. Relinquished By	Date	Time	3. Received By	Date	Time			

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 4 *

QUA-4149-1

Client Baker Environmental, Inc.			Project Manager Baker Environmental, Inc.			Date 01/08/1998			Page <u>4</u> of <u>8</u>			
Address Airport Office Park Bldg 3				Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)			Lab Location QUANTERRA - KNOXVILL			Analysis		
City Coraopolis	State PA	Zip Code 15108		Site Contact Baker Environmental, Inc.			M	M	M	T	T	T
Project Number/Name Camp LeJeune				Carrier/Waybill Number			S	C	T	D	S	S
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : 1998							8	L	C	S	S	S
				QUOTE: 21108			2	P	L			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	L	I	O	L	L								
				Volume	Type	No.															
IR06-GW30-98A IR06-GW30-98A	1-17	1115	WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW30DW-98A IR06-GW30DW-98A	1-17	1045	WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X												
IR06-GW30DW-98A			WATER	40mL	VIAL	3	1:1 HCL		X	X											

Special Instructions

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)											
Turn Around Time Required <input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)											
1. Relinquished By			Date			Time			1. Received By			Date			Time		
2. Relinquished By			Date			Time			2. Received By			Date			Time		
3. Relinquished By			Date			Time			3. Received By			Date			Time		

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



Coc # 36798A-03

* 0 0 0 7 5 3 - 0 0 5 *

QUA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998		Page <u>5</u> of <u>6</u>	
Address Airport Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL		Analysis	
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.				
Project Number/Name Camp LeJeune			Carrier/Waybill Number Fed Ex 802769750982				

CONTRACT / PURCHASE ORDER # : **1998** QUOTE: 21108

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments
				Volume	Type	No.		
1R06-GW35D-98A [REDACTED]	1-18	1700	WATER	40mL	VIAL	3	1:1 HCL	X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X
1R06-GW36D-98A [REDACTED]	1-19	1230	WATER	40mL	VIAL	3	1:1 HCL	X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X
1R06-GW37D-98A [REDACTED]	1-19	0945	WATER	40mL	VIAL	3	1:1 HCL	X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X
[REDACTED]			WATER	40mL	VIAL	3	1:1 HCL	X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X
1R06-GW40DW-98A [REDACTED]	1-18	1145	WATER	40mL	VIAL	3	1:1 HCL	X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X
[REDACTED]			WATER	1000mL	PLASTIC	1	[REDACTED]	X X

Special Instructions

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.		
1. Relinquished By [Signature]			Date	Time	1. Received By Fed Ex		Date
			1-19-98	1700			1-19-98
2. Relinquished By			Date	Time	2. Received By		Date
3. Relinquished By			Date	Time	3. Received By		Date

Comments



Chain of Custody Record

CHAIN OF CUSTODY NUMBER



COC# 36798A-03

* 0 0 0 7 5 3 - 0 0 6 *

QUA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998		Page <u>6</u> of <u>6</u>	
Address Airport Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL		Analysis	
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.				
Project Number/Name Camp LeJeune			Carrier/Waybill Number FedEx 802769750982				

CONTRACT / PURCHASE ORDER #: **1998** QUOTE: **21108**

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	M	M	T	T	S	S	S	S	
				Volume	Type	No.												
1R06-GW40DWA-98A	1-18	1700	WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL						X	X				
1R06-82W02-98A	1-17	1225	WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL						X	X				
1R06-82W03-98A	1-17	1510	WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL		X	X								
XXXXXXXXXX			WATER	40mL	VIAL	3	1:1 HCL						X	X				

GW not MW for both

Special Instructions

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown 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

OC Level I. II. III.

Project Specific Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
<i>R. F. Tull</i>	1-19-98	1700	FedEx	1-19-98	1700
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



COC# 36798A-04

* 0 0 0 7 5 3 - 0 0 2 *

QUA-4149-1

Client Baker Environmental, Inc.			Project Manager Baker Environmental, Inc.			Date 01/08/1998			Page 1 of 3		
Address Airport Office Park Bldg 3			Telephone Number (Area Code)/Fax Number (412) 289-6000 / (000)			Lab Location QUANTERRA - KNOXVILL			Analysis		
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.			Carrier/Waybill Number FedEx 802769750982					
Project Number/Name Camp LeJeune			Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :			QUOTE: 21108					

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	M	H	T	T	D	S	S														
				Volume	Type	No.																								
[REDACTED]									X																					
[REDACTED]									X	X																				
[REDACTED]												X	X																	
[REDACTED]									X																					
[REDACTED]									X	X																				
[REDACTED]									X																					
[REDACTED]									X																					
1R06-GW15D-98A	1-19	0950	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																				
1R06-GW15D-98A	1-19	0950	WATER	1000mL	PLASTIC	1	None								X	X														
[REDACTED]									X																					
1R06-GW16-98A	1-19	1305	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																				
1R06-GW16-98A	1-19	1305	WATER	1000mL	PLASTIC	1	None								X	X														
[REDACTED]									X																					
[REDACTED]									X	X																				
[REDACTED]															X	X														

Special Instructions

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)		
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)		
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.			
1. Relinquished By [Signature]			Date	Time	1. Received By FedEx		Date	Time
			1-19-98	1700			1-19-98	1700
2. Relinquished By			Date	Time	2. Received By		Date	Time
3. Relinquished By			Date	Time	3. Received By		Date	Time

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 3 *

loc # 36798A-04

OJA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998	Page 2 of 3
Address Airport Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL	
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.		
Project Number/Name Camp LeJeune			Carrier/Waybill Number Fed Ex 802769750982		
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :				QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	Analysis																			
				Volume	Type	No.			H	M	M	F	T	B	C	T	D	S	B	L	C	S	B	P	P	D	D	B
IR06-GW21-98A			WATER	1000mL	PLASTIC	1	Conc HNO3																					
IR06-GW21-98A	1-18	0835	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																		
IR06-GW21-98A	1-18	0835	WATER	1000mL	PLASTIC	1	None																					
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	Conc HNO3																					
IR06-GW27DW-98A	1-18	0930	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																		
IR06-GW27DW-98A	1-18	0930	WATER	1000mL	PLASTIC	1	None																					
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	Conc HNO3		X																			
IR06-GW27DA-98A	1-17	1710	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X																		
IR06-GW27DA-98A	1-17	1710	WATER	1000mL	PLASTIC	1	None																					
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	None		X																			
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	None			X	X																	
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	Conc HNO3		X																			
IR06-GW27DA-98A			WATER	1000mL	PLASTIC	1	None			X	X																	

Special Instructions

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 3 months)			
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months	
Turn Around Time Required			QC Level			Project Specific Requirements (Specify)			
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other	<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.				
1. Relinquished By <i>J. F. Tubel</i>			Date 1-19-98	Time 1700	1. Received By Fed Ex			Date 1-19-98	Time 1700
2. Relinquished By			Date	Time	2. Received By			Date	Time
3. Relinquished By			Date	Time	3. Received By			Date	Time

Comments

Chain of Custody Record



CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 4 *

COC # 36798A-04

QUA-4149-1

Client Baker Environmental, Inc.			Project Manager Baker Environmental, Inc.			Date 01/08/1998			Page 3 of 3		
Address Airport Office Park Bldg 3			Telephone Number (Area Code)/Fax Number (412) 289-8000 / (000)			Lab Location QUANTERRA - KNOXVILL			Analysis		
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.			M	M	M	T	T	T
Project Number/Name Camp LeJeune			Carrier/Waybill Number FedEx 802769750982			S	C	T	D	S	
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :			QUOTE: 21108			8	L	C	S	S	
						2	P	L			
						6	3	P			
						0	0	3			
						L	I	O			
						L	L	L			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	M	M	T	T	T
				Volume	Type	No.								
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]							
IR06-GW30-98A	1-17	1115	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X				
IR06-GW30-98A	1-17	1115	WATER	1000mL	PLASTIC	1	None				X	X		
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X					
IR06-GW30DW-98A	1-17	1045	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X				
IR06-GW30DW-98A	1-17	1045	WATER	1000mL	PLASTIC	1	None				X	X		
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X					
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X	X				
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X		
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X					
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		X	X				
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X		
[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]				X	X		

Special Instructions

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 3 months)					
Turn Around Time Required <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____			QC Level <input type="checkbox"/> I. <input type="checkbox"/> II. <input type="checkbox"/> III.			Project Specific Requirements (Specify)					
1. Relinquished By <u>[Signature]</u>			Date <u>1-19-98</u> Time <u>1700</u>			1. Received By <u>FedEx</u>			Date <u>1-19-98</u> Time <u>1700</u>		
2. Relinquished By _____			Date _____ Time _____			2. Received By _____			Date _____ Time _____		
3. Relinquished By _____			Date _____ Time _____			3. Received By _____			Date _____ Time _____		
Comments											



Chain of Custody Record

CHAIN OF CUSTODY NUMBER



* 0 0 0 7 5 3 - 0 0 6 *

COCH 36798A-05

QUA-4149-1

Client Baker Environmental, Inc.		Project Manager Baker Environmental, Inc.		Date 01/08/1998		Page <u>2</u> of <u>2</u>	
Address Airport Office Park Bldg 3		Telephone Number (Area Code)/Fax Number (412) 269-6000 / (000)		Lab Location QUANTERRA - KNOXVILL		Analysis	
City Coraopolis	State PA	Zip Code 15108	Site Contact Baker Environmental, Inc.		M M M T T S C T D S 8 L C S S 2 P L 6 3 P 0 0 3 L : O L L L		
Project Number/Name Camp LeJeune			Carrier/Waybill Number FedEx 802769750982				
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # :						QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers			Preservative	Condition on Receipt/Comments	M	M	M	T	T	S	S	S	S	S	S	
				Volume	Type	No.														
[REDACTED]			[REDACTED]						X											
IR06-GW40DWA-98A	1-18	1700	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X										
IR06-GW40DWA-98A	1-18	1700	WATER	1000mL	PLASTIC	1	None							X	X					
[REDACTED]			[REDACTED]						X											
IR06-82/MW02-98A	1-17	1225	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X										
IR06-82/MW02-98A	1-17	1225	WATER	1000mL	PLASTIC	1	None							X	X					
[REDACTED]			[REDACTED]						X											
IR06-82/MW03-98A	1-17	1510	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X										
IR06-82/MW03-98A	1-17	1510	WATER	1000mL	PLASTIC	1	None							X	X					
→ "GW" not "MW" for Bath																				

Special Instructions

Possible Hazard Identification										Sample Disposal									
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	(A fee may be assessed if samples are retained longer than 3 months)											

Turn Around Time Required				QC Level				Project Specific Requirements (Specify)															
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Other _____		<input type="checkbox"/> I.	<input type="checkbox"/> II.	<input type="checkbox"/> III.																	
1. Relinquished By				Date				Time				1. Received By				Date				Time			
Jh F. Zittel				1-19-98				1700				FedEx				1-19-98				1700			
2. Relinquished By				Date				Time				2. Received By				Date				Time			
3. Relinquished By				Date				Time				3. Received By				Date				Time			

