SEMIANNUAL MONITORING REPORT

OPERABLE UNIT NO. 4 - SITES 41 AND 74 MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

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SEMIANNUAL MONITORING REPORT

The semiannual monitoring report which follows presents a summary of sampling activities, field observations, analytical results, and significant findings which pertain to the monitoring program at Operable Unit (OU) No. 4 (Sites 41 and 74), Marine Corps Base (MCB) Camp Lejeune, North Carolina. Conclusions and recommendations regarding the monitoring program are also presented within this report.

Monitoring activities at OU No. 4 began in 1997 and have continued on a semiannual basis. The most recent sampling initiative commenced January 22, 1998 and concluded February 11, 1998. Groundwater samples at Site 41 were obtained from four shallow monitoring wells and one deep monitoring well. In addition to groundwater samples, surface water and sediment samples were obtained from eight sampling stations located throughout Site 41. Groundwater samples at Site 74 were obtained from four shallow monitoring wells. Figure 1 depicts groundwater, surface water, and sediment sampling locations at Site 41. Figure 2 depicts groundwater sampling locations at Site 74. [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. 4 (Baker, 1996). The project work plans identify a select number of monitoring wells at Sites 41 and 74 for which continued periodic sampling is required. Tables 1 and 2 provide construction details of monitoring wells included in the monitoring program. As stipulated in the project work plans, measurements of pH, specific conductance, dissolved oxygen, temperature, and turbidity were recorded prior to sampling. Summaries of groundwater field parameters from Sites 41 and 74 are provided in Tables 3 and 4, respectively.

The monitoring programs at Sites 41 and 74 were implemented to assess whether contamination, detected during previous investigations, remains present, has migrated, or has degraded through natural processes. Based upon previous analytical results and decision documents, Target Compound List (TCL) volatile organic compounds (VOCs) and Target Analyte List (TAL) metals were identified as contaminants of concern at Site 41; metals were identified as a concern at Site 74. Tables 5 and 6 provide 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 41 and 74. Groundwater elevations and flow directions for each site are presented separately.

Site 41

Water level measurements were obtained at Site 41 on February 11, 1998. Table 7 provides a summary of water level measurements. Figure 3 depicts the static elevations and approximate flow direction of groundwater at Site 41. In general, shallow groundwater flows radially from the central, topographically higher, portion of the study area toward adjacent surface water bodies. Groundwater

flow direction mimics surface topography and is influenced locally by natural surface features including intermittent streams and marsh areas.

Site 74

Water level measurements at Site 74 were obtained on January 27, 1998. Table 8 provides a summary of water level measurements. Figure 4 depicts the static elevations and approximate flow direction of groundwater at Site 74. Groundwater flow within the surficial aquifer at Site 74 is influenced by nearby drainages and, to a lesser extent, Wallace Creek which lies further to the south. As depicted in Figure 4, groundwater at Site 74 flows primarily in an east-southeasterly direction.

Field Observations

The following field observations were noted during the most recent semiannual sampling event at Sites 41 and 74. Recommendations regarding the field observations which follow are presented in a latter portion of this report.

Monitoring wells installed at Sites 41 and 74 during the 1984 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 older monitoring wells. Less than ideal sampling conditions may result when consistent readings of greater than 50 nephlometric turbidity units (NTUs) in groundwater are obtained. In general, it is preferable that groundwater samples be collected after turbidity readings stabilize at less than ten NTUs. Elevated turbidity readings are particularly of concern among groundwater samples submitted for metal analyses; the naturally-occurring metals cause high biased metal results.

ANALYTICAL RESULTS AND FINDINGS

The section which follows presents analytical results and findings from sampling performed at Sites 41 and 74 during the first calendar quarter of 1998. A summary of all analytical results compiled during the sampling event is presented in Attachment B and corresponding laboratory data sheets are provided in Attachment C.

Site 41

The analytical results and findings which follow are presented according to environmental media. Groundwater samples were obtained from five monitoring wells located throughout Site 41. In addition to groundwater samples, eight surface water and eight sediment samples were also collected at Site 41 (refer to Figure 1 for sampling locations).

Two trip blanks were prepared prior to the sampling event and kept with the volatile samples from Site 41 during field collection, shipment, and laboratory analysis. As provided in Table 9, methylene chloride was detected in both trip blank samples at estimated concentrations of 1.8 and 2.4 micrograms per liter (μ g/L). 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.

Groundwater Analytical Results

Four VOCs were detected among two of the five groundwater samples obtained at Site 41. Benzene was detected in the samples obtained from monitoring wells 41-GW11 and 41-GW11DW at estimated concentrations of 2.6 and 1.1 μ g/L, respectively. The benzene detections each exceeded the applicable North Carolina Water Quality Standard (NCWQS) of 1.0 μ g/L, but did not exceed the federal maximum contaminant level (MCL) for drinking water of 5.0 μ g/L. A summary of groundwater analytical results is provided in Table 10. A positive detection summary of groundwater results is provided in Table 11.

In addition to benzene, the VOCs acetone and chlorobenzene were also detected in the groundwater sample obtained from 41-GW11. Acetone and chlorobenzene were detected at estimated concentrations of 13 and 1.1 μ g/L in the sample obtained from 41-GW11. The NCWQSs for acetone and chlorobenzene are 700 and 50 μ g/L, respectively. Acetone is a common laboratory contaminant and may have been introduced during sample preparation or analysis. The only other VOC detection was that of 1,2-dichloroethene (total) in the sample obtained from 41-GW11DW at an estimated concentration of 0.98 μ g/L. However, only the two positive detections of benzene exceeded an applicable screening standard among groundwater samples obtained from Site 41.

As depicted in Figure 5, monitoring well 41-GW11 is located in the central portion of the study area, within 50 feet of deep monitoring well 41-GW11DW. The positive VOC detections in the sample obtained from deep monitoring well 41-GW11DW suggests that volatile contaminants have migrated from the surficial aquifer to the deeper aquifer. The lack of positive VOC detections in other samples obtained from the shallow aquifer at Site 41 suggests that the observed contaminants may be limited to the area surrounding monitoring wells 41-GW11 and 41-GW11DW.

Positive VOC detections among groundwater samples obtained at Site 41 have been documented in the past. Previous sampling results from shallow monitoring well 41-GW11 and deep monitoring well 41-GW11DW have exhibited benzene and chlorobenzene concentrations similar to those presented here (i.e., less than 5 μ g/L). Table 12 provides a summary of VOC and metal results from groundwater samples obtained during the past two years. Future sampling will be employed to determine the nature and persistence of observed VOCs and metals at Site 41.

As presented in Table 10, aluminum, iron, manganese, and thallium were the only metals detected at concentrations which exceeded either NCWQS or MCL among the five groundwater samples submitted for analyses from Site 41. Aluminum was detected in two of the five groundwater samples at concentrations of 32 μ g/L and 1,270 μ g/L; only the higher of the two detections exceeded the 200 μ g/L secondary MCL. Iron and manganese were detected in each of the five groundwater samples obtained from Site 41. Iron concentrations ranged from 728 μ g/L to 39,500 μ g/L; all five positive detections of iron exceeded the 300 μ g/L NCWQS. Four of the five manganese detections exceeded the NCWQS of 50 μ g/L. Manganese concentrations among the groundwater samples obtained from Site 41 ranged from 7.2 μ g/L to 428 μ g/L.

Iron and manganese have been detected consistently above applicable standards among groundwater samples obtained from Site 41. 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 and lead, in groundwater may be 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 aqueous samples. The metals detected among groundwater samples obtained from Site 41 may also be indicative of naturally occurring metals in the presence of acidic soils.

Thallium was the only other total metal identified among groundwater samples from Site 41 that exceeded an applicable water quality standard. Samples obtained from three of the monitoring wells at Site 41 had positive detections of thallium above the 2.0 μ g/L MCL. The associated laboratory method blank, which was analyzed with all the samples obtained from Site 41, had a thallium concentration of 5.8 μ g/L. The presence of thallium in the method blank, the frequency at which thallium was detected, and the lack of thallium detections among previous sampling results, suggests that thallium is a laboratory artifact. For this reason, thallium was not considered an actual site contaminant.

Both total suspended solid (TSS) and total dissolved solid (TDS) analyses were performed for each of the shallow groundwater samples obtained at Site 41. Suspended solids were detected at concentrations ranging from 6.0 to 80 milligrams per liter (mg/L) in 3 of the 5 samples. Dissolved solids were detected in each of the shallow groundwater samples at concentrations ranging from 58 to 1,200 mg/L. Three of the positive TDS concentrations exceeded the NCWQS of 500 mg/L.

Surface Water Analytical Results

Three surface water samples were collected from both Tank Creek and an unnamed tributary to Tank Creek at Site 41 (refer to Figure 1). Two additional surface water samples were also obtained from separate drainage ditches that flow into the unnamed tributary to Tank Creek. Each of the eight surface water samples were submitted for volatile organic and total metal analyses. Only one VOC was detected among surface water samples obtained from Site 41. Chlorobenzene was detected at an estimated concentration of 0.98 µg/L in sample 41-DD-SW02, obtained from one of the two drainage ditches. The North Carolina surface water standard for chlorobenzene is 195 µg/L. No other VOCs were detected among the eight surface water samples. Table 13 provides a summary of surface water analytical results. A positive detection summary of surface water results is presented in Table 14.

Metals were detected in each of the eight surface water samples. Laboratory analyses of the surface water samples indicate that 16 of 23 total metals were positively detected at Site 41. As presented in Table 13, copper, iron and mercury were the only metals identified at a concentrations in excess of either state or federal surface water criterion. The surface water samples obtained at stations 41-DD-SW02, 41-TC-SW10, 41-UT-SW02, and 41-UT-SW03 had copper detections exceeding the Region IV screening value of 6.54 μ g/L. As provided in Table 13, the maximum copper concentration was 10 μ g/L in the sample obtained at 41-UT-SW02. Iron was detected in three of the samples at concentrations of 1,030, 1,070, and 1,330 μ g/L which exceeded the North Carolina fresh surface water standard of 1,000 μ g/L. Mercury was the only other total metal identified among surface water samples from Site 41 that exceeded an applicable water quality standard. Three of the eight samples had positive detections of mercury; each above the 0.012 μ g/L North Carolina standard.