Comments

ATTACHMENT B
MONITORING PROGRAM ANALYTICAL RESULTS

GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

SAMPLE ID	IR06-82GW02-98A	IR06-82GW03-98A	IR06-GW01-98A	IR06-GW01D-98A	IR06-GW01DA-98A	IR06-GW01DB-98A	IR06-GW02DW-98A
DATE SAMPLED	01-17-1998	01-17-1998	01-15-1998	01-15-1998	01-15-1998	01-15-1998	01-17-1998
VOLATILES (ug/L)							
1,1,1-Trichloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U	5 U	36000	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
2-Butanone	20 U	20 U	20 U	20000 U	20 U	20 U	20 U
2-Hexanone	20 U	20 U	20 U	20000 U	20 U	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U	20 U	20000 U	20 U	20 U	20 U
Acetone	20 U	20 U	20 U	20000 U	20 U	20 U	20 U
Benzene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Bromomethane	10 U	10 U	10 U	10000 U	10 U	10 U	10 U
Carbon disulfide	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Chloroethane	10 U	10 U	10 U	10000 U	10 U	10 U	10 U
Chloroform	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Chloromethane	10 U	10 U	10 U	10000 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Methylene chloride	2.3 JB	1.9 JB	7 B	2300 JB	2.6 JB	5.9 B	2.5 JB
Styrene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Tetrachloroethene	5 U	1.1 J	2.8 J	2000 J	5 U	1 J	5 U
Toluene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	5000 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	170000	0.93 J	5 U	5 U
Vinyl chloride	10 U	10 U	10 U	10000 U	10 U	10 U	10 U
Xylenes (total)	5 U	5 U	5 U	5000 U	5 U	5 U	5 U

GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

SAMPLE ID	IR06-GW03-98A	IR06-GW03D-98A	IR06-GW15D-98A	IR06-GW16-98A	IR06-GW17-98A	IR06-GW21-98A	IR06-GW27DA-98A
DATE SAMPLED	01-15-1998	01-17-1998	01-19-1998	01-19-1998	01-17-1998	01-18-1998	01-17-1998
VOLATILES (ug/L)							
1,1,1-Trichloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	4.6 J	5 U	5 U	100 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
2-Butanone	20 U	20 U	20 U	400 U	20 U	20 U	20 U
2-Hexanone	20 U	20 U	20 U	400 U	20 U	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U	20 U	400 U	20 U	20 U	20 U
Acetone	20 U	20 U	20 U	400 U	20 U	20 U	20 U
Benzene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Bromomethane	10 U	10 U	10 U	200 U	10 U	10 U	10 U
Carbon disulfide	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	2900	5 U	5 U	5 U
Chloroethane	10 U	10 U	10 U	200 U	10 U	10 U	10 U
Chloroform	0.86 J	5 U	5 U	100 U	5 U	5 U	5 U
Chloromethane	10 U	10 U	10 U	200 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Methylene chloride	6.9 B	5 U	1.2 JB	34 JB	5 U	2.2 JB	2.3 JB
Styrene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Tetrachloroethene	1.3 J	5 U	5 U	100 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	100 U	5 U	5 U	5 U
Vinyl chloride	10 U	10 U	10 U	200 U	10 U	10 U	10 U
Xylenes (total)	5 U	5 U	5 U	100 U	5 U	5 U	5 U

GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

SAMPLE ID	IR06-GW27DW-98A	IR06-GW28-98A	IR06-GW28DW-98A	IR06-GW30-98A	IR06-GW30DW-98A	IR06-GW32-98A	IR06-GW33-98A
DATE SAMPLED	01-18-1998	01-16-1998	01-16-1998	01-17-1998	01-17-1998	01-16-1998	01-16-1998
VOLATILES (ug/L)							
1,1,1-Trichloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	4400	12	1400	5 U	5 U	9.8	5 U
1,2-Dichloropropane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
2-Butanone	400 U	20 U	500 U	20 U	20 U	20 U	20 U
2-Hexanone	400 U	20 U	500 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone	400 U	20 U	500 U	20 U	20 U	20 U	20 U
Acetone	400 U	20 U	500 U	20 U	20 U	20 U	20 U
Benzene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Bromodichloromethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Bromoform	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Bromomethane	200 U	10 U	250 U	10 U	10 U	10 U	10 U
Carbon disulfide	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Chlorobenzene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Chloroethane	200 U	10 U	250 U	10 U	10 U	10 U	10 U
Chloroform	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Chloromethane	200 U	10 U	250 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Dibromochloromethane	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Ethylbenzene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Methylene chloride	25 JB	6.5 B	160 B	2.2 JB	2.5 JB	3.9 JB	6.3 B
Styrene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Tetrachloroethene	100 U	24	49 J	5 U	5 U	2.1 J	5 U
Toluene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	100 U	5 U	120 U	5 U	5 U	5 U	5 U
Trichloroethene	3500	39	4100	5 U	5 U	26	5 U
Vinyl chloride	200 U	10 U	250 U	10 U	10 U	10 U	10 U
Xylenes (total)	100 U	5 U	120 U	5 U	5 U	5 U	5 U

GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 VOLATILE ORGANICS

SAMPLE ID	IR06-GW34-98A	IR06-GW35D-98A	IR06-GW36D-98A	IR06-GW37D-98A	IR06-GW38D-98A	IR06-GW40DW-98A	IR06-GW40DWA-98A
DATE SAMPLED	01-16-1998	01-18-1998	01-19-1998	01-19-1998	01-16-1998	01-18-1998	01-18-1998
VOLATILES (ug/L)							
1,1,1-Trichloroethane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	11000	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	58	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	200	5 U	5 U	260	5 U	5 U	5 U
1,2-Dichloropropane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	100 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Hexanone	100 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone	100 U	20 U	20 U	20 U	20 U	20 U	20 U
Acetone	100 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	25 U	5 U	5 U	6.9	5 U	5 U	5 U
Bromodichloromethane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	50 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	35 B	2.1 JB	2.5 JB	2.2 JB	1.5 JB	1.5 JB	2.6 JB
Styrene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	120	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	25 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	510	5 U	5 U	6.5	5 U	5 U	5 U
Vinyl chloride	50 U	10 U	10 U	27	10 U	10 U	10 U
Xylenes (total)	25 U	5 U	5 U	5 U	5 U	5 U	5 U

**GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS AND WET CHEMISTRY**

SAMPLE ID	IR06-82GW02-98A	IR06-82GW03-98A	IR06-GW01-98A	IR06-GW01D-98A	IR06-GW01DA-98A	IR06-GW01DB-98A	IR06-GW02DW-98A
DATE SAMPLED	01-17-1998	01-17-1998	01-15-1998	01-15-1998	01-15-1998	01-15-1998	01-17-1998
TOTAL METALS (ug/L)							
Aluminum	180 B	3240	36.5 B	35.1 B	77.8 B	235	64.5 B
Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10 B	10 U	10 U	10 U	10 U	10 U	10 U
Barium	40.4 U	55.6 B	45.4 B	28.4 B	3.8 B	1.7 B	5.4 B
Beryllium	5 U	0.99 B	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	123000	2980 B	82500	137000	43900	9590	66900
Chromium	6.2 B	10 U	5.9 B	7.9 B	5.2 B	10 U	4.6 B
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	25 U	25 U	7.3 B	25 U	25 U	25 U	25 U
Iron	10900	1030	18.2 B	1020	92 B	167	455
Lead	3 U	1.4 B	3 U	3 U	3 U	3 U	3 U
Magnesium	9600	4520 B	5220	3140 B	3710 B	2870 B	1500 B
Manganese	63.8	87	1.5 B	38.4	19.6	2.4 B	9.1 B
Mercury	0.077 B	0.086 B	0.076 B	0.084 B	0.073 B	0.089 B	0.088 B
Nickel	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	5000 U	853 B	5550	1710 B	10800	12900	997 B
Selenium	5 U	5 U	27.3	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	83100	6840	7980	4860 B	26900	286000	4190 B
Thallium	4 B	5.2 B	10 U	10 U	10 U	4.7 B	4.2 B
Vanadium	26.5 B	11.1 B	24.7 B	30.1 B	18.1 B	12.1 B	20.6 B
Zinc	12.6 B	48.3	4.1 B	7.7 B	30.5	40.1	15.8 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	620	94	260	420	190	730	180
Total Suspended Solids	4 U	4 U	4 U	4 U	7	4	4 U

GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS AND WET CHEMISTRY

SAMPLE ID	IR06-GW03-98A	IR06-GW03D-98A	IR06-GW15D-98A	IR06-GW16-98A	IR06-GW17-98A	IR06-GW21-98A	IR06-GW27DA-98A
DATE SAMPLED	01-15-1998	01-17-1998	01-19-1998	01-19-1998	01-17-1998	01-18-1998	01-17-1998
TOTAL METALS (ug/L)							
Aluminum	58.1 B	157 B	48.4 B	1480	3050	352	120 B
Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	51.1 B	7.4 B	2.9 B	24.7 B	70.1 B	41.1 B	4 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	0.36 B
Cadmium	7.1	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	42600	56500	45400	9550	35200	5810	6820
Chromium	10 U	10 U	10 U	10 U	6.2 B	10 U	10 U
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	2.4 B	25 U	25 U	6.6 B	25 U	4.2 B	2.8 B
Iron	6.9 B	1070	299	783	1030	56.7 B	56.9 B
Lead	3 U	3 U	3 U	2.3 B	1.7 B	3 U	3 U
Magnesium	3380 B	1130 B	945 U	987 B	821 B	1430 B	974 B
Manganese	3 B	22.9	12.3 B	63	5.3 B	10.1 B	1.2 B
Mercury	0.12 B	0.084 B	0.084 B	0.082 B	0.083 B	0.077 B	0.16 B
Nickel	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	5180	749 B	5000 U	958 B	5000 U	5000 U	9180
Selenium	7.4	5 U	5 U	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	5130	3990 B	3660 B	11800	10500	6820	156000
Thallium	3.9 B	10 U	2.8 B	10 U	10 U	10 U	10 U
Vanadium	18.4 B	19.5 B	21.1 B	16.9 B	25.4 B	14.6 B	13.8 B
Zinc	815	12 B	24	303	24.6	12.3 B	12 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	170	150	130	100	180	66	440
Total Suspended Solids	4 U	4 U	4 U	10	4 U	4 U	4 U

**GROUNDWATER ANALYTICAL RESULTS
 OPERABLE UNIT NO. 2 - SITES 6 AND 82
 MONITORING AND O&M SUPPORT, CTO-0367
 MCB, CAMP LEJEUNE, NORTH CAROLINA
 TOTAL METALS AND WET CHEMISTRY**

SAMPLE ID	IR06-GW27DW-98A	IR06-GW28-98A	IR06-GW28DW-98A	IR06-GW30-98A	IR06-GW30DW-98A	IR06-GW32-98A	IR06-GW33-98A
DATE SAMPLED	01-18-1998	01-16-1998	01-16-1998	01-17-1998	01-17-1998	01-16-1998	01-16-1998
TOTAL METALS (ug/L)							
Aluminum	66.1 B	57.4 B	31.4 B	64 B	79.8 B	67.8 B	586
Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	6.8 B	20.3 B	6.8 B	7.7 B	3.8 B	23 B	61.1 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	64900	8370	63300	22400	71600	8120	1470 B
Chromium	3.8 B	10 U	5.6 B	10 U	5.6 B	10 U	10 U
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	5.8 B	2.6 B	25 U	25 U	7 B	25 U	3.4 B
Iron	526	100 U	709	220	1220	100 U	65.9 B
Lead	1.7 B	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium	1300 B	1760 B	1310 B	1860 B	1590 B	1870 B	3410 B
Manganese	9.9 B	9.9 B	16	27.2	35.5	5.7 B	10.6 B
Mercury	0.15 B	0.093 B	0.086 B	0.08 B	0.094 B	0.087 B	0.084 B
Nickel	40 U	40 U	10 B	11.5 B	40 U	40 U	40 U
Potassium	852 B	1100 B	1490 B	922 B	1090 B	641 B	5000 U
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	4390 B	10000	4770 B	6130	6160	7170	10800
Thallium	4.4 B	3.3 B	10 U	3 B	4.2 B	10 U	10 U
Vanadium	24.6 B	12.4 B	17.6 B	15.7 B	23.3 B	9.8 B	10.6 B
Zinc	17.7 B	10.6 B	4.6 B	99.7	16.6 B	16.8 B	7.2 B
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	180	65	180	93	180	61	64
Total Suspended Solids	4 U	4 U	4 U	4 U	4 U	4 U	4 U

**GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 2 - SITES 6 AND 82
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS AND WET CHEMISTRY**

SAMPLE ID	IR06-GW34-98A	IR06-GW35D-98A	IR06-GW36D-98A	IR06-GW37D-98A	IR06-GW38D-98A	IR06-GW40DW-98A	IR06-GW40DWA-98A
DATE SAMPLED	01-16-1998	01-18-1998	01-19-1998	01-19-1998	01-16-1998	01-18-1998	01-18-1998
TOTAL METALS (ug/L)							
Aluminum	888	35.2 B	40.4 B	40.8 B	29.3 B	50.8 B	402
Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	96.8 B	10 B	5.9 B	7.6 B	200 U	7 B	6.1 B
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	8310	78800	67500	53400	2830 B	67800	22800
Chromium	10 U	10 U	3.4 B	10 U	10 U	10 U	5.4 B
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Iron	100 U	671	673	370	5.3 B	737	571
Lead	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Magnesium	7800	1970 B	1480 B	1240 B	1340 B	1420 B	11000
Manganese	37.2	30	34.4	7.5 B	1 B	16.3	10.7 B
Mercury	0.18 B	0.09 B	0.11 B	0.082 B	0.12 B	0.2 U	0.1 B
Nickel	9.7 B	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	11200	1300 B	1230 B	754 B	9630	796 B	23800
Selenium	18.1	5 U	5 U	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	15300	7290	5590	4780 B	198000	4820 B	574000
Thallium	4 B	2.9 B	2.8 B	3.9 B	10 U	2.7 B	4.9 B
Vanadium	11.5 B	21.6 B	22 B	19.8 B	7.8 B	20.8 B	15.1 B
Zinc	97.3	17.2 B	16.1 B	3.3 B	9 B	14.2 B	28.4
WET CHEMISTRY (mg/L)							
Total Dissolved Solids	150	230	170	170	510	170	1600
Total Suspended Solids	4 U	4 U	4 U	4 U	4 U	4 U	15

ATTACHMENT C
ANALYTICAL LABORATORY DATA SHEETS

BAKER ENVIRONMENTAL, INC.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8A200129 017

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WG101

Date Extracted: 01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-82GW02-98A

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	2.3	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

Lab Sample ID:H8A200129 017

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WG101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-82GW02-98A

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.

Client Sample ID: IR06-82GW02-98A

TOTAL Metals

Lot-Sample #....: H8A200129-017

Date Sampled....: 01/17/98

Date Received...: 01/20/98

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #....: 8024108						
Mercury	0.077 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWG10R
		Dilution Factor: 1				
Prep Batch #....: 8027103						
Aluminum	180 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWG10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWG10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG103
		Dilution Factor: 1				
Barium	40.4 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWG10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG105
		Dilution Factor: 1				
Thallium	4.0 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWG10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG106
		Dilution Factor: 1				
Calcium	123000	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG107
		Dilution Factor: 1				
Chromium	6.2 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10A
		Dilution Factor: 1				

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-82GW02-98A

TOTAL Metals

Lot-Sample #...: H8A200129-017

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Iron	10900	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10C
		Dilution Factor: 1				
Magnesium	9600	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10D
		Dilution Factor: 1				
Manganese	63.8	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10F
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10H
		Dilution Factor: 1				
Sodium	83100	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10J
		Dilution Factor: 1				
Vanadium	26.5 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10K
		Dilution Factor: 1				
Zinc	12.6 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWG10L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-82GW02-98A

General Chemistry

Lot-Sample #....: H8A200129-017
Date Sampled....: 01/17/98Work Order #....: CF0WG
Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	620	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 018

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WH101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-82GW03-98A

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	1.1	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 018

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WH101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-82GW03-98A

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.

Client Sample ID: IR06-82GW03-98A

TOTAL Metals

Lot-Sample #...: H8A200129-018

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8024108						
Mercury	0.086 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWH10R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	3240	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWH10M
		Dilution Factor: 1				
Lead	1.4 B	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWH10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH103
		Dilution Factor: 1				
Barium	55.6 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWH10P
		Dilution Factor: 1				
Beryllium	0.99 B	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH105
		Dilution Factor: 1				
Thallium	5.2 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWH10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH106
		Dilution Factor: 1				
Calcium	2980 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-82GW03-98A

TOTAL Metals

Lot-Sample #...: H8A200129-018

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Iron	1030	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10C
		Dilution Factor: 1				
Magnesium	4520 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10D
		Dilution Factor: 1				
Manganese	87.0	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10F
		Dilution Factor: 1				
Potassium	853 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10H
		Dilution Factor: 1				
Sodium	6840	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10J
		Dilution Factor: 1				
Vanadium	11.1 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10K
		Dilution Factor: 1				
Zinc	48.3	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWH10L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-82GW03-98A

General Chemistry

Lot-Sample #....: H8A200129-018
 Date Sampled....: 01/17/98

Work Order #....: CFOWH
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	94	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF08W10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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	7.0	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	2.8	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF08W10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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.

Client Sample ID: IR06-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A190128-001
Date Sampled...: 01/15/98

Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8022106						
Aluminum	36.5 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W102
		Dilution Factor: 1				
Barium	45.4 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W103
		Dilution Factor: 1				
Selenium	27.3	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W105
		Dilution Factor: 1				
Calcium	82500	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W106
		Dilution Factor: 1				
Chromium	5.9 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W108
		Dilution Factor: 1				
Copper	7.3 B	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W109
		Dilution Factor: 1				
Iron	18.2 B	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A190128-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Magnesium	5220	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10C
		Dilution Factor: 1				
Manganese	1.5 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10E
		Dilution Factor: 1				
Potassium	5550	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10G
		Dilution Factor: 1				
Sodium	7980	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10H
		Dilution Factor: 1				
Vanadium	24.7 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10J
		Dilution Factor: 1				
Zinc	4.1 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF08W10K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.076 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF08W10Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01-98A

General Chemistry

Lot-Sample #...: H8A190128-001
Date Sampled...: 01/15/98Work Order #...: CF08W
Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	260	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
		Dilution Factor: 1				
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
		Dilution Factor: 1				

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09310R

Date Extracted:01/26/98

Dilution factor: 1000

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01D-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
74-87-3	Chloromethane	10000	U
74-83-9	Bromomethane	10000	U
75-01-4	Vinyl chloride	10000	U
75-00-3	Chloroethane	10000	U
75-09-2	Methylene chloride	2300	J B
67-64-1	Acetone	20000	U
75-15-0	Carbon disulfide	5000	U
75-35-4	1,1-Dichloroethene	5000	U
75-34-3	1,1-Dichloroethane	5000	U
540-59-0	1,2-Dichloroethene (total)	36000	
67-66-3	Chloroform	5000	U
107-06-2	1,2-Dichloroethane	5000	U
78-93-3	2-Butanone	20000	U
71-55-6	1,1,1-Trichloroethane	5000	U
56-23-5	Carbon tetrachloride	5000	U
75-27-4	Bromodichloromethane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
79-01-6	Trichloroethene	170000	
124-48-1	Dibromochloromethane	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
71-43-2	Benzene	5000	U
10061-02-6	trans-1,3-Dichloropropene	5000	U
75-25-2	Bromoform	5000	U
108-10-1	4-Methyl-2-pentanone	20000	U
591-78-6	2-Hexanone	20000	U
127-18-4	Tetrachloroethene	2000	J
79-34-5	1,1,2,2-Tetrachloroethane	5000	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09310R

Date Extracted:01/26/98

Dilution factor: 1000

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01D-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
108-88-3	Toluene	5000	U
108-90-7	Chlorobenzene	5000	U
100-41-4	Ethylbenzene	5000	U
100-42-5	Styrene	5000	U
1330-20-7	Xylenes (total)	5000	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01D-98A

TOTAL Metals

Lot-Sample #...: H8A190128-002

Matrix.....: WATER

Date Sampled...: 01/15/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8022106						
Aluminum	35.1 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093102
		Dilution Factor: 1				
Barium	28.4 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093104
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093105
		Dilution Factor: 1				
Calcium	137000	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093106
		Dilution Factor: 1				
Chromium	7.9 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF093109
		Dilution Factor: 1				
Iron	1020	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01D-98A

TOTAL Metals

Lot-Sample #...: H8A190128-002

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Magnesium	3140 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310C
		Dilution Factor: 1				
Manganese	38.4	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310E
		Dilution Factor: 1				
Potassium	1710 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310G
		Dilution Factor: 1				
Sodium	4860 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310H
		Dilution Factor: 1				
Vanadium	30.1 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310J
		Dilution Factor: 1				
Zinc	7.7 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09310K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.084 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09310Q
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01D-98A

General Chemistry

Lot-Sample #....: H8A190128-002
 Date Sampled....: 01/15/98

Work Order #....: CF093
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	420	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09510R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01DA-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	2.6	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	0.93	J
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

Lab Sample ID:H8A190128 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09510R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01DA-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.

Client Sample ID: IR06-GW01DA-98A

TOTAL Metals

Lot-Sample #...: H8A190128-003

Matrix.....: WATER

Date Sampled...: 01/15/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8022106						
Aluminum	77.8 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095101
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095102
		Dilution Factor: 1				
Barium	3.8 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510E
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095105
		Dilution Factor: 1				
Calcium	43900	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095106
		Dilution Factor: 1				
Chromium	5.2 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF095109
		Dilution Factor: 1				
Iron	92.0 B	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510Z
		Dilution Factor: 1				

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01DA-98A

TOTAL Metals

Lot-Sample #...: H8A190128-003

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Magnesium	3710 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510C
		Dilution Factor: 1				
Manganese	19.6	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510E
		Dilution Factor: 1				
Potassium	10800	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510G
		Dilution Factor: 1				
Sodium	26900	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510H
		Dilution Factor: 1				
Vanadium	18.1 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510J
		Dilution Factor: 1				
Zinc	30.5	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09510K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.073 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09510Q
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01DA-98A

General Chemistry

Lot-Sample #....: H8A190128-003
Date Sampled...: 01/15/98Work Order #....: CF095
Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	190	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	7.0	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09610R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01DB-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	5.9	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	1.0	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09610R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW01DB-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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.