Analytical results from previous investigations and results obtained during the monitoring program are relatively consistent. Samples obtained from the two drainage ditches which empty into the unnamed tributary have had positive chlorobenzene detections of 4.0 μ g/L and 1.0 μ g/L. Concentrations of total metals among surface water samples have remained consistent, with some variation. Historical data show that the metals arsenic, copper, iron, lead, and manganese have been present at concentrations which have exceeded state surface water quality standards. Due to the

composition of regional soils, these metals are commonly detected among surface waters at concentrations which exceed the applicable criteria, however.

Sediment Analytical Results

Eight sediment samples were collected in conjunction with the surface water samples. Each of the eight sediment samples were submitted for volatile organic and metal analyses. As presented in Table 15, three organic compounds were detected among the eight sediment samples. Acetone and 2-butanone were detected in sample 41-DD-SD02 at concentrations of 41 and 16 micrograms per kilogram (μg/kg). Only one detection of 2-butanone was recorded among the eight sediment samples. Methylene chloride was the only other VOC detected among the sediment samples obtained from Site 41. Similar VOCs have been detected at relatively low concentrations in sediments obtained from Site 41 during previous investigations. However, the only organic compounds detected during the monitoring program have been common laboratory contaminants. As such, the presence of acetone, methylene chloride, and 2-butanone at the observed concentrations may be the result of sample acquisition, preparation, or handling.

Laboratory analyses of the sediment samples obtained from Tank Creek, an unnamed tributary to Tank Creek, and two separate drainage ditches indicate that 18 of 23 metals were positively detected. As indicated in Table 15, chromium, copper, and nickel were the only metals detected at concentrations that exceeded Region IV sediment screening values. Sample 41-DD-SD02, obtained from one of the two drainage ditches, had the three metal detections that exceeded the applicable standards. Chromium was detected at a concentration of 84.4 milligrams per kilogram (mg/kg); the screening value for chromium is 52.3 mg/kg. The copper concentration in sample 41-DD-SD02 exceeded the 19 mg/kg screening value by nearly 21 mg/kg and nickel exceeded the 15.9 mg/kg screening value with a concentration of 41.7 mg/kg in the sample obtained from 41-DD-SD02.

Aluminum, barium, chromium, copper, iron, lead, manganese, vanadium, and zinc were detected in each of the eight samples. A positive detection summary of metals in sediment samples is presented in Table 16. The majority of both historical data and data generated during the monitoring program include metals (i.e., common analytes detected at similar concentrations). Concentrations of metals among sediment samples obtained at Site 41 are consistent with other samples collected at various sites throughout MCB, Camp Lejeune.

Site 74

Metals were detected in each of the four groundwater samples obtained at Site 74. Table 17 provides a summary of the groundwater analytical results. A positive detection summary of metals detected among groundwater samples obtained at Site 74 is presented in Table 18. Figure 6 depicts the locations and groundwater analytical results of total metals that were detected at concentrations in excess of either NCWQS or MCL.

Aluminum, iron, and thallium were the only metals detected among the four groundwater samples at concentrations in excess of either the NCWQS or MCL. Aluminum exceeded the secondary MCL of 200 μ g/L in each of the four samples obtained from Site 74 (refer to Figure 6). Aluminum concentrations ranged from 345 μ g/L in sample 74-GW07 to 3,710 μ g/L in sample 74-GW03A. Iron exceeded the NCWQS and secondary MCL of 300 μ g/L in samples obtained from each of the four monitoring wells. Iron was detected at concentrations that ranged from 423 μ g/L to 1,840 μ g/L.

Concentrations of aluminum, iron, and manganese in groundwater samples obtained at MCB, Camp Lejeune often exceed established water quality standards. 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 and lead, 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. Aluminum and iron were detected in each of the four groundwater samples at concentrations that exceeded applicable water quality standards. However, several hundred milligrams per liter of aluminum and iron are not unusual for natural groundwater samples obtained from near-coastal environs (USGS, 1992).

Thallium was the only other total metal identified among groundwater samples from Site 74 that exceeded an applicable water quality standard. Thallium was detected only once among the four groundwater samples obtained at Site 41. Thallium was detected at an estimated concentration of 3.4 μ g/L in the sample obtained from 74-GW03A. The secondary MCL for thallium is 2.0 μ g/L. The associated laboratory method blank, which was analyzed with all the samples obtained from Site 74, had a thallium concentration of 8.9 μ g/L. The presence of thallium in the method blank and the lack of thallium detections among previous sampling results, suggests that thallium is a laboratory artifact. For this reason, thallium was not considered an actual site contaminant.

Previous sampling events at Site 74, completed prior to initiation of the monitoring program, have documented similar findings. With the noted exception of thallium, the same metals have been detected consistently among groundwater samples obtained at Site 74. Specifically, a review of the historical data indicates that aluminum, iron, lead, manganese, and selenium have been detected at concentrations which have exceeded applicable standards among groundwater samples. The previous results and findings also indicated that natural site conditions have contributed to the majority of the detected metal concentrations.

RECOMMENDATIONS

The Record of Decision (ROD) for OU No. 4 stipulates that environmental samples from Sites 41 and 74 be collected periodically to monitor the possible migration of potential site contaminants (Baker, 1995). The sections which follow describe recommendations in support of the selected remedy, periodic monitoring, which have been implemented or are being proposed for future consideration. Details pertaining to the implemented recommendations have been presented within previous monitoring reports. The intent of this report is to provide a brief listing of implemented actions and a thorough description of any proposed recommendations.

Implemented Recommendations

Bollards and protective casings of monitoring wells installed during the 1984 Confirmation Study were repainted with weather resistant paint in February 1997. Rust and peeling paint were removed prior to application of the new paint. In addition, new padlocks that operate with a universal key were installed on each monitoring well at Sites 41 and 74.

Proposed Recommendations

Based upon the observations and findings presented in this semiannual report, the following recommendations for the monitoring program at OU No. 4 are provided. If non-significant changes are made to a component of the selected remedy described in the ROD (Baker, 1995), 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.

Modify Site 41 Sample Analyses

Groundwater samples collected at Site 41 are currently submitted for both dissolved and suspended solid analyses. Wet chemistry analyses are included in the monitoring program to correlate with total metal results. Although the amount of suspended material corresponds with the concentration of metals detected in groundwater samples, the additional information is superfluous. The relative amount of suspended material in each sample can be surmised from turbidity readings recorded during sample collection. Other water quality parameters, including pH and conductivity, may also be employed to supplement information regarding total metal concentrations. Finally, North Carolina has no provisions that account for TDS and TSS when evaluating total metals. Therefore, it is recommended that groundwater samples no longer be submitted for wet chemistry analyses.

Discontinue Site 74 Monitoring Activities

The ROD for OU No. 4 identifies metals in groundwater as the primary concern at Site 74. As a result, groundwater samples obtained during the monitoring program from Site 74 have been submitted for total metal analyses. During the past three sampling events, however, only aluminum and iron have exceeded an applicable water quality criterion (refer to Table 19). Aluminum has been detected at concentrations ranging from 228 to 3,710 μ g/L among the samples obtained from Site 74. The secondary MCL for aluminum is 200 μ g/L and there is no NCWQS. Iron has been detected among the same groundwater samples at concentrations ranging from 49 to 1,900 μ g/L. The NCWQS for iron is 300 μ g/L. Ten of the 16 most recent groundwater results have had positive iron detections in excess of the NCWQS.

The coastal plain environment of North Carolina is naturally rich in metals. As a result, aluminum, iron lead, and manganese have consistently been detected at concentrations in excess of either state or federal screening criteria among many of the groundwater samples obtained during the monitoring program. Iron and manganese have routinely been detected above applicable standards among groundwater samples obtained throughout MCB, Camp Lejeune. The recorded concentrations of iron and manganese, and to a lesser extent aluminum and lead, in groundwater are due to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods and not mobile metal concentrations in the aquifer. The metals detected among groundwater samples obtained from Site 74 are indicative of naturally occurring metals in the presence of acidic soils. Based upon this information, it is recommended that monitoring activities be discontinued at Site 74.

REFERENCES

Baker Environmental, Inc. (Baker). May 1995. <u>Record of Decision for Operable Unit No. 4 (Sites 41 and 74)</u>. Final. Prepared for the Navy Atlantic Division Naval Facilities Engineering Command, Norfolk, Virginia.

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

U.S. Geological Survey (USGS). 1992. <u>Study and Interpretation of the Chemical Characteristics of Natural Water</u>. Third Edition. Prepared by John D. Hem for the U.S. Department of the Interior.

TABLE 1

SUMMARY OF WELL CONSTRUCTION DETAILS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Site 41 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) |
|---------------------|-------------------|-------------------------------------|---|--------------------------------|---------------------------|--|--|---|-------------------------|
| 41-GW02 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 41-GW10 | 1994 | 13.93 | 12.1 | 14.0 | 13.0 | 3.0 - 13.0 | 1.5 - 14.0 | 0.5 - 1.5 | 1.8 |
| 41-GW11 | 1994 | 24.69 | 21.5 | 16.0 | 15.0 | 5.0 - 15.0 | 3.0 - 16.0 | 0.5 - 3.0 | 3.2 |
| 41 - GW11DW | 1994 | 23.63 | 21.5 | 52.0 | 50.0 | 40.0 - 50.0 | 37.0 52.0 | 35.0 - 37.0 | 2.1 |
| 41-GW12 | 1994 | 8.41 | 6.4 | 17.0 | 16.0 | 6.0 - 16.0 | 4.0 - 17.0 | 2.0 - 4.0 | 2.0 |

Notes:

ags = above ground surface

bgs = below ground surface

msl = mean sea level

NA = Information not available

TABLE 2

SUMMARY OF WELL CONSTRUCTION DETAILS OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Site 74 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) |
|---------------------|-------------------|--|---|--------------------------------|---------------------------|--|--|---|-------------------------|
| 74-GW01 | 1984 | NA | NA | NA | 24.5 | 8.5 - 23.5 | NA | NA | NA |
| 74-GW02 | 1984 | NA | NA | NA | 26.5 | 12.5 - 27.5 | NA | NA | NA |
| 74-GW03A | 1986 | NA | NA | NA | 26.5 | 11.5 - 26.5 | NA | NA | NA |
| 74-GW07 | 1994 | 34.52 | 32.4 | 17.0 | 16.5 | 6.5 - 16.5 | 3.5 - 17.0 | 1.5 - 3.5 | 2.1 |