Client Sample ID: IR06-GW01DB-98A

TOTAL Metals

Lot-Sample #...: H8A190128-004

Matrix.....: WATER

Date Sampled...: 01/15/98

Date Received...: 01/17/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8022106						
Aluminum	235	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096102
		Dilution Factor: 1				
Barium	1.7 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096104
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096104
		Dilution Factor: 1				
Thallium	4.7 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096105
		Dilution Factor: 1				
Calcium	9590	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF096109
		Dilution Factor: 1				
Iron	167	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01DB-98A

TOTAL Metals

Lot-Sample #...: H8A190128-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Magnesium	2870 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610C
		Dilution Factor: 1				
Manganese	2.4 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610E
		Dilution Factor: 1				
Potassium	12900	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610G
		Dilution Factor: 1				
Sodium	286000	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610H
		Dilution Factor: 1				
Vanadium	12.1 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610J
		Dilution Factor: 1				
Zinc	40.1	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09610K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.089 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09610Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW01DB-98A

General Chemistry

Lot-Sample #....: H8A190128-004

Work Order #....: CF096

Matrix.....: WATER

Date Sampled....: 01/15/98

Date Received...: 01/17/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	730	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	4.0	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VT101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8023102

Client Sample Id: IR06-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	2.5	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

Lab Sample ID:H8A200129 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VT101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8023102

Client Sample Id: IR06-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.

Client Sample ID: IR06-GW02DW-98A

TOTAL Metals

Lot-Sample #....: H8A200129-001

Matrix.....: WATER

Date Sampled....: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 8024108						
Mercury	0.088 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF0VT10R
		Dilution Factor: 1				
Prep Batch #....: 8027103						
Aluminum	64.5 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VT10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VT10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT103
		Dilution Factor: 1				
Barium	5.4 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VT10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT105
		Dilution Factor: 1				
Thallium	4.2 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VT10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT106
		Dilution Factor: 1				
Calcium	66900	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT107
		Dilution Factor: 1				
Chromium	4.6 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW02DW-98A

TOTAL Metals

Lot-Sample #....: H8A200129-001

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Iron	455	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10C
		Dilution Factor: 1				
Magnesium	1500 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10D
		Dilution Factor: 1				
Manganese	9.1 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10F
		Dilution Factor: 1				
Potassium	997 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10H
		Dilution Factor: 1				
Sodium	4190 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0V J
		Dilution Factor: 1				
Vanadium	20.6 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10K
		Dilution Factor: 1				
Zinc	15.8 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VT10L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW02DW-98A

General Chemistry

Lot-Sample #....: H8A200129-001

Work Order #....: CF0VT

Matrix.....: WATER

Date Sampled....: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	180	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09810R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW03-98A

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	6.9	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)	4.6	J
67-66-3	Chloroform	0.86	J
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	1.3	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09810R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW03-98A

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.

Client Sample ID: IR06-GW03-98A

TOTAL Metals

Lot-Sample #...: H8A190128-005

Matrix.....: WATER

Date Sampled...: 01/15/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8022106						
Aluminum	58.1 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098102
		Dilution Factor: 1				
Barium	51.1 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098103
		Dilution Factor: 1				
Selenium	7.4	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098104
		Dilution Factor: 1				
Thallium	3.9 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810P
		Dilution Factor: 1				
Cadmium	7.1	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098105
		Dilution Factor: 1				
Calcium	42600	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098108
		Dilution Factor: 1				
Copper	2.4 B	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF098109
		Dilution Factor: 1				
Iron	6.9 B	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810A
		Dilution Factor: 1				

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW03-98A

TOTAL Metals

Lot-Sample #....: H8A190128-005

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Magnesium	3380 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810C
		Dilution Factor: 1				
Manganese	3.0 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810E
		Dilution Factor: 1				
Potassium	5180	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810G
		Dilution Factor: 1				
Sodium	5130	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810H
		Dilution Factor: 1				
Vanadium	18.4 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810J
		Dilution Factor: 1				
Zinc	815	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09810K
		Dilution Factor: 1				
Prep Batch #....: 8024107						
Mercury	0.12 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09810Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW03-98A

General Chemistry

Lot-Sample #...: H8A190128-005
 Date Sampled...: 01/15/98

Work Order #...: CF098
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VW10R

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW03D-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	5.0	U
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

Lab Sample ID:H8A200129 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VW10R

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW03D-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.

Client Sample ID: IR06-GW03D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-003

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8024108						
Mercury	0.084 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF0VW10Q
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	157 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VW10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VW10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW102
		Dilution Factor: 1				
Barium	7.4 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VW10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0VW10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW105
		Dilution Factor: 1				
Calcium	56500	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0VW109
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW03D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-003

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Iron	1070	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10A
		Dilution Factor: 1				
Magnesium	1130 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10C
		Dilution Factor: 1				
Manganese	22.9	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10E
		Dilution Factor: 1				
Potassium	749 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10G
		Dilution Factor: 1				
Sodium	3990 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10H
		Dilution Factor: 1				
Vanadium	19.5 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10J
		Dilution Factor: 1				
Zinc	12.0 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOVW10K
		Dilution Factor: 1				

NOTE (S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW03D-98A

General Chemistry

Lot-Sample #....: H8A200129-003
 Date Sampled....: 01/17/98

Work Order #....: CF0VW
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	150	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW2101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW15D-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

Lab Sample ID:H8A200129 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW2101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW15D-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.

Client Sample ID: IR06-GW15D-98A

TOTAL Metals

Lot-Sample #....: H8A200129-004

Matrix.....: WATER

Date Sampled....: 01/19/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 8024108						
Mercury	0.084 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW210R
		Dilution Factor: 1				
Prep Batch #....: 8027103						
Aluminum	48.4 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW210M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW210N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2103
		Dilution Factor: 1				
Barium	2.9 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW210P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2105
		Dilution Factor: 1				
Thallium	2.8 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW210Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2106
		Dilution Factor: 1				
Calcium	45400	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW2109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW210A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW15D-98A

TOTAL Metals

Lot-Sample #....: H8A200129-004

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>	
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>	
Iron	299	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210C	
		Dilution Factor: 1					
Magnesium	945 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210E	
		Dilution Factor: 1					
Manganese	12.3 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210E	
		Dilution Factor: 1					
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210F	
		Dilution Factor: 1					
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210G	
		Dilution Factor: 1					
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210H	
		Dilution Factor: 1					
Sodium	3660 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210J	
		Dilution Factor: 1					
Vanadium	21.1 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210E	
		Dilution Factor: 1					
Zinc	24.0	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W210I	
		Dilution Factor: 1					

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW15D-98A

General Chemistry

Lot-Sample #...: H8A200129-004
 Date Sampled...: 01/19/98

Work Order #...: CFW2
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	130	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
				Dilution Factor: 1		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
				Dilution Factor: 1		

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW3101

Date Extracted:01/27/98

Dilution factor: 20

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW16-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl chloride	200	U
75-00-3	Chloroethane	200	U
75-09-2	Methylene chloride	34	J B
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
540-59-0	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	100	U
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-pentanone	400	U
591-78-6	2-Hexanone	400	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W3101

Date Extracted:01/27/98

Dilution factor: 20

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW16-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
108-88-3	Toluene	100	U
108-90-7	Chlorobenzene	2900	
100-41-4	Ethylbenzene	100	U
100-42-5	Styrene	100	U
1330-20-7	Xylenes (total)	100	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW16-98A

TOTAL Metals

Lot-Sample #...: H8A200129-005

Matrix.....: WATER

Date Sampled...: 01/19/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8024108						
Mercury	0.082 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW310R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	1480	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW310M
		Dilution Factor: 1				
Lead	2.3 B	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW310N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3103
		Dilution Factor: 1				
Barium	24.7 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW310P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3105
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW310Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3106
		Dilution Factor: 1				
Calcium	9550	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW3109
		Dilution Factor: 1				
Copper	6.6 B	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW16-98A

TOTAL Metals

Lot-Sample #...: H8A200129-005

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Iron	783	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310C
		Dilution Factor: 1				
Magnesium	987 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310D
		Dilution Factor: 1				
Manganese	63.0	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310F
		Dilution Factor: 1				
Potassium	958 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310H
		Dilution Factor: 1				
Sodium	11800	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310J
		Dilution Factor: 1				
Vanadium	16.9 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310K
		Dilution Factor: 1				
Zinc	303	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW310L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW16-98A

General Chemistry

Lot-Sample #....: H8A200129-005

Work Order #....: CFOW3

Matrix.....: WATER

Date Sampled....: 01/19/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	100	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	10	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW4101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW17-98A

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	5.0	U
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

Lab Sample ID:H8A200129 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W4101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW17-98A

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.

Client Sample ID: IR06-GW17-98A

TOTAL Metals

Lot-Sample #...: H8A200129-006

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.083 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW410R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	3050	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW410M
		Dilution Factor: 1				
Lead	1.7 B	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW410N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4103
		Dilution Factor: 1				
Barium	70.1 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW410P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4105
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW410Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4106
		Dilution Factor: 1				
Calcium	35200	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4107
		Dilution Factor: 1				
Chromium	6.2 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW410A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW17-98A

TOTAL Metals

Lot-Sample #....: H8A200129-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	1030	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Magnesium	821 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Manganese	5.3 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Sodium	10500	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Vanadium	25.4 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				
Zinc	24.6	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW4100
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW17-98A

General Chemistry

Lot-Sample #...: H8A200129-006

Work Order #...: CF0W4

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	180	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW5101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW21-98A

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

Lab Sample ID:H8A200129 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W5101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW21-98A

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.

Client Sample ID: IR06-GW21-98A

TOTAL Metals

Lot-Sample #...: H8A200129-007

Matrix.....: WATER

Date Sampled...: 01/18/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8024108						
Mercury	0.077 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW510R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	352	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW510M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW510N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5103
		Dilution Factor: 1				
Barium	41.1 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW510P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5105
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW510Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5106
		Dilution Factor: 1				
Calcium	5810	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW5109
		Dilution Factor: 1				
Copper	4.2 B	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW21-98A

TOTAL Metals

Lot-Sample #...: H8A200129-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Iron	56.7 B	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510C
		Dilution Factor: 1				
Magnesium	1430 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510D
		Dilution Factor: 1				
Manganese	10.1 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510F
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510H
		Dilution Factor: 1				
Sodium	6820	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510J
		Dilution Factor: 1				
Vanadium	14.6 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510K
		Dilution Factor: 1				
Zinc	12.3 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW510L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW21-98A

General Chemistry

Lot-Sample #....: H8A200129-007
 Date Sampled....: 01/18/98

Work Order #....: CF0W5
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	66	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW7101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW27DA-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	2.3	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

Lab Sample ID:H8A200129 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W7101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW27DA-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.

Client Sample ID: IR06-GW27DA-98A

TOTAL Metals

Lot-Sample #...: H8A200129-009

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.16 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW710R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	120 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW710M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW710N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7103
		Dilution Factor: 1				
Barium	4.0 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW710P
		Dilution Factor: 1				
Beryllium	0.36 B	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7105
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW710Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7106
		Dilution Factor: 1				
Calcium	6820	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW7109
		Dilution Factor: 1				
Copper	2.8 B	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710A
		Dilution Factor: 1				

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW27DA-98A

TOTAL Metals

Lot-Sample #....: H8A200129-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	56.9 B	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710C
		Dilution Factor: 1				
Magnesium	974 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710D
		Dilution Factor: 1				
Manganese	1.2 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710F
		Dilution Factor: 1				
Potassium	9180	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710H
		Dilution Factor: 1				
Sodium	156000	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710J
		Dilution Factor: 1				
Vanadium	13.8 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710K
		Dilution Factor: 1				
Zinc	12.0 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW710L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW27DA-98A

General Chemistry

Lot-Sample #....: H8A200129-009

Work Order #....: CF0W7

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	440	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW6101

Date Extracted:01/27/98

Dilution factor: 20

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW27DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl chloride	200	U
75-00-3	Chloroethane	200	U
75-09-2	Methylene chloride	25	J B
67-64-1	Acetone	400	U
75-15-0	Carbon disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
540-59-0	1,2-Dichloroethene (total)	4400	
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	100	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon tetrachloride	100	U
75-27-4	Bromodichloromethane	100	U
78-87-5	1,2-Dichloropropane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
79-01-6	Trichloroethene	3500	
124-48-1	Dibromochloromethane	100	U
79-00-5	1,1,2-Trichloroethane	100	U
71-43-2	Benzene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
75-25-2	Bromoform	100	U
108-10-1	4-Methyl-2-pentanone	400	U
591-78-6	2-Hexanone	400	U
127-18-4	Tetrachloroethene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W6101

Date Extracted:01/27/98

Dilution factor: 20

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW27DW-98A

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

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW27DW-98A

TOTAL Metals

Lot-Sample #...: H8A200129-008

Matrix.....: WATER

Date Sampled...: 01/18/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #...: 8024108						
Mercury	0.15 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW610R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	66.1 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW610M
		Dilution Factor: 1				
Lead	1.7 B	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW610N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6103
		Dilution Factor: 1				
Barium	6.8 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW610P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6105
		Dilution Factor: 1				
Thallium	4.4 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW610Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6106
		Dilution Factor: 1				
Calcium	64900	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6107
		Dilution Factor: 1				
Chromium	3.8 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW6109
		Dilution Factor: 1				
Copper	5.8 B	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW27DW-98A

TOTAL Metals

Lot-Sample #...: H8A200129-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	526	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610C
		Dilution Factor: 1				
Magnesium	1300 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610D
		Dilution Factor: 1				
Manganese	9.9 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610F
		Dilution Factor: 1				
Potassium	852 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610H
		Dilution Factor: 1				
Sodium	4390 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610J
		Dilution Factor: 1				
Vanadium	24.6 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610K
		Dilution Factor: 1				
Zinc	17.7 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW610L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW27DW-98A

General Chemistry

Lot-Sample #....: H8A200129-008

Work Order #....: CF0W6

Matrix.....: WATER

Date Sampled....: 01/18/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	180	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09G10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW28-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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	6.5	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)	12	
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	39	
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	24	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09G10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW28-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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.

Client Sample ID: IR06-GW28-98A

TOTAL Metals

Lot-Sample #...: H8A190128-008

Matrix.....: WATER

Date Sampled...: 01/16/98

Date Received...: 01/17/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8022106						
Aluminum	57.4 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G102
		Dilution Factor: 1				
Barium	20.3 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G104
		Dilution Factor: 1				
Thallium	3.3 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G105
		Dilution Factor: 1				
Calcium	8370	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G108
		Dilution Factor: 1				
Copper	2.6 B	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G109
		Dilution Factor: 1				
Iron	ND	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW28-98A

TOTAL Metals

Lot-Sample #...: H8A190128-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	1760 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10C
		Dilution Factor: 1				
Manganese	9.9 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10E
		Dilution Factor: 1				
Potassium	1100 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10G
		Dilution Factor: 1				
Sodium	10000	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10H
		Dilution Factor: 1				
Vanadium	12.4 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10J
		Dilution Factor: 1				
Zinc	10.6 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09G10K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.093 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09G10Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW28-98A

General Chemistry

Lot-Sample #....: H8A190128-008
 Date Sampled....: 01/16/98

Work Order #....: CF09G
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	65	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09F10R

Date Extracted:01/26/98

Dilution factor: 25

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW28DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene chloride	160	B
67-64-1	Acetone	500	U
75-15-0	Carbon disulfide	120	U
75-35-4	1,1-Dichloroethene	120	U
75-34-3	1,1-Dichloroethane	120	U
540-59-0	1,2-Dichloroethene (total)	1400	
67-66-3	Chloroform	120	U
107-06-2	1,2-Dichloroethane	120	U
78-93-3	2-Butanone	500	U
71-55-6	1,1,1-Trichloroethane	120	U
56-23-5	Carbon tetrachloride	120	U
75-27-4	Bromodichloromethane	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
79-01-6	Trichloroethene	4100	
124-48-1	Dibromochloromethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
71-43-2	Benzene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
75-25-2	Bromoform	120	U
108-10-1	4-Methyl-2-pentanone	500	U
591-78-6	2-Hexanone	500	U
127-18-4	Tetrachloroethene	49	J
79-34-5	1,1,2,2-Tetrachloroethane	120	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09F10R

Date Extracted:01/26/98

Dilution factor: 25

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW28DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
108-88-3	Toluene	120	U
108-90-7	Chlorobenzene	120	U
100-41-4	Ethylbenzene	120	U
100-42-5	Styrene	120	U
1330-20-7	Xylenes (total)	120	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW28DW-98A

TOTAL Metals

Lot-Sample #...: H8A190128-007

Date Sampled...: 01/16/98

Date Received...: 01/17/98

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Prep Batch #...: 8022106						
Aluminum	31.4 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F102
		Dilution Factor: 1				
Barium	6.8 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F105
		Dilution Factor: 1				
Calcium	63300	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F106
		Dilution Factor: 1				
Chromium	5.6 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F109
		Dilution Factor: 1				
Iron	709	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW28DW-98A

TOTAL Metals

Lot-Sample #....: H8A190128-007

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Magnesium	1310 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10C
		Dilution Factor: 1				
Manganese	16.0	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10D
		Dilution Factor: 1				
Nickel	10.0 B	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10E
		Dilution Factor: 1				
Potassium	1490 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10G
		Dilution Factor: 1				
Sodium	4770 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10H
		Dilution Factor: 1				
Vanadium	17.6 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF05 J
		Dilution Factor: 1				
Zinc	4.6 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09F10K
		Dilution Factor: 1				
Prep Batch #....: 8024107						
Mercury	0.086 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09F10Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW28DW-98A

General Chemistry

Lot-Sample #...: H8A190128-007
 Date Sampled...: 01/16/98

Work Order #...: CF09F
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	180	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8A200129 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W8101

Date Extracted: 01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW30-98A

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

Lab Sample ID:H8A200129 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W8101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW30-98A

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.

Client Sample ID: IR06-GW30-98A

TOTAL Metals

Lot-Sample #...: H8A200129-010

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.080 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOW810R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	64.0 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW810M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW810N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8103
		Dilution Factor: 1				
Barium	7.7 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW810P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8105
		Dilution Factor: 1				
Thallium	3.0 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOW810Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8106
		Dilution Factor: 1				
Calcium	22400	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW8109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW30-98A

TOTAL Metals

Lot-Sample #...: H8A200129-010

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Iron	220	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810C
		Dilution Factor: 1				
Magnesium	1860 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810D
		Dilution Factor: 1				
Manganese	27.2	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810E
		Dilution Factor: 1				
Nickel	11.5 B	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810F
		Dilution Factor: 1				
Potassium	922 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810H
		Dilution Factor: 1				
Sodium	6130	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810J
		Dilution Factor: 1				
Vanadium	15.7 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810K
		Dilution Factor: 1				
Zinc	99.7	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW810L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW30-98A

General Chemistry

Lot-Sample #....: H8A200129-010

Work Order #....: CF0W8

Matrix.....: WATER

Date Sampled....: 01/17/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	93	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOW9101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW30DW-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	2.5	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

Lab Sample ID:H8A200129 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0W9101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/30/98

QC Batch: 8027164

Client Sample Id: IR06-GW30DW-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.

Client Sample ID: IR06-GW30DW-98A

TOTAL Metals

Lot-Sample #...: H8A200129-011

Matrix.....: WATER

Date Sampled...: 01/17/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8024108						
Mercury	0.094 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF0W910R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	79.8 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0W910M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0W910N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9103
		Dilution Factor: 1				
Barium	3.8 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0W910P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9105
		Dilution Factor: 1				
Thallium	4.2 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0W910Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9106
		Dilution Factor: 1				
Calcium	71600	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9107
		Dilution Factor: 1				
Chromium	5.6 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W9109
		Dilution Factor: 1				
Copper	7.0 B	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0W910A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW30DW-98A

TOTAL Metals

Lot-Sample #....: H8A200129-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	1220	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910C
		Dilution Factor: 1				
Magnesium	1590 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910I
		Dilution Factor: 1				
Manganese	35.5	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910J
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910E
		Dilution Factor: 1				
Potassium	1090 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910C
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910H
		Dilution Factor: 1				
Sodium	6160	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910J
		Dilution Factor: 1				
Vanadium	23.3 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910K
		Dilution Factor: 1				
Zinc	16.6 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOW910L
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW30DW-98A

General Chemistry

Lot-Sample #....: H8A200129-011
 Date Sampled....: 01/17/98

Work Order #....: CF0W9
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	180	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09H10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW32-98A

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	3.9	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)	9.8	
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	26	
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	2.1	J
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09H10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW32-98A

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.

Client Sample ID: IR06-GW32-98A

TOTAL Metals

Lot-Sample #...: H8A190128-009

Matrix.....: WATER

Date Sampled...: 01/16/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8022106						
Aluminum	67.8 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H102
		Dilution Factor: 1				
Barium	23.0 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H105
		Dilution Factor: 1				
Calcium	8120	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H109
		Dilution Factor: 1				
Iron	ND	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW32-98A

TOTAL Metals

Lot-Sample #....: H8A190128-009

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Magnesium	1870 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10C
		Dilution Factor: 1				
Manganese	5.7 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10E
		Dilution Factor: 1				
Potassium	641 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10G
		Dilution Factor: 1				
Sodium	7170	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10H
		Dilution Factor: 1				
Vanadium	9.8 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10J
		Dilution Factor: 1				
Zinc	16.8 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09H10K
		Dilution Factor: 1				
Prep Batch #....: 8024107						
Mercury	0.087 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09H10Q
		Dilution Factor: 1				

NOTE (S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW32-98A

General Chemistry

Lot-Sample #....: H8A190128-009
 Date Sampled....: 01/16/98

Work Order #....: CF09H
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	61	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
			Dilution Factor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
			Dilution Factor: 1			

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09C10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW33-98A

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	6.3	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

Lab Sample ID:H8A190128 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09C10R

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW33-98A

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.