Notes:

ags = above ground surface

bgs = below ground surface

ms1 = mean sea level

NA = Information not available

TABLE 3

SUMMARY OF GROUNDWATER FIELD PARAMETERS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| *** | | | | Fi | eld Parameters | | |
|------------------------------|-------------------|-----------------|-------------------------------|---------------------------------------|------------------|--------------|-----------------------|
| Well Number (Sample Date) | Measuring Time | Well Volumes | Dissolved Oxygen (mg/L) | Specific Conductance (µmhos/cm) | Temperature (°C) | pH (S.U.) | Turbidity (N.T.U.) |
| 41-GW02 | 0720 | 1.0 | 2.6 | 1,012 | 12.8 | 5.58 | 32 |
| (02/11/98) | 0728 | 2.0 | 1.7 | 1,013 | 12.7 | 6.29 | 13 |
| | 0739 | 3.0 | 1.4 | 1,013 | 12.9 | 6.25 | 11 |
| | 0751 | 4.0 | 1.4 | 1,016 | 12.9 | 6.28 | 5.4 |
| 41-GW10 | 1622 | 1.0 | 5.8 | 271 | 12.8 | 6.09 | 48 |
| (02/10/98) | 1657 | 2.0 | 5.9 | 274 | 12.7 | 5.97 | 23 |
| | 1707 | 3.0 | 6.1 | 279 | 12.7 | 5.92 | 12 |
| 41-GW11 | 0735 | 1.0 | 1.7 | 1,251 | 14.2 | 6.69 | 1.7 |
| (02/11/98) | 0745 | 2.0 | 1.6 | 1,257 | 14.0 | 6.63 | 1.6 |
| | 0755 | 3.0 | 1.7 | 1,248 | 14.1 | 6.62 | 1.7 |
| 41-GW11DW | 0746 | 1.0 | 1.7 | 1,939 | 16.9 | 6.28 | 1.2 |
| (02/11/98) | 0804 | 1.5 | 1.7 | 1,914 | 16.4 | 6.30 | 1.3 |
| | 0818 | 2.0 | 1.8 | 1,923 | 16.6 | 6.31 | 1.0 |
| | 0832 | 2.5 | 1.8 | 1,909 | 16.7 | 6.32 | 0.9 |
| | 0850 | 3.0 | 1.7 | 1,875 | 16.7 | 6.34 | 1.0 |
| 41-GW12 | 1011 | 1.0 | 2.0 | 273 | 14.6 | 6.01 | 10 |
| (02/11/98) | 1029 | 2.0 | 1.8 | 280 | 14.7 | 6.03 | 9.5 |
| | 1047 | 3.0 | 2.0 | 277 | 14.6 | 6.04 | 6.3 |

Notes:

N.T.U. = Nephelometric Turbidity Units

S.U. = Standard Units

 μ mhos/cm = micro ohms per centimeter

°C = Degrees Centigrade mg/L = milligrams per liter

TABLE 4

SUMMARY OF GROUNDWATER FIELD PARAMETERS OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| | | | | Fi | eld Parameters | | |
|------------------------------|-------------------|-----------------|-------------------------------|---------------------------------------|------------------|--------------|-----------------------|
| Well Number (Sample Date) | Measuring Time | Well Volumes | Dissolved Oxygen (mg/L) | Specific Conductance (µmhos/cm) | Temperature (°C) | pH (S.U.) | Turbidity (N.T.U.) |
| 74-GW01 | 1244 | 1.0 | 2.0 | 77 | 16.5 | 3.28 | 4.1 |
| (01/22/98) | 1250 | 2.0 | 2.5 | 76 | 16.3 | 3.35 | 1.0 |
| | 1256 | 3.0 | 2.9 | 75 | 16.2 | 3.32 | 1.4 |
| | 1304 | 4.0 | 2.6 | 76 | 16.2 | 3.44 | 1.8 |
| 74-GW02 | 1030 | 1.0 | 3.8 | 144 | 15.8 | 4.28 | 2.4 |
| (01/22/98) | 1040 | 2.0 | 3.9 | 146 | 15.9 | 4.14 | 0.9 |
| · | 1050 | 3.0 | 4.2 | 142 | 15.7 | 4.08 | 0.9 |
| | 1100 | 4.0 | 4.2 | 142 | 16.2 | 3.97 | 0.9 |
| | 1118 | 1.0 | 1.9 | 112 | 16.7 | 3.75 | 18 |
| 74-GW03A | 1133 | 2.0 | 1.7 | 115 | 16.8 | 3.77 | 19 |
| (01/22/98) | 1153 | 3.0 | 1.4 | 113 | 17.1 | 3.75 | 9.9 |
| | 1215 | 4.0 | 2.2 | 115 | 16.4 | 3.74 | 9.6 |
| 74-GW07 | 0928 | 2.0 | 2.0 | 99 | 13.6 | 4.09 | 2.3 |
| (01/22/98) | 0939 | 3.0 | 2.3 | 94 | 14.3 | 4.41 | 1.5 |
| | 0952 | 4.0 | 1.8 | 94 | 14.2 | 4.49 | 1.1 |
| | 1001 | 5.0 | 2.5 | 92 | 14.3 | 4.42 | 1.0 |

Notes:

N.T.U. = Nephelometric Turbidity Units

S.U. = Standard Units

μmhos/cm = micro ohms per centimeter

°C = Degrees Centigrade mg/L = milligrams per liter

TABLE 5

SAMPLING SUMMARY OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Location | Media | CLP Volatiles ⁽¹⁾ | TAL Metals ⁽²⁾ | Total Dissolved Solids ⁽³⁾ | Total Suspended Solids ⁽³⁾ | Laboratory Sample Identification |
|------------|---------------|---------------------------------|------------------------------|---|---|----------------------------------|
| 41-GW02 | Groundwater | X | X | X | X | IR41-GW02-98A |
| 41-GW10 | Groundwater | Х | X | Х | X | IR41-GW10-98A |
| 41-GW11 | Groundwater | X | X | X | X | IR41-GW11-98A |
| 41-GW11DW | Groundwater | X | X | X | X | IR41-GW11DW-98A |
| 41-GW12 | Groundwater | Х | Х | X | X | IR41-GW12-98A |
| 41-UT-SW01 | Surface Water | X | X | | | IR41-UT-SW01-98A |
| 41-UT-SW02 | Surface Water | X | X | | | IR41-UT-SW02-98A |
| 41-UT-SW03 | Surface Water | Х | X | | | IR41-UT-SW03-98A |
| 41-TC-SW10 | Surface Water | Х | Х | | | IR41-TC-SW10-98A |
| 41-TC-SW11 | Surface Water | Х | Х | | | IR41-TC-SW11-98A |
| 41-TC-SW12 | Surface Water | X | X | | | IR41-TC-SW12-98A |
| 41-UT-SD01 | Sediment | X | X | | | IR41-UT-SD01-98A |
| 41-UT-SD02 | Sediment | X | X | | | IR41-UT-SD02-98A |
| 41-UT-SD03 | Sediment | X | X | | | IR41-UT-SD03-98A |
| 41-TC-SD10 | Sediment | X | X | | | IR41-TC-SD10-98A |
| 41-TC-SD11 | Sediment | X | X | | | IR41-TC-SD11-98A |
| 41-TC-SD12 | Sediment | X | Х | | | IR41-TC-SD12-98A |
| 41-DD-SD01 | Sediment | Х | X | | | IR41-DD-SD01-98A |
| 41-DD-SD02 | Sediment | Х | X | | | IR41-DD-SD02-98A |

Notes:

X = Requested analysis

⁽¹⁾ Target Compound List Volatiles by U.S. Environmental Protection Agency, Method 8260A.

Target Analyte List Metals by U.S. Environmental Protectoin 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.

SAMPLING SUMMARY OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Location | Media | TAL Metals ⁽¹⁾ | Total Dissolved Solids ⁽²⁾ | Total Suspended Solids ⁽²⁾ | Laboratory Sample Identification |
|----------|-------------|------------------------------|---|---|----------------------------------|
| 74-GW01 | Groundwater | X | X | X | IR74-GW01-98A |
| 74-GW02 | Groundwater | X | X | Х | IR74-GW02-98A |
| 74-GW03A | Groundwater | X | X | Х | IR74-GW03A-98A |
| 74-GW07 | Groundwater | Х | Х | Х | IR74-GW07-98A |

Notes:

- Target Analyte List Metals by U.S. Environmental Protection Agency, Contract Laboratory Protocol, Statement of Work, Document Number ILM03.0.
- ⁽²⁾ Total Suspended and Dissolved Solids by Solid Waste Method 160.1 and 160.2.
- X = Requested analysis

TABLE 7

SUMMARY OF WATER LEVEL MEASUREMENTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Well ID | Reference Elevation (1) | SWE (02/28/97) | SWE (08/13/97) | SWL (02/11/98) | SWE (02/11/98) |
|-----------|----------------------------|-------------------|-------------------|-------------------|-------------------|
| 41-GW01 | 22.60 | 16.03 | 12.14 | 5.68 | 16.92 |
| 41-GW02 | 14.63 | 10.82 | 6.72 | 3.53 | 11.10 |
| 41-GW03 | 19.23 | 9.81 | NA | 8.32 | 10.91 |
| 41-GW04 | 11.99 | 6.35 | 3.82 | 5.41 | 6.58 |
| 41-GW07 | 22.73 | 14.48 | 10.47 | 7.51 | 15.22 |
| 41-GW08 | 19.48 | 12.45 | 6.82 | 7.43 | 12.05 |
| 41-GW09 | 25.98 | 17.76 | 13.13 | 7.20 | 18.78 |
| 41-GW10 | 13.93 | 9.48 | 6.18 | 4.05 | 9.88 |
| 41-GW11 | 24.69 | 15.62 | 13.94 | 8.24 | 16.45 |
| 41-GW11DW | 23.63 | 11.80 | 16.69 | 11.26 | 12.37 |
| 41-GW12 | 8.41 | 4.90 | 1.47 | 3.31 | 5.10 |
| 41-GW13 | 16.19 | NA | 3.26 | 7.62 | 8.57 |