Client Sample ID: IR06-GW33-98A

TOTAL Metals

Lot-Sample #...: H8A190128-006

Matrix.....: WATER

Date Sampled...: 01/16/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8022106						
Aluminum	586	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10L
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C102
		Dilution Factor: 1				
Barium	61.1 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C105
		Dilution Factor: 1				
Calcium	1470 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C108
		Dilution Factor: 1				
Copper	3.4 B	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C109
		Dilution Factor: 1				
Iron	65.9 B	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10Z
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW33-98A

TOTAL Metals

Lot-Sample #...: H8A190128-006

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Magnesium	3410 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10C
		Dilution Factor: 1				
Manganese	10.6 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10E
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10G
		Dilution Factor: 1				
Sodium	10800	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10H
		Dilution Factor: 1				
Vanadium	10.6 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10J
		Dilution Factor: 1				
Zinc	7.2 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09C10K
		Dilution Factor: 1				
Prep Batch #...: 8024107						
Mercury	0.084 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09C10Q
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW33-98A

General Chemistry

Lot-Sample #...: H8A190128-006
 Date Sampled...: 01/16/98

Work Order #...: CF09C
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	64	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09N10R

Date Extracted:01/26/98

Dilution factor: 5

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW34-98A

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	35	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)	200	
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	510	
124-48-1	Dibromochloromethane	25	U
79-00-5	1,1,2-Trichloroethane	58	
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	120	
79-34-5	1,1,2,2-Tetrachloroethane	13000	B

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09N10R

Date Extracted:01/26/98

Dilution factor: 5

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-GW34-98A

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

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW34-98A

TOTAL Metals

Lot-Sample #...: H8A190128-011

Matrix.....: WATER

Date Sampled...: 01/16/98

Date Received...: 01/17/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 8022106						
Aluminium	888	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N101
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N102
		Dilution Factor: 1				
Barium	96.8 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N103
		Dilution Factor: 1				
Selenium	18.1	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N103
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N104
		Dilution Factor: 1				
Thallium	4.0 B	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10E
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N105
		Dilution Factor: 1				
Calcium	8310	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N109
		Dilution Factor: 1				
Iron	ND	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW34-98A

TOTAL Metals

Lot-Sample #....: H8A190128-011

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Magnesium	7800	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10C
		Dilution Factor: 1				
Manganese	37.2	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10D
		Dilution Factor: 1				
Nickel	9.7 B	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10E
		Dilution Factor: 1				
Potassium	11200	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10G
		Dilution Factor: 1				
Sodium	15300	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10H
		Dilution Factor: 1				
Vanadium	11.5 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10J
		Dilution Factor: 1				
Zinc	97.3	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09N10K
		Dilution Factor: 1				
Prep Batch #....: 8024107						
Mercury	0.18 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09N10Q
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW34-98A

General Chemistry

Lot-Sample #....: H8A190128-011
 Date Sampled...: 01/16/98

Work Order #....: CF09N
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	150	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09N20R

Date Extracted:01/27/98

Dilution factor: 100

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8027102

Client Sample Id: IR06-GW34-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	11000	D

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WA101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW35D-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
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	2.1		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

Lab Sample ID:H8A200129 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOWA101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW35D-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.

Client Sample ID: IR06-GW35D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-012

Matrix.....: WATER

Date Sampled...: 01/18/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.090 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWA10R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	35.2 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWA10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWA10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA103
		Dilution Factor: 1				
Barium	10.0 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWA10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA105
		Dilution Factor: 1				
Thallium	2.9 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWA10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA106
		Dilution Factor: 1				
Calcium	78800	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW35D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-012

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Iron	671	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10C
		Dilution Factor: 1				
Magnesium	1970 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10D
		Dilution Factor: 1				
Manganese	30.0	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10F
		Dilution Factor: 1				
Potassium	1300 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10H
		Dilution Factor: 1				
Sodium	7290	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10J
		Dilution Factor: 1				
Vanadium	21.6 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10K
		Dilution Factor: 1				
Zinc	17.2 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWA10I
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW35D-98A

General Chemistry

Lot-Sample #...: H8A200129-012

Work Order #...: CF0WA

Matrix.....: WATER

Date Sampled...: 01/18/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	230	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
			Dilution Factor: 1			
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
			Dilution Factor: 1			

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 013

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WC101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW36D-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	2.5	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

Lab Sample ID:H8A200129 013

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WC101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW36D-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.

Client Sample ID: IR06-GW36D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-013

Matrix.....: WATER

Date Sampled...: 01/19/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8024108						
Mercury	0.11 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF0WC10R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	40.4 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0WC10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0WC10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC103
		Dilution Factor: 1				
Barium	5.9 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0WC10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC105
		Dilution Factor: 1				
Thallium	2.8 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CF0WC10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC106
		Dilution Factor: 1				
Calcium	67500	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC107
		Dilution Factor: 1				
Chromium	3.4 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CF0WC10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW36D-98A

TOTAL Metals

Lot-Sample #....: H8A200129-013

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	673	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC100
		Dilution Factor: 1				
Magnesium	1480 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Manganese	34.4	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Potassium	1230 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC100
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Sodium	5590	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Vanadium	22.0 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				
Zinc	16.1 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWC101
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW36D-98A

General Chemistry

Lot-Sample #...: H8A200129-013
 Date Sampled...: 01/19/98

Work Order #...: CF0WC
 Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
				Dilution Factor: 1		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
				Dilution Factor: 1		

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 014

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WD101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW37D-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	27	
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)	250	B
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	6.5	
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	6.9	
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

Lab Sample ID:H8A200129 014

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOWD101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW37D-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.

Client Sample ID: IR06-GW37D-98A

TOTAL Metals

Lot-Sample #...: H8A200129-014

Matrix.....: WATER

Date Sampled...: 01/19/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.082 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWD108
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	40.8 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWD10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWD10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD103
		Dilution Factor: 1				
Barium	7.6 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWD10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD105
		Dilution Factor: 1				
Thallium	3.9 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWD10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD106
		Dilution Factor: 1				
Calcium	53400	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW37D-98A

TOTAL Metals

Lot-Sample #....: H8A200129-014

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Iron	370	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10C
		Dilution Factor: 1				
Magnesium	1240 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10D
		Dilution Factor: 1				
Manganese	7.5 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10F
		Dilution Factor: 1				
Potassium	754 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10H
		Dilution Factor: 1				
Sodium	4780 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10J
		Dilution Factor: 1				
Vanadium	19.8 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10K
		Dilution Factor: 1				
Zinc	3.3 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWD10I
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW37D-98A

General Chemistry

Lot-Sample #....: H8A200129-014

Work Order #....: CFOWD

Matrix.....: WATER

Date Sampled....: 01/19/98

Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 014

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WD201

Date Extracted:01/29/98

Dilution factor: 2

Date Analyzed: 01/30/98

QC Batch: 8030102

Client Sample Id: IR06-GW37D-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
540-59-0	1,2-Dichloroethene (total)	260	D

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09K10R

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8027102

Client Sample Id: IR06-GW38D-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

Lab Sample ID:H8A190128 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF09K10R

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

Moisture %:NA

QC Batch: 8027102

Client Sample Id: IR06-GW38D-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.

Client Sample ID: IR06-GW38D-98A

TOTAL Metals

Lot-Sample #...: H8A190128-010

Matrix.....: WATER

Date Sampled...: 01/16/98

Date Received...: 01/17/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8022106						
Aluminum	29.3 B	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K101
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K102
		Dilution Factor: 1				
Barium	ND	200	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K105
		Dilution Factor: 1				
Calcium	2830 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K108
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K109
		Dilution Factor: 1				
Iron	5.3 B	100	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW38D-98A

TOTAL Metals

Lot-Sample #....: H8A190128-010

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Magnesium	1340 B	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10C
		Dilution Factor: 1				
Manganese	1.0 B	15.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10E
		Dilution Factor: 1				
Potassium	9630	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10G
		Dilution Factor: 1				
Sodium	198000	5000	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10H
		Dilution Factor: 1				
Vanadium	7.8 B	50.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10J
		Dilution Factor: 1				
Zinc	9.0 B	20.0	ug/L	ICLP ILM03.0	01/22-01/26/98	CF09K10K
		Dilution Factor: 1				
Prep Batch #....: 8024107						
Mercury	0.12 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CF09K10Q
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW38D-98A

General Chemistry

Lot-Sample #....: H8A190128-010
 Date Sampled....: 01/16/98

Work Order #....: CF09K
 Date Received...: 01/17/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	510	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021136
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021140
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 015

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WE101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW40DW-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

Lab Sample ID:H8A200129 015

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CFOWE101

Date Extracted:01/27/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8027102

Client Sample Id: IR06-GW40DW-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.

Client Sample ID: IR06-GW40DW-98A

TOTAL Metals

Lot-Sample #...: H8A200129-015
Date Sampled...: 01/18/98

Date Received...: 01/20/98

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8024108						
Mercury	MIS, SIN, G	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWE10R
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	50.8 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWE10M
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWE10N
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE103
		Dilution Factor: 1				
Barium	7.0 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWE10P
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE105
		Dilution Factor: 1				
Thallium	2.7 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWE10Q
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE106
		Dilution Factor: 1				
Calcium	67800	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE107
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10F
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW40DW-98A

TOTAL Metals

Lot-Sample #...: H8A200129-015

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Iron	737	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Magnesium	1420 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Manganese	16.3	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Potassium	796 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Sodium	4820 B	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Vanadium	20.8 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				
Zinc	14.2 B	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWE10
		Dilution Factor: 1				

NOTE(S) :

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW40DW-98A

General Chemistry

Lot-Sample #....: H8A200129-015
Date Sampled....: 01/18/98Work Order #....: CF0WE
Date Received...: 01/20/98

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A200129 016

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WF101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW40DWA-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	2.6	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

Lab Sample ID:H8A200129 016

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0WF101

Date Extracted:01/29/98

Dilution factor: 1

Date Analyzed: 01/29/98

QC Batch: 8027164

Client Sample Id: IR06-GW40DWA-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.

Client Sample ID: IR06-GW40DWA-98A

TOTAL Metals

Lot-Sample #...: H8A200129-016

Matrix.....: WATER

Date Sampled...: 01/18/98

Date Received...: 01/20/98

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 8024108						
Mercury	0.10 B	0.20	ug/L	ICLP ILM03.0	01/26-01/27/98	CFOWF101
		Dilution Factor: 1				
Prep Batch #...: 8027103						
Aluminum	402	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF102
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWF103
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWF104
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF105
		Dilution Factor: 1				
Barium	6.1 B	200	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF104
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWF106
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF105
		Dilution Factor: 1				
Thallium	4.9 B	10.0	ug/L	ICLP ILM03.0	01/27-01/30/98	CFOWF107
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF106
		Dilution Factor: 1				
Calcium	22800	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF107
		Dilution Factor: 1				
Chromium	5.4 B	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF108
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF109
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10A
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW40DWA-98A

TOTAL Metals

Lot-Sample #....: H8A200129-016

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Iron	571	100	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10C
		Dilution Factor: 1				
Magnesium	11000	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10D
		Dilution Factor: 1				
Manganese	10.7 B	15.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10E
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10F
		Dilution Factor: 1				
Potassium	23800	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10G
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10H
		Dilution Factor: 1				
Sodium	574000	5000	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10J
		Dilution Factor: 1				
Vanadium	15.1 B	50.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10K
		Dilution Factor: 1				
Zinc	28.4	20.0	ug/L	ICLP ILM03.0	01/27-01/29/98	CFOWF10L
		Dilution Factor: 1				

NOTE(S) :

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR06-GW40DWA-98A

General Chemistry

Lot-Sample #....: H9A200129-016 Work Order #....: CF0WF Matrix.....: WATER
 Date Sampled....: 01/18/98 Date Received...: 01/20/98

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Dissolved Solids	1600	20	mg/L	MCAWW 160.1	01/21-01/22/98	8021137
	Dilution Factor: 2					
Total Suspended Solids	15	4.0	mg/L	MCAWW 160.2	01/21-01/22/98	8021141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8A190128 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF0A3101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-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	6.7	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

Lab Sample ID:H8A190128 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/17/98

Work Order: CF0A3101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/26/98

Moisture %:NA

QC Batch: 8023102

Client Sample Id: IR06-TB01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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

Lab Sample ID:H8A200129 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VV101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98

QC Batch: 8023102

Client Sample Id: IR06-TB02-98A

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	2.7	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

Lab Sample ID:H8A200129 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 01/20/98

Work Order: CF0VV101

Date Extracted:01/26/98

Dilution factor: 1

Date Analyzed: 01/27/98


QC Batch: 8023102

Client Sample Id: IR06-TB02-98A


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

ATTACHMENT D
MONTHLY REMEDIAL SYSTEM PROGRESS REPORTS


Monthly Report – January 1998
Groundwater Treatment Plant
Lot 203

Contract N62420-93-D-3032	
Delivery Order 015	
Period of Performance	01/1 -12/31/98
Duration	31 days
Product Recovery	0
Previously reported	0
Current period	0
Total to date	0
Treated Groundwater	
Estimated rate	262.6 gpm
Duration	29.50 days
Estimated Total treated this period	11,153,800 gallons
Treatment System Performance	
<ol style="list-style-type: none"> 1. Changed cartridge filters 7 times. 2. Plant was down a total of 31 hours due to pressure differential transmitter malfunction and cartridge change outs. 3. Normal maintenance has included filter changes weekly , oil changes for air compressor, back-washing sand filters and carbon units, and solids management. 4. At month end all wells were on-line and operating. 	
Comments and Recommendations	
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeter. 2. Attached is tabular analytical data for the sampling events which occurred during the reporting period. 	
Prepared by:	
 James E. Dunn, Jr., P.E. Date February 5, 1998 Senior Project Manager	

Monthly Report – February 1998
Groundwater Treatment Plant
Lot 203

Contract N62420-93-D-3032	
Delivery Order 015	
Period of Performance	02/1 -02/28/98
Duration	28 days
Product Recovery	0
Previously reported	0
Current period	0
Total to date	0
Treated Groundwater	
Estimated rate	342.4 gpm
Duration	25.70 days
Estimated Total treated this period	12,670,100 gallons
Treatment System Performance	
<ol style="list-style-type: none"> 1. Changed cartridge filters 7 times. 2. Plant was down a total of 55 hours due to cleaning inside T-110 & T-220, repair of flow indicator transmitter probe 110, and replacement of couplings for pumps P-245 and P-145. 3. Normal maintenance has included filter changes weekly , oil changes for air compressor, back-washing sand filters and carbon units, and solids management. 4. At month end all wells were on-line and operating. 5. Treated 1,200 gallons from site 820, 43,600 gallons from the Camp Geiger biocell, 59,000 gallons from the Lot 203 biocell, 8,900 gallons from Building 25, 800 gallons from Law Engineering, and 86,000 gallons from Camp Geiger Pilot Test trench. 	
Comments and Recommendations	
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeter. 2. 	
Prepared by:	
 Alan Whitt Date February 28, 1998 Project Manager	

Monthly Report - March 1998
 Groundwater Treatment Plant
 Lot 203

Contract N62420-93-D-3032	
Delivery Order 015	
Period of Performance	03/1 -03/31/98
Duration	31 days
Product Recovery	0
Previously reported	0
Current period	0
Total to date	0
Treated Groundwater	
Estimated rate	379.2 gpm
Duration	6.00 days
Estimated Total treated this period	3,276,700 gallons
Treatment System Performance	
<ol style="list-style-type: none"> 1. Changed cartridge filters 1 time. 2. Plant was down a total of 25 days due to an exceedence of PCE. 3. Treated 19,300 gallons from the Camp Geiger biocell, 1,500 gallons from the Lot 203 biocell, and 3,850 gallons from Building 25. 4. Acid washed packing material in the air stripper and removed and pressure washed the packing material. 	
Comments and Recommendations	
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeter. 2. 	
Prepared by:	
 Alan Whitt Date February 28, 1998 Project Manager	

Sample Point		CLJINS-16	CLJIND-16	CLJAS-16	CLJEF-16	CLJEF-16D
Date Sampled		1/22/98	1/22/98	1/22/98	1/22/98	1/22/98
Date Analyzed		1/30/98	1/30/98	1/30/98	1/30/98	1/30/98

Volatiles	Method	Results in mg/l				
1,2-Dichloroethane	8021	<0.001	0.019	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	8021	0.0952	2.200	<0.001	<0.001	<0.001
Tetrachloroethylene	8021	0.276	0.510	<0.001	<0.001	<0.001
Trichloroethylene	8021	0.999	15.400	<0.001	0.0541	0.0448
Vinyl chloride	8021	0.00447	0.097	<0.001	<0.001	<0.001
Ethylbenzene	8021	<0.002	<0.002	<0.002	<0.002	<0.002

Metals	Results in mg/l					
Arsenic	6010A	<0.005	<0.005	<0.005	<0.005	<0.005
Barium	6010A	0.00626	0.011	0.0105	0.00968	0.00879
Beryllium	6010A	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	6010A	<0.010	<0.010	<0.010	<0.010	<0.010
Iron	6010A	0.878	0.686	0.390	0.167	<0.100
Lead	6010A	<0.005	<0.005	<0.005	<0.005	<0.005
Manganese	6010A	0.0262	0.0155	0.0123	<0.005	<0.005
Mercury	7470A	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium	6010A	<0.010	<0.010	<0.010	<0.010	<0.010


Wet Chemistry	Results in mg/l					
TDS	160.1	155	220	N/A	230	230
TSS	160.2	<10	<10	N/A	<10	<10
pH	9040	7.1	7.3	N/A	7.5	7.5

QC						
Volatiles P/F		Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.
P/F: Pass/Fail
N/A: Not Applicable

Comments: _____

Verified by: RH
Date: _____

Released by: 
Date: _____

Sample Point		CLJINS-17	CLJINS-18	CLJIND-17	CLJIND-18	CLJAS-17	CLJAS-18	CLJEF-17	CLJEF-18	CLJEF-17D	CLJEF-18D
Date Sampled		2/23/98	3/6/98	2/23/98	3/6/98	2/23/98	3/6/98	2/23/98	3/6/98	2/23/98	3/6/98
Date Analyzed		2/27/98	3/9/98	2/27/98	3/9/98	2/27/98	3/9/98	2/27/98	3/9/98	2/27/98	3/9/98

Volatiles	Method	Results in mg/l									
1,2-Dichloroethane	8021	<0.002	<0.010	<0.010	<0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
trans-1,2-Dichloroethene	8021	0.176	0.127	1.880	1.850	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tetrachloroethylene	8021	0.734	0.217	0.209	0.249	0.0991	0.0229	0.0615	0.0132	0.0434	0.0157
Trichloroethylene	8021	0.866	0.625	9.630E	15.000	0.00472	0.00306	0.0581	0.0458	0.0608	0.0465
Vinyl chloride	8021	0.00748	<0.010	0.142	<0.200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	8021	<0.004	<0.020	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

Metals		Results in mg/l									
Arsenic	6010A	<0.005		<0.005		<0.005		<0.005		<0.005	
Barium	6010A	0.00715		0.0116		0.0123		0.00993		0.0103	
Beryllium	6010A	<0.001		<0.001		<0.001		<0.001		<0.001	
Chromium	6010A	<0.010		<0.010		<0.010		<0.010		<0.010	
Iron	6010A	0.665		0.731		0.115		<0.100		<0.100	
Lead	6010A	<0.005		<0.005		<0.005		<0.005		<0.005	
Manganese	6010A	0.0277		0.0282		0.00886		<0.005		<0.005	
Mercury	7470A	<0.0002		<0.0002		<0.0002		<0.0002		<0.0002	
Vanadium	6010A	<0.010		<0.010		<0.010		<0.010		<0.010	

Wet Chemistry		Results in mg/l									
TDS	160.1	160		230		N/A		245		230	
TSS	160.2	<10		<10		N/A		<10		<10	
pH	9040	6.9		7.1		N/A		7.7		7.8	

QC											
Volatiles P/F		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.