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

NA = Data not available

TABLE 8

SUMMARY OF WATER LEVEL MEASUREMENTS OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Well ID | Reference Elevation (1) | SWE (02/07/97) | SWE (08/11/97) | SWL (01/22/98) | SWE (01/27/98) |
|----------|----------------------------|-------------------|-------------------|-------------------|-------------------|
| 74-GW01 | 35.88 | 26.51 | 21.13 | 14.90 | 20.98 |
| 74-GW02 | 35.23 | 24.80 | 19.71 | 14.39 | 20.84 |
| 74-GW03A | 36.14 | 32.17 | 28.17 | 4.42 | 31.72 |
| 74-GW04 | 35.37 | 29.61 | 24.38 | 9.07 | 26.30 |
| 74-GW05 | 34.30 | 31.13 | 26.48 | 3.98 | 30.32 |
| 74-GW06 | 33.12 | 20.43 | 14.88 | 15.96 | 17.16 |
| 74-GW07 | 34.52 | 21.22 | 27.17 | 3.24 | 31.28 |
| 74-GW08 | 30.55 | 19.48 | 16.03 | 13.36 | 17.19 |

Notes:

SWL = Static water level taken from top of well casing

SWE = Static water elevation expressed in feet above mean sea level

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

TABLE 9

TRIP BLANK ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| SAMPLE ID | IR41-TB01-98A | IR41-TB02-98A |
|----------------------------|---------------|---------------|
| DATE SAMPLED | 02-09-1998 | 02-11-1998 |
| | | |
| 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 |
| Dibromochloromethane | 5 U | 5 U |
| Ethylbenzene | 5 U | 5 U |
| Methylene chloride | 1.8 JB | 2.4 JB |
| Styrene | 5 U | 5 U |
| Tetrachioroethene | 5 U | 5 U |
| Toluene | 5 U | 5 U |
| Trichloroethene | 5 U | 5 U |
| Vinyl chloride | 10 U | 10 · U |
| Xylenes (total) | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 U | 5 U |
| | | |

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = Micrograms per liter

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS **OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367** MCB, CAMP LEJEUNE, NORTH CAROLINA

| Fraction | Detected | Compariso | on Criteria | | ntration nge | Location of | Detection | Detection | ns Above |
|-----------|----------------------------|-----------|----------------------|--------|-----------------|----------------------|-----------|-----------|----------|
| | Contaminants or Analytes | NCWQS | MCL | Min. | Max. | Maximum Detection | Frequency | NCWQS | MCL |
| Volatiles | Acetone | 700 | NE | 13 J | 13 J | 41-GW11 | 1/5 | 0 | NA |
| | Benzene | 1 | 5 | 1.1 J | 2.6 J | 41-GW11 | 2/5 | 2 | 0 |
| | Chlorobenzene | 50 | 100 | 1.1 J | 1.1 J | 41-GW11 | 1/5 | 0 | 0 |
| | 1,2-Dichloroethene (total) | NE | NE | 0.98 J | 0.98 J | 41-GW11DW | 1/5 | NA | NA |
| Total | Aluminum | NE | 200 ⁽¹⁾ | 32 | 1,270 | 41-GW10 | 2/5 | NA | 1 |
| Metals | Arsenic | 50 | 50 | 3.3 J | 3.3 J | 41-GW11 | 1/5 | 0 | 0 |
| | Barium | 2,000 | 2,000 | 20.7 J | 519 | 41-GW11 | 5/5 | 0 | 0 |
| | Chromium | . 50 | 100 | 3.9 J | 11 | 41-GW11DW | 3/5 | 0 | 0 |
| | Copper | 1,000 | 1,300 | 6.7 J | 15.1 J | 41-GW02 | 4/5 | 0 | 0 |
| | Iron | 300 | 300 ⁽¹⁾ | 728 | 39,500 | 41-GW11 | 5/5 | 5 | 5 |
| | Lead | 15 | 15 | 12.6 | 12.6 | 41-GW11 | 1/5 | 0 | 0 |
| | Manganese | 50 | 50 ⁽¹⁾ | 7.2 J | 428 | 41-GW02 | 5/5 | 4 | 4 |
| | Mercury | 1.1 | 2.0 | 0.04 J | 0.08 J | 41-GW11DW | 4/5 | 0 | 0 |
| | Nickel | 100 | 100 | 17 J | 17 J | 41-GW11 | 1/5 | 0 | 0 |
| | Thallium (2) | NE | 2.0 | 3.2 J | 6.1 J | 41-GW11 | 3/5 | 3 | 3 |
| | Zinc | 2,100 | 5,000 ⁽¹⁾ | 12.9 J | 52.6 | 41-GW11 | 5/5 | 0 | 0 |
| Wet | Total Dissolved Solids | 500 | 500 ⁽¹⁾ | 58 | 1,200 | 41-GW11DW | 5/5 | 3 | 3 |
| Chemistry | Total Suspended Solids | NE | NE | 6.0 | 80 | 41-GW11 | . 3/5 | NA | NA |

Notes:

Organic and Metal concentrations presented in micrograms per liter (µg/L) or parts per billion. Wet chemistry concentrations presented in milligrams per liter (mg/L) or parts per million.

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).

Not Established NE

^{(1) -} Secondary Federal Maximum Contaminant Level (Refer to MCL Note Below).

^{(2) -} Thallium was detected in the associated method blank at an estimated concentration of 5.8 μg/L.

TABLE 11

POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 4 - SITE 41

MONITORING AND O&M SUPPORT, CTO-0367

MCB, CAMP LEJEUNE, NORTH CAROLINA

| SAMPLE ID | IR41-GW02-98A | IR41-GW10-98A | IR41-GW11-98A | IR41-GW11DW-98A | IR41-GW12-98A |
|----------------------------|---------------|---------------|---------------|---------------------|---------------|
| DATE SAMPLED | 02-10-1998 | 02-09-1998 | 02-11-1998 | 02-11-1998 | 02-11-1998 |
| VOLATILES (ug/L) | | | | | |
| 1,2-Dichloroethene (total) | 5 Ù | 5 U | 5 U | 0.98 [*] J | 5 U |
| Acetone | 20 U | 20 U | 13 J | 20 U | 20 U |
| Benzene | 5 U | 5 U | 2.6 J | 1.1 J | 5 U |
| Chlorobenzene | 5 U | 5 U | 1.1 J | 5 U | 5 U |
| Methylene chloride | 1.6 JB | 1.4 JB | 2.1 ЈВ | 2 JB | 2.3 JB |
| TOTAL METALS (ug/L) | | | | 2.2 | |
| Aluminum | 31.6 J | 1270 | 200 U | 200 U | 200 U |
| Arsenic | 10 U | 10 U | 3.3 Ј | 10 U | 10 U |
| Barium | 76.9 J | 20.7 J | 519 | 50.9 J | 23.1 J |
| Calcium | 161000 | 3070 J | 116000 | 254000 | 53700 |
| Chromium | 6.6 J | 10 U | 3.9 J | 11 | 10 U |
| Cobalt | 50 U | 50 U | 6.8 J | 50 U | 14.6 Ј |
| Copper | 15.1 J | 8.4 Ј | 10.8 J | 25 U | 6.7 J |
| Iron | 33700 | 728 | 39500 | 3410 | 4910 |
| Lead | 3 U | 3 U | 12.6 | 3 U | 3 U |
| Magnesium | 23600 | 802 J | 23800 | 744 0 | 3070 J |
| Manganese | 428 | 7.2 Ј | 332 | 139 | 110 |
| Mercury | 0.06 J | 0.2 U | 0.049 J | 0.081 J | 0.035 J |
| Nickel | 40 U | 40 U | 17 J | 40 U | 40 U |
| Potassium | 16600 | 5000 U | 32300 | 1600 J | 5000 U |
| Sodium | 28600 | 8240 | 58300 | 222000 | 6560 |
| Thallium | 3.2 Ј | 10 U | 6.1 J | 5 Ј | 10 U |
| Vanadium | 36.7 J | 21.1 J | 33.5 J | 46.3 J | 27.7 Ј |
| Zinc | 30.7 | 20 | 52.6 | 12.9 Ј | 40.5 |
| WET CHEMISTRY (mg/L) | 1 | | | | |
| Total Dissolved Solids | 590 | 58 | 560 | 1200 | 170 |
| Total Suspended Solids | 4 U | 4 U | 80 | . 6 | 8 |

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = micrograms per liter

mg/L = milligrams per liter

VOLATILE COMPOUNDS AND METALS IN GROUNDWATER MARCH 1996 - FEBRUARY 1998 OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Monitoring Well/ Volatile Compound | MCL | NCWQS | March 1996 | February 1997 | August 1997 | February 1998 |
|---------------------------------------|-----|-------|---------------|------------------|----------------|------------------|
| 41-GW02 Aluminum | 200 | NE | NA | 205 | NA | NA |
| Iron | 300 | 300 | 28,900 | 27,200 | 25,300 | 33,700 |
| Manganese | 50 | 50 | 432 | 376 | 346 | 428 |
| 41-GW10 | | | | | | |
| Aluminum | 200 | NE | 2,860 | 1,390 | 619 | 1,270 |
| Iron | 300 | 300 | NA | NA | 2,560 | 728 |
| 41-GW11 | | | | | | |
| Acetone | NE | 700 | ND | ND | ND | 12 J |
| Benzene | 5.0 | 1.0 | 4 J | 4 J | 4 J | 2.6 J |
| Chlorobenzene | 100 | 50 | 5 J | 3 J | ND | 1.1 J |
| Iron | 300 | 300 | 60,200 | 32,700 | 26,600 | 39,500 |
| Manganese | 50 | 50 | 259 | 162 | 181 | 332 |
| Lead | 15 | 15 | NA | 21 | NA | NA |
| 41-GW11DW | | | | | | |
| Vinyl Chloride | 2.0 | 0.015 | 1.0 J | ND | ND | ND |
| 1,2-Dichloroethene (total) | NE | NE | 1.0 J | ND | ND | 1.0 J |
| 1,2-Dichloropropane | 5.0 | 0.56 | 1.0 J | ND | ND | ND |
| Benzene | 5.0 | 1.0 | 1.0 J | ND | ND | ND |
| Iron | 300 | 300 | 3,340 | 2,810 | 2,820 | 3,410 |
| Manganese | 50 | 50 | 138 | 120 | 121 | 139 |
| 041-GW12 | | | |] | | |
| Iron | 300 | 300 | 4,820 | 5,400 | 1,930 | 4,910 |
| Manganese | 50 | 50 | 119 | 119 | NA | 110 |

Notes:

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

| J = Estimated Result |
|----------------------|
|----------------------|

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.)

NA = Not applicable or analyte detected at a concentration less than screening standard.

NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina

Administrative Code, Title 15A, Subchapter 2L).

ND = Not Detected NE = Not Established

SUMMARY OF SURFACE WATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Fraction | Detected | Comparison Criteria | | Concentration Range | | Location of | Detection | Detections Above | |
|-----------|--------------------------|---------------------|-----------|------------------------|---------|----------------------|-----------|------------------|-----------|
| | Contaminants or Analytes | NCWQS | Region IV | Min. | Max. | Maximum Detection | Frequency | NCWQS | Region IV |
| Volatiles | Chlorobenzene | NE | 195 | 0.82 J | 0.82 J | 41-DD-SW01 | 1/6 | NA | 0 |
| Total | Aluminum | NE | NE | 87.8 J | 539 | 41-TC-SW10 | 8/8 | NA | NA |
| Metals | Arsenic | 50 | 190 | 3.0 J | 3.0 J | 41-TC-SW11 | 1/8 | 0 | 0 . |
| | Barium | NE | NE | 23.5 J | 63.2 J | 41-DD-SW02 | 8/8 | NA | NA |
| | Chromium | 50 | 11 | 3.4 J | 7.0 J | 41-DD-SW02 | 3/8 | 0 | 0 |
| | Copper | 7.0 | 6.54 | 4.1 J | 10 J | 41-UT-SW02 | 7/8 | 2 | 4 |
| | Iron | 1,000 | NE | 564 | 1,330 | 41-DD-SW02 | 8/8 | 3 | NA |
| | Lead | 25 | 1.32 | 1.2 J | 1.2 J | 41-TC-SW12 | 1/8 | 0 | 0 |
| | Manganese | NE | NE | 16 | 139 | 41-DD-SW02 | 8/8 | NA | NA |
| | Mercury | 0.012 | 0.13 | 0.035 J | 0.097 J | 41-TC-SW10 | 3/8 | 3 | 0 |
| | Thallium | NE | NE | 3.8 J | 5.1 J | 41-UT-SW03 | 2/8 | NA | NA |
| | Vanadium | NE | NE | 17.3 Ј | 33.2 J | 41-DD-SW02 | 8/8 | NA | NA |
| | Zinc | 230 | 58.9 | 16.2 J | 49.1 | 41-TC-SW10 | 8/8 | 0 | 0 |

Notes:

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

NA = Not Applicable

NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2B, Rule .0211).

ND = Not Detected NE = Not Established

Region IV = U.S. Environmental Protection Agency, Region IV - Surface Water Screening Values Protective of Freshwater Aquatic Life.

TABLE 14

POSITIVE DETECTIONS IN SURFACE WATER
OPERABLE UNIT NO. 4 - SITE 41

MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

| SAMPLE ID DATE SAMPLED | IR41-DD-SW01-98A 02-09-1998 | IR41-DD-SW02-98A 02-09-1998 | IR41-TC-SW10-98A 02-11-1998 | IR41-TC-SW11-98A 02-11-1998 | IR41-TC-SW12-98A 02-11-1998 | IR41-UT-SW01-98A 02-10-1998 | IR41-UT-SW02-98A 02-11-1998 | IR41-UT-SW03-98A 02-11-1998 |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| VOLATILES (ug/L) | | | | | | | | |
| Chlorobenzene | 0.82 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Methylene chloride | 1.4 JB | 1.5 JB | 1.4 JB | 1.6 JB | 1.5 JB | 1.4 JB | 1.7 JB | 1.8 JB |
| TOTAL METALS (ug/L) | | | | | | | | |
| Aluminum | 87.8 J | 88.7 J | 539 | 536 | 450 | 279 | 244 | 274 |
| Arsenic | 10 U | 10 U | 10 U | 3 J | 10 U | 10 U | 10 U | 10 U |
| Barium | 45.1 J | 63.2 J | 30.2 J | 29.6 J | 29.8 Ј | 24.8 J | 23.7 Ј | 23.5 Ј |
| Calcium | 66900 | 97900 | 17400 | 17900 | 17400 | 37900 | 36800 | 35900 |
| Chromium | 10 U | 7 J. | 10 U | 10 U | 10 U | 3.9 J | 3.4 J | 10 U |
| Copper | 25 U | 6.7 J | 6.9 J | 4.1 J | 4.9 J | 4.7 J | 10 Ј | 9.4 J |
| Iron | 652 | 1330 | 1070 | 1030 | 969 | 564 | 731 | 713 |
| Lead | 3 U | 3 U | 3 U | 3 U | 1.2 J | 3 U | 3 U | 3 U |
| Magnesium | 6000 | 10400 | 1660 J | 1680 J | 1650 Ј | 1800 J | 2220 J | 2160 J |
| Manganese | 34 | 139 | 34.4 | 29.7 | 30.4 | 16 | 28.2 | 24.5 |
| Mercury | 0.035 J | 0.2 U | 0.097 Ј | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.05 J |
| Potassium | 3780 J | 7550 | 964 J | 5000 U | 1010 Ј | 1070 Ј | 704 J | 659 J |
| Sodium | 11600 | 17800 | 11700 | 11600 | 11600 | 16200 | 11400 | 11100 |
| Thallium | 10 U | 10 U | 10 U | 3.8 J | 10 U | 10 U | 10 U | 5.1 J |
| Vanadium | 31.4 J | , 33.2 Ј | 23 J | 23.6 Ј | 17.3 J | 27.2 Ј | 25,8 J | 25.4 J |
| Zine | 16.2 J | , 18.3 Ј | 49.1 | 20 | 39.7 | 26.4 | 33.2 | 26.4 |

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = micrograms per liter

SUMMARY OF SEDIMENT ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Fraction | Detected | NOAA | Concentra | tion Range | Location of | Detection | Detections Above |
|-----------|-----------------------|------|-----------|------------|----------------------|-----------|------------------------|
| | Compounds or Analytes | | Min. | Max. | Maximum Detection | Frequency | Comparison Criteria |
| Volatiles | Acetone | NE | 41 J | 41 J | 41-DD-SD02 | 1/8 | NA |
| | Methylene Chloride | NE | 4.5 J | 4.5 J | 41-UT-SD01 | 1/8 | NA |
| | 2-Butanone | NE | 16 J | 16 J | 41-DD-SD02 | 1/8 | NA |
| Metals | Aluminum | NE | 275 | 9,650 | 41-DD-SD02 | 8/8 | NA |
| | Barium | NE | 1.4 J | 33.4 J | 41-DD-SD02 | 8/8 | NA |
| | Beryllium | NE | 0.19 J | 0.19 J | 41-DD-SD02 | 1/8 | NA |
| | Chromium | 52.3 | 1.0 J | 84.4 | 41-DD-SD02 | 8/8 | 1 |
| | Cobalt | NE | 3.7 J | 3.7 J | 41-DD-SD02 | 1/8 | NA |
| | Copper | 19 | 0.89 J | 39.7 | 41-DD-SD02 | 8/8 | 1 |
| | Iron | NE | 206 | 6,400 | 41-DD-SD02 | 8/8 | NA |
| | Lead | 30.2 | 0.53 J | 17.6 | 41-TC-SD10 | 8/8 | 0 |
| | Manganese | NE | 0.64 J | 31 | 41-DD-SD02 | 8/8 | NA |
| | Mercury | 0.13 | 0.025 J | 0.11 | 41-DD-SD02 | 7/8 | 0 |
| | Nickel | 15.9 | 41.7 | 41.7 | 41-DD-SD02 | 1/8 | 1 |
| | Thallium | NE | 1.1 J | 1.1 J | 41-DD-SD01 | 1/8 | NA |
| | Vanadium | NE | 3.4 J | 19.1 J | 41-DD-SD02 | 8/8 | NA |
| | Zinc | 124 | 6.1 | 62.6 | 41-DD-SD02 | 8/8 | 0 |

Notes:

Volatile Compound concentrations presented in micrograms per kilogram ($\mu g/kg$) or parts per billion. Metal concentrations presented in milligrams per kilogram (mg/kg) or parts per million.

NA = Not Applicable
ND = Not Detected
NE = Not Established

NOAA = U.S. Environmental Protection Agency, Region IV - Adoption of Risk-Based Effects Values for Aquatic Life from the National Oceanic and Atmospheric Administration (NOAA).