P/F: Pass/Fail

N/A: Not Applicable


Comments: _____

Verified by: RH
Date: _____



Monthly Report – January 1998
Site 78 Hadnot Point MCB Camp Lejeune, North Carolina

Contract N62420-93-D-3032 Delivery Order 0118	North Plant	South Plant
Period of Performance	01/1 - 01/31/98	01/1 - 01/31/98
Duration	31 days	31 days
Product Recovery	0	0
Previously reported	0	0
Current period	0	0
Total to date	0	0
Treated Groundwater		
Estimated rate	2.5 gpm	4.4 gpm
Duration	31 days	29 days
Estimated total treated this period	109,599 gallons	184,419 gallons
Treatment System Performance		
<ol style="list-style-type: none"> 1. North Plant was down for 8 hours for monthly cleaning. 2. The South Plant was down 48 hours due to air compressor problems. 3. Normal maintenance has included bag filter changes both plants, oil changes for air compressors, backwashing sand filters and carbon units, solids management both plants and E 405 calcium surfactant agent at both plants. 		
Comments and Recommendations		
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeters installed at each plant. 2. Attached is tabular analytical data for the sampling events which occurred during the reporting period. 		
Prepared by:  James E. Dunn, Jr., P.E. Senior Project Manager		Date February 6, 1998

Monthly Report – February 1998
Site 78 Hadnot Point MCB Camp Lejeune, North Carolina

Contract N62420-93-D-3032 Delivery Order 0118	North Plant	South Plant
Period of Performance	02/1 - 02/28/98	02/1 - 02/28/98
Duration	28 days	28 days
Product Recovery	0	0
Previously reported	0	0
Current period	0	0
Total to date	0	0
Treated Groundwater		
Estimated rate	2.9 gpm	4.0 gpm
Duration	28 days	28 days
Estimated total treated this period	116,488 gallons	161,832 gallons
Treatment System Performance		
<ol style="list-style-type: none"> 1. North Plant-no problems encountered. 2. The South Plant-RW5 was down for five days due to problems with the air modular valve. 3. Normal maintenance has included bag filter changes both plants, oil changes for air compressors, backwashing sand filters and carbon units, solids management both plants and E 405 calcium surfactant agent at both plants. 		
Comments and Recommendations		
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeters installed at each plant. 		
Prepared by:  Alan Whitt Project Manager		Date February 28, 1998

Monthly Report – March 1998
Site 78 Hadnot Point MCB Camp Lejeune, North Carolina
Contract N62420-93-D-3032
Delivery Order 0118

AFVR Events	Previously unreported product	
Current period	250	
Total to date	250	
	North Plant	South Plant
Period of Performance	03/1 - 03/31/98	03/1 – 03/31/98
Duration	31 days	31 days
Product Recovery	0	0
Previously reported	0	0
Treated Groundwater		
Estimated rate	2.4 gpm	4.7 gpm
Duration	30 days	31 days
Estimated total treated this period	105,601 gallons	212,528 gallons
Treatment System Performance		
<ol style="list-style-type: none"> 1. North Plant-no major problems encountered. 2. The South Plant-no major problems encountered. 3. Normal maintenance has included bag filter changes both plants, oil changes for air compressors, backwashing sand filters and carbon units, solids management both plants and E 405 calcium surfactant agent at both plants. 		
Comments and Recommendations		
<ol style="list-style-type: none"> 1. The volumes of treated groundwater have been based upon actual readings from the flowmeters installed at each plant. 		
		
Prepared by:  Alan Whitt Project Manager		Date March 31, 1998

Sample Point		CLN-IN-16	CLN-EF-16	CLN-SF-16	CLN-AS-16	CLN-OW-16
Date Sampled		1/22/98	1/22/98	1/22/98	1/22/98	1/22/98
Date Analyzed		1/30/98	1/30/98	1/30/98	1/30/98	1/30/98

Volatiles	Method	Results in mg/l				
Benzene	8021	0.0345	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.0321	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	<0.001	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.020	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	0.00266	<0.001	N/A	<0.001	N/A

Metals	Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	7060	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	0.0359	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	8.84	<0.100	6.51	N/A	N/A
Lead	7421	<0.005	0.0642	0.0968	N/A	N/A
Manganese	6010A	0.067	<0.005	<0.005	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	0.131	N/A	N/A
Calcium	6010A	77.4	74.5	<1.000	N/A	N/A

Wet Chemistry Method	Results in mg/l					
TDS	160.1	245	270	265	N/A	N/A
TSS	160.2	10	<10	13	N/A	N/A
pH	9040	6.7	7.3	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	N/A	N/A	13.3

QC						
Volatiles P/F		Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.
 P/F: Pass/Fail
 N/A: Not Applicable

Comments: _____

Verified by: RH
 Date: _____

Released by: [Signature]
 Date: _____

Sample Point		CLS-IN-16	CLS-IND-16	CLS-EF-16	CLS-SF-16	CLS-AS-16	CLS-OW-16
Date Sampled		1/22/98	1/22/98	1/22/98	1/22/98	1/22/98	1/22/98
Date Analyzed		1/30/98	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98

Volatiles	Method	Results in mg/l					
Benzene	8021	<0.002	<0.002	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.0484	0.0485	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	<0.001	<0.001	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.0255	0.0256	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	<0.001	<0.001	<0.001	N/A	<0.001	N/A

Metals		Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	6010A	0.00509	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	<0.001	<0.001	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	0.102	<0.100	<0.100	<0.100	N/A	N/A
Lead	6010A	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Manganese	6010A	0.0312	0.028	<0.005	<0.005	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	<0.020	<0.020	N/A	N/A
Calcium	6010A	152	146	147	127	N/A	N/A

Wet Chemistry Method		Results in mg/l					
TDS	160.1	470	490	480	460	N/A	N/A
TSS	160.2	<10	<10	<10	<10	N/A	N/A
pH	9040	6.8	7.1	7.8	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	<10	N/A	N/A	<10

QC							
Volatiles P/F		Pass	Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed by GC/MS Method 8260

P/F: Pass/Fail

N/A: Not Applicable

Comments: _____

Verified by: RH
 Date: _____

Released by: EP
 Date: _____

Sample Point		CLS-IN-17	CLS-IND-17	CLS-EF-17	CLS-SF-17	CLS-AS-17	CLS-OW-17
Date Sampled		2/23/98	2/23/98	2/23/98	2/23/98	2/23/98	2/23/98
Date Analyzed		2/27/98	2/27/98	2/27/98	2/27/98	2/27/98	2/27/98

Volatiles	Method	Results in mg/l					
Benzene	8021	<0.002	<0.002	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.010	0.00964	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	<0.001	<0.001	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.0066	0.00631	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	<0.001	<0.001	<0.001	N/A	<0.001	N/A

Metals		Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	6010A	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	<0.001	<0.001	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	0.364	0.0394	<0.100	<0.100	N/A	N/A
Lead	6010A	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Manganese	6010A	0.0595	0.0657	<0.005	<0.005	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	<0.020	<0.020	N/A	N/A
Calcium	6010A	154	165	174	176	N/A	N/A

Wet Chemistry Method		Results in mg/l					
TDS	160.1	650	645	675	660	N/A	N/A
TSS	160.2	<10	<10	<10	<10	N/A	N/A
pH	9040	6.7	6.9	7.1	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	<10	N/A	N/A	<10

QC							
Volatiles P/F		Pass	Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.

P/F: Pass/Fail

N/A: Not Applicable

Comments: _____

Verified by: RA
 Date: _____

Released by: EP
 Date: _____

Sample Point		CLN-IN-17	CLN-EF-17	CLN-SF-17	CLN-AS-17	CLN-OW-17
Date Sampled		2/23/98	2/23/98	2/23/98	2/23/98	2/23/98
Date Analyzed		2/27/98	2/27/98	2/27/98	2/27/98	2/27/98

Volatiles	Method	Results in mg/l				
Benzene	8021	0.0421	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.0341	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	<0.001	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.018	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	0.00136	<0.001	N/A	<0.001	N/A

Metals	Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	7060	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	0.0359	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	6.73	<0.100	2.28	N/A	N/A
Lead	7421	<0.005	<0.005	0.00548	N/A	N/A
Manganese	6010A	0.0484	<0.005	0.0265	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	<0.020	N/A	N/A
Calcium	6010A	59	47.5	46.9	N/A	N/A

Wet Chemistry Method	Results in mg/l					
TDS	160.1	210	180	180	N/A	N/A
TSS	160.2	10	<10	<10	N/A	N/A
pH	9040	6.4	7.0	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	N/A	N/A	<10

QC						
Volatiles P/F		Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.

P/F: Pass/Fail

N/A: Not Applicable

Comments: _____

Verified by: RAH
 Date: _____

Released by: ER
 Date: _____

Sample Point		CLS-IN-18	CLS-IND-18	CLS-EF-18	CLS-SF-18	CLS-AS-18	CLS-OW-18
Date Sampled		3/30/98	3/30/98	3/30/98	3/30/98	3/30/98	3/30/98
Date Analyzed		4/7/98	4/7/98	4/7/98	4/7/98	4/7/98	4/7/98

Volatiles	Method	Results in mg/l					
Benzene	8021	<0.002	<0.002	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.0656	0.00765	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	<0.001	0.00123	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.00193	0.00229	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	<0.001	<0.001	<0.001	N/A	<0.001	N/A

Metals		Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	6010A	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	<0.001	<0.001	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	0.108	0.0363	0.238	<0.100	N/A	N/A
Lead	6010A	<0.005	<0.005	<0.005	<0.005	N/A	N/A
Manganese	6010A	0.0466	0.0544	<0.005	<0.005	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	<0.020	<0.020	N/A	N/A
Calcium	6010A	142	156	151	153	N/A	N/A

Wet Chemistry Method		Results in mg/l					
TDS	160.1	515	525	545	510	N/A	N/A
TSS	160.2	<10	<10	<10	<10	N/A	N/A
pH	9040	6.5	7.3	6.9	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	<10	N/A	N/A	<10

QC							
Volatiles P/F		Pass	Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.

P/F: Pass/Fail

N/A: Not Applicable

Comments: _____

Verified by: RH
Date: _____

Released by: EP
Date: 4-29-98

Sample Point		CLN-IN-18	CLN-EF-18	CLN-SF-18	CLN-AS-18	CLN-OW-18
Date Sampled		3/30/98	3/30/98	3/30/98	3/30/98	3/30/98
Date Analyzed		4/7/98	4/7/98	4/7/98	4/7/98	4/7/98

Volatiles	Method	Results in mg/l				
Benzene	8021	0.0393	<0.002	N/A	<0.002	N/A
cis-1,2-Dichloroethene	8021	0.0418	<0.001	N/A	<0.001	N/A
trans-1,2-Dichloroethene	8021	0.0012	<0.001	N/A	<0.001	N/A
Trichloroethylene	8021	0.019	<0.001	N/A	<0.001	N/A
Vinyl chloride	8021	0.00174	<0.001	N/A	<0.001	N/A

Metals	Results in mg/l					
Antimony	7041	<0.005	<0.005	<0.005	N/A	N/A
Arsenic	7060	<0.005	<0.005	<0.005	N/A	N/A
Beryllium	6010A	<0.001	<0.001	<0.001	N/A	N/A
Chromium	6010A	<0.010	<0.010	<0.010	N/A	N/A
Iron	6010A	8.61	<0.100	4.23	N/A	N/A
Lead	7421	<0.005	<0.005	<0.005	N/A	N/A
Manganese	6010A	0.054.5	<0.005	0.035	N/A	N/A
Mercury	7470A	<0.0002	<0.0002	<0.0002	N/A	N/A
Nickel	6010A	<0.020	<0.020	<0.020	N/A	N/A
Calcium	6010A	66.3	54.8	61.6	N/A	N/A

Wet Chemistry Method	Results in mg/l					
TDS	160.1	240	230	235	N/A	N/A
TSS	160.2	10	<10	<10	N/A	N/A
pH	9040	6.3	6.8	N/A	N/A	N/A
Oil & Grease	9071	<10	<10	N/A	N/A	<10

QC						
Volatiles P/F		Pass	Pass	Pass	Pass	Pass
Metals P/F		Pass	Pass	Pass	Pass	Pass
Wet Chemistry P/F		Pass	Pass	Pass	Pass	Pass

Notes: All positive volatile results were confirmed.

P/F: Pass/Fail

N/A: Not Applicable

Comments: _____

Verified by: RH
 Date: _____

Released by: ep
 Date: 4-29-98