TABLE 16

POSITIVE DETECTIONS IN SEDIMENT OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| SAMPLE ID | IR41-DD-SD01-98A IR41- | DD-SD02-98A IR41- | -TC-SD10-98A IR4 | 41-TC-SD11-98A IR41- | TC-SD12-98A IR41 | -UT-SD01-98A IR41- | UT-SD02-98A IR41- | UT-SD03-98A |
|----------------------|------------------------|-------------------|------------------|----------------------|------------------|--------------------|-------------------|-------------|
| DATE SAMPLED | 02/09/98 | 02/09/98 | 02/09/98 | 02/09/98 | 02/09/98 | 02/09/98 | 02/09/98 | 02/09/98 |
| | | | | | | | | |
| VOLATILES (ug/kg) | | | | | | • | | |
| 2-Butanone | 26 U | 16 Ј | 5.8 JB | 27 U | 25 U | 26 U | 25 U | 24 U |
| Acetone | 2 6 U | 41 J | 38 U | 27 U | 25 U | 26 U | . 25 U | 24 U |
| Methylene chloride | 2.8 JB | 8.2 JB | 9.5 U | 6.8 U | 6.4 U | 4.5 J | 6.2 U | 6.1 U |
| TOTAL METALS (mg/kg) | A. | | | | | | | |
| Aluminum | 1270 | 9650 | 3850 | 800 | 1050 | 3780 | 341 | 275 |
| Barium | 5.9 J | 33.4 J | 24.3 J | 5.4 J | 7.7 J | 11.5 J | 1.6 J | 1.4 J |
| Beryllium | 1.3 U | 0.19 J | 1.9 U | 1.4 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| Calcium | 587 J | 2480 | 2220 | 266 J | 345 J | 36500 | 177 J | 135 J |
| Chromium | 3 | 84.4 | 5 | 1.4 J | 2.1 J | 7.3 | 1.7 J | 1 Ј |
| Cobalt | 13.1 U | 3.7 J | 18.9 U | 13.6 U | 12.7 U | - 13 U | 12.4 U | 12.1 U |
| Copper | 1.7 J | 39.7 | 2.5 J | 1.1 J | 0.89 Ј | 1.8 J | 1 J | 0.95 J |
| Iron | 2420 | 6400 | 2110 | 804 | 838 | 1960 | 447 | 206 |
| Lead | 4.4 | 16.6 | 17.6 | 1.8 | 2 | 9.5 | 0.54 Ј | 0.53 J |
| Magnesium | 52.9 J | 444 J | 186 J | 38.6 J | 46.5 J | 600 J | 22.4 J | 16.1 Ј |
| Manganese | 4.6 | 31 | 14.2 | 5.2 | 4.3 | 10.3 | 0.64 Ј | 0.71 J |
| Mercury | 0.04 J | 0.11 Ј | 0.09 J | 0.043 J | 0.035 J | 0.13 U | 0.035 J | 0.025 J |
| Nickel | 10.4 U | 41.7 | 15.1 U | 10.9 U | 10.2 U | 10.4 U | 9.9 U | 9.7 U |
| Potassium | 1310 U | 393 J | 1890 U | 1360 U | 1270 U | 1300 U | 1240 U | 1210 U |
| Sodium | 42.9 J | 108 J | 62.4 J | 32.7 J | 23.4 J | 128 J | 40.1 J | 15.4 J |
| Thallium | 1.1 J | 4.7 U | 3.8 U | 2.7 U | 2.5 U | 2.6 U | 2.5 U | 2.4 U |
| Vanadium | 3.7 J | 19.1 J | 8.2 J | 4.1 J | 3.6 J | 13.7 | 3.6 J | 3.4 J |
| Zinc | 23.4 | 62.6 | 16.6 | 10.5 | 10.8 | 16.2 | 6.1 | 6.4 |

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/kg = micrograms per kilogram mg/kg = milligrams per kilogram

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Fraction | Detected | Comparison Criteria | | Concentration Range | | Location of | Detection | Detections Above | |
|---------------|------------------------|---------------------|--------------------|------------------------|---------|----------------------|-----------|------------------|-----|
| | Analytes | NCWQS | MCL | Min. | Max. | Maximum Detection | Frequency | NCWQS | MCL |
| Total | Aluminum | NE | 200 (1) | 345 | 3,710 | 74-GW03A | 4/4 | NA | 4 |
| Metals | Barium | 2,000 | 2,000 | 48.7 J | 96.5 J | 74-GW07 | 4/4 | 0 | 0 |
| | Copper | 1,000 | 1,300 | 3.3 J | 7.4 J | 74-GW07 | 3/4 | 0 | 0 |
| | Iron | 300 | 300 ⁽¹⁾ | 423 | 1,840 | 74-GW07 | 4/4 | 4 | 4 |
| | Lead | 15 | 15 | 2.5 J | 2.5 J | 74-GW02 | 2/4 | 0 | 0 |
| | Manganese | 50 | 50 ⁽¹⁾ | 5.3 J | 8.8 J | 74-GW02 | 4/4 | 0 | 0 |
| | Mercury | 1.1 | 2.0 | 0.048 J | 0.054 J | 74-GW01 | 4/4 | 0 | 0 |
| | Thallium (2) | NE | 2.0 | 3.4 J | 3.4 J | 74-GW03A | 1/4 | 1 | 1 |
| | Vanadium | NE | NE | 9.5 J | 13.6 J | 74-GW03A | 4/4 | NA | NA |
| | Zinc | 2100 | 5,000 (1) | 2.5 J | 8.7 J | 74-GW03A | 4/4 | 0 | 0 |
| Wet Chemistry | Total Dissolved Solids | 500 | 500 ⁽¹⁾ | 37 | 92 | 74-GW02 | 4/4 | 0 | 0 |
| | Total Suspended Solids | NE | NE | 15 | 15 | 74-GW01 | 1/4 | NA | NA |

Notes:

Metal concentrations presented in micrograms per liter ($\mu g/L$) or parts per billion. Wet chemistry concentrations presented in milligrams per liter (m g/L) or parts per million.

J = Estimated Result

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

^{(1) -} Secondary Federal Maximum Contaminant Level (Refer to MCL Note Below).

 $^{^{(2)}\}text{-}$ Thallium was detected in the associated method blank at an estimated concentration of 8.9 $\mu\text{g/L}.$

TABLE 18

POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| SAMPLE ID | SAMPLE ID IR74-GW01-98A | | IR74-GW03A-98A | IR74-GW07-98A |
|------------------------|-------------------------|-------------|----------------|---------------|
| DATE SAMPLED | 01-22-1998 | 01-22-1998 | 01-22-1998 | 01-22-1998 |
| TOTAL METALS (ug/L) | | | | |
| Aluminum | 838 | 796 | 3710 | 345 |
| Barium | 48.7 Ј | 54.2 J | 58.9 J | 96.5 J |
| Calcium | 984 J | 19200 | 290 Ј | 515 J |
| Copper | 3.9 J | 25 U | 3.3 J | 7.4 J |
| Iron | 423 | 724 | 803 | 1840 |
| Lead | 3 U | 2.5 J | 2.5 J | 3 U |
| Magnesium | 1950 Ј | 1570 Ј | 565 J | 2310 J |
| Manganese | 5.3 J | 8.8 J | 6.1 J | 6.2 J |
| Mercury | 0.054 J | 0.05 J | 0.051 J | 0.048 Ј |
| Potassium | 1070 J | 5000 U | 782 J | 1020 J |
| Sodium | 11400 | 3100 J | 8700 | 8410 |
| Thallium | 10 U | 10 U | 3.4 J | 10 U |
| Vanadium | 10.6 J | 10.7 J | 13.6 J | 9.5 J |
| Zinc | 2.5 J | 6 J | 8.7 J | 6 J |
| WET CHEMISTRY (mg/L) | | | | |
| Total Dissolved Solids | 37 | 92 | 60 | 61 |
| Total Suspended Solids | 15 | 4 U | 4 U | 4 U |

U = Not detected

J = Estimated Value

ug/L = micrograms per liter

mg/L = milligrams per liter

7400 64- 5/12/

METALS IN GROUNDWATER ABOVE SCREENING STANDARDS MARCH 1996 - JANUARY 1998 OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA

| Monitoring Well/ Metal | MCL | NCWQS | March 1996 | February 1997 | August 1997 | January 1998 |
|---|-------------------|-----------------|---------------------|--------------------|--------------------|--------------------|
| 74-GW01 Aluminum Iron Thallium | 200 300 2.0 | NE 300 NE | 460 NA 11 | 228 NA ND | 411 NA ND | 838 423 ND |
| 74-GW02 Aluminum Iron Thallium | 200 300 2.0 | NE 300 NE | 418 NA 3.9 | 239 NA ND | 585 NA ND | 796 724 ND |
| 74-GW03A Aluminum Iron | 200 300 | NE 300 | 2,320 377 | 2,430 504 | 2,900 443 | 3,710 803 |
| 74-GW07 Aluminum Iron Thallium | 200 300 2.0 | NE 300 NE | 342 1,230 3.7 | 260 1,770 ND | 279 1,900 ND | 345 1,840 ND |

Notes:

Concentrations expressed in micrograms per liter ($\mu g/L$) 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.) |

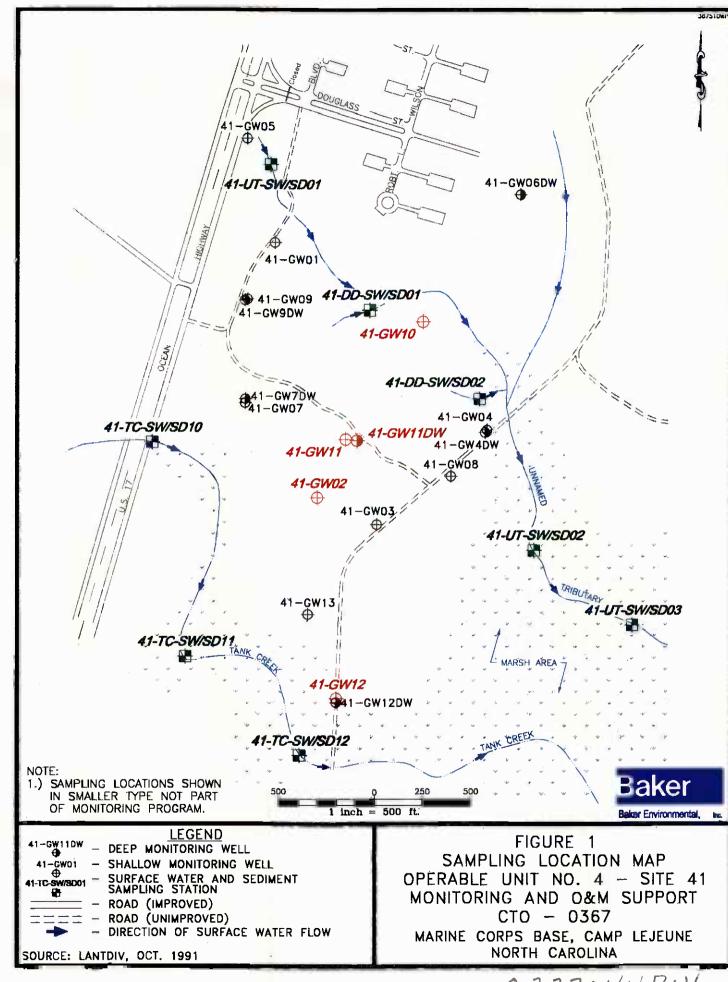
NA = Not applicable or analyte detected at a concentration less than screening standard.

NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina

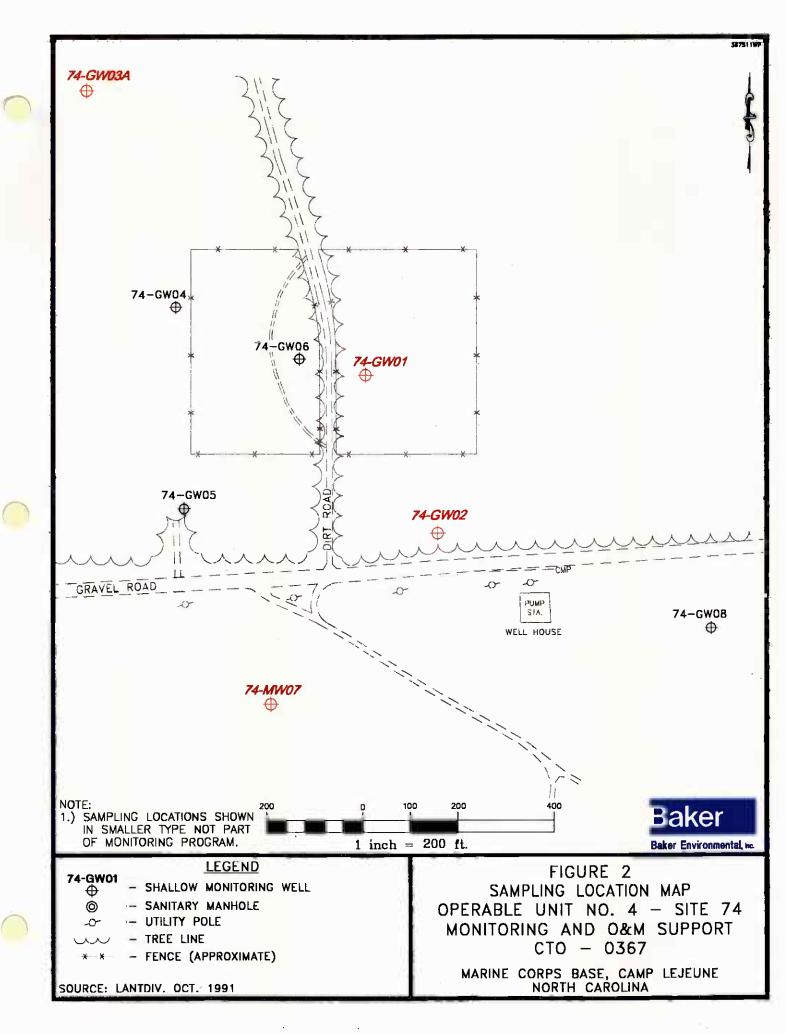
Administrative Code, Title 15A, Subchapter 2L).

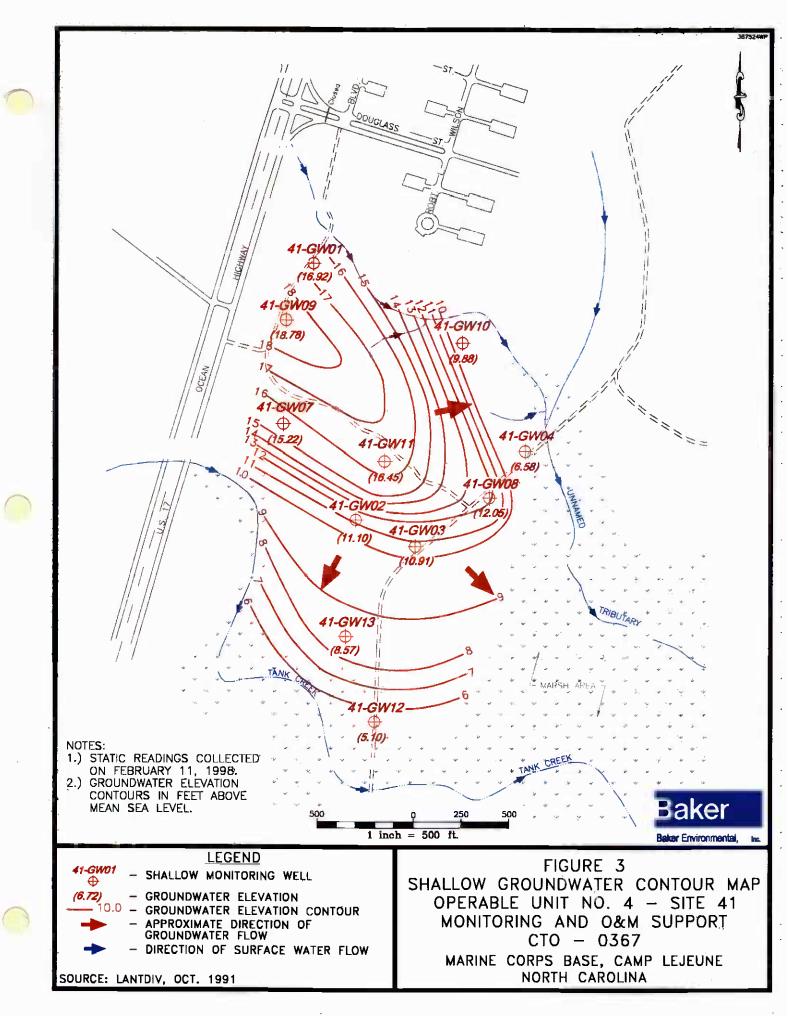
ND = Not Detected NE = Not Established

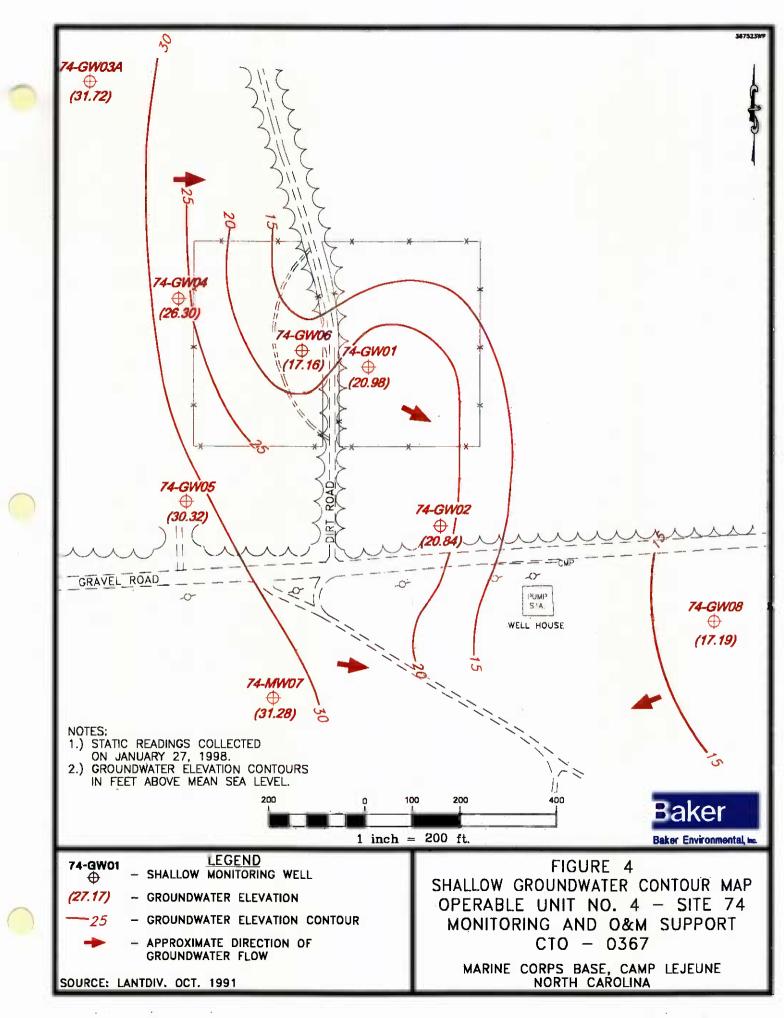
FIGURES

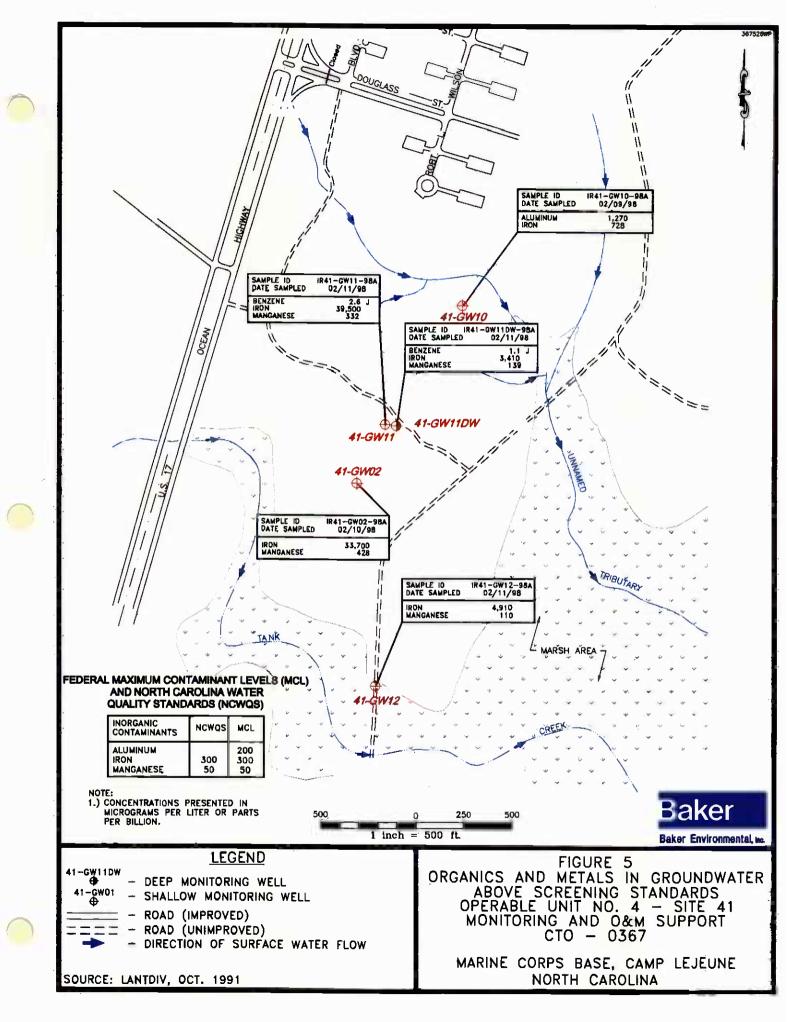


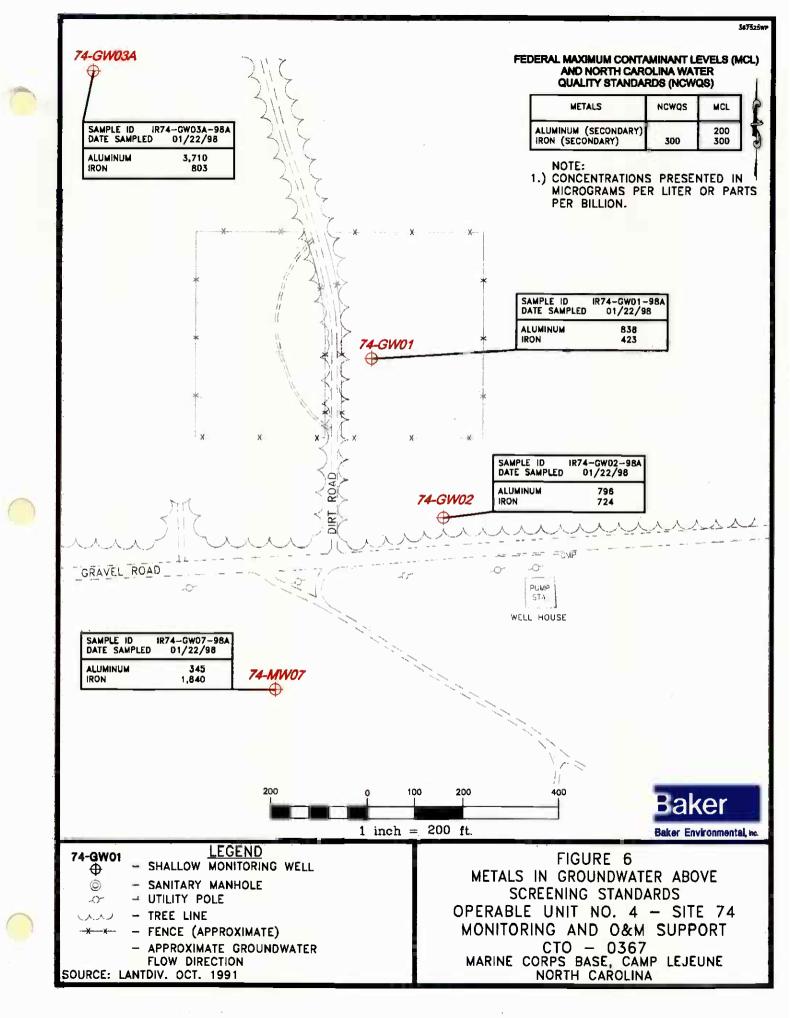
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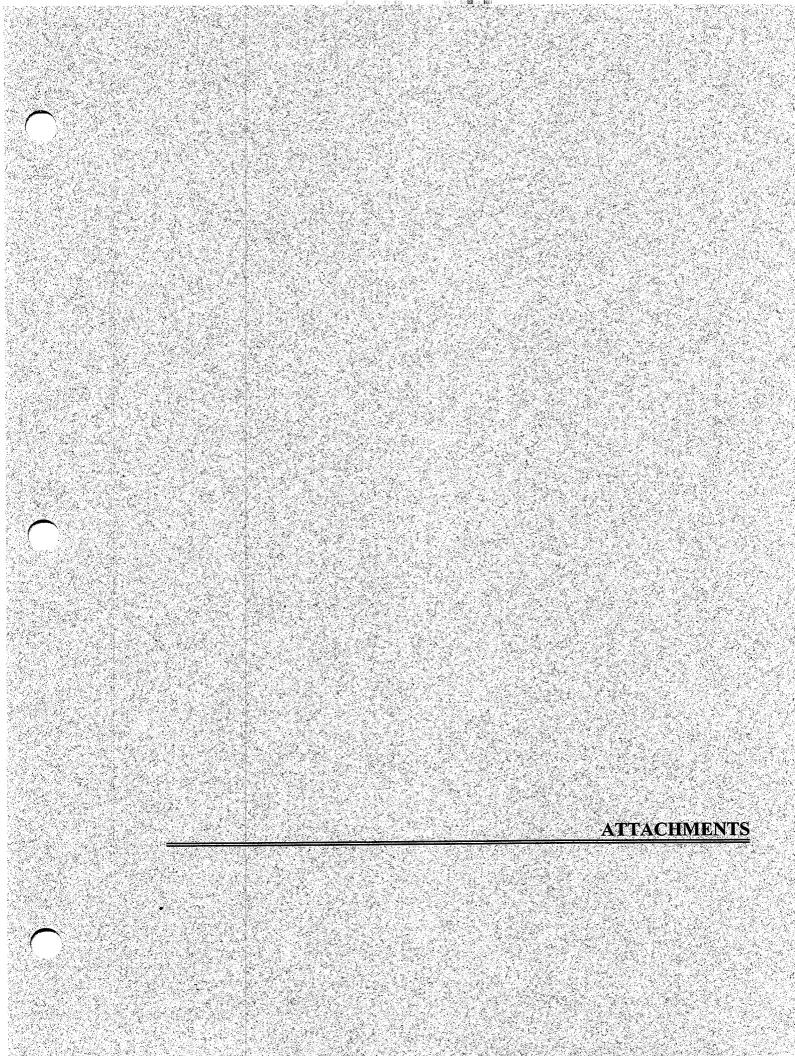






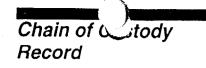


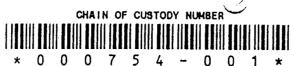




ATTACHMENT A CHAIN-OF-CUSTODY DOCUMENTATION

SITE 41



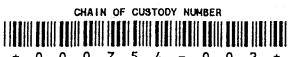


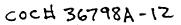


coc# 36798A-1Z

| OUA-4149-1 | | · · · · · · · · · · · · · · · · · · · | · U | |) 4 ~ | 0 0 1 | <u> </u> | | | | | | | | | | | |
|---------------------------------------|-------------|---------------------------------------|--------------|--------------------|--------------------|--|-----------|-----------------|-------------------------------|----------|----------|------|----------------|-------------|-----------------|--------|-------------------|-------|
| Client | | | | Project Manager | | | | D | ate | | | | | | | | | |
| aker Environmental, Inc. | | | | Baker En | vironmental | , inc. | | 0 | 1/08/1998 | | Pa | ge . | | | 1 | σ | f | |
| Address | | | | Telephone Numbe | ar (Area Code)/Fax | Number | | L | ab Location | T | | Ξ | | | | | | |
| Airport Office Park Bldg 3 | | | | (412) 269 | 9-6000 / (0 | 000) | : | Q | UANTERRA - KNOXVILL | | | | | | A | (nah | rsis | |
| City | State | Zip Code | | Site Contact | | ······································ | | ···· | • | M | М | мп | ΠŢ | M | М | н | Т | TT |
| Coraopolis | PA | 15108 | | Baker Env | vironmental | , inc. | | | | | 1 1 | ΤE | | | 1 1 | | | |
| Project Number/Name | | | | Carrier/Waybill Nu | mber | | ········ | | | | | | | | c | - 1 | | 11 |
| Camp LeJeune | | | | | Fed | EX | 80 | 77697 | 150890 | 1 | P | | | 1 | L | | | |
| Contract/Purchase Order/Quote Number | | | | | | | 00 | <u> </u> | 30010 | -1 | 3 | - I | | | P | - 1 | | |
| CONTRACT / PURCHASE ORDER # : | | 1998 | | | | | | | QUOTE: 21108 | 1 | 0 | 3 | | 1 | 3 | - 1 | | |
| Samula I D. Alimbert and Description | | | 1 | | Cor | ntainers | | | | ď. | | 0 | 1 | | 0 | | | |
| Sample I.D. Number and Description | on | Date | Time | Sample Type | Volume | Туре | No. | Preservative | Condition on Receipt/Comments | ľ | | | | 1. | 3 | 5 | | |
| IR41-GW02-98A~ | | 2-10 | 0800 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | ╁ | H | ∓ | 十 | ╄ | H | + | ╫ | ╁┼ |
| IR41-GW02-98A | | 2-10 | | WATER | 1000mL | PLASTIC | 1 | Conc HN03 | | f | x | ┰┼ | + | ┼ | \vdash | + | H | ╁┼ |
| IR41-GW02-98A | | 7-10 | | WATER | 1000mL | PLASTIC | 1 | | | ╁ | H | - | c x | ╁ | \vdash | + | ╫ | ╁┼ |
| IR41-GW10-98A. | | 2-9 | 1720 | WATER | 40mL | VIAL | 3 | | | V | Н | + | + | ┼ | \vdash | + | Н- | ++ |
| IR41-GW10-98A | | 2-9 | 1720 | WATER | 1000mL | PLASTIC | 1 | Conc HN03 | | ╀ | x | ┵ | + | + | $\vdash \vdash$ | +- | | ╁┼ |
| IR41-GW10-98A | | 2-9 | 1720 | | 1000mL | PLASTIC | 1 | | | ╁ | H | | (x | + | ┝┿ | + | - | ╁ |
| INTER-CHEF-SOR | | | 1,100 | MATER | 40AL | VIAL | 2 | 1+1-HOL- | | TY. | H | + | + | ┼ | H | + | ╁┼ | ╁┼ |
| LR42-9442-984 | | | - | WATED | 1000mL | PLASTIC | | Ouric Hitos | • | f | x | ┰┼╴ | + | ┼─ | \vdash | + | H | + |
| JAZI-comf1200A | | | | WATER | 1000-1 | PLASTIC | | None | | ╁╌ | Ĥ | _ | d x | +- | ┝╼┼ | + | ╫ | ╁┼ |
| LAST BUZDESBA | | | | WATER | 40-1 | VIAL | | 1.1 HOL | | X | \vdash | + | + | ₩ | - | | | ╁┼ |
| HB169812HB18A | | | 1 | WATER | 1000uL | PLASTIC | | Conc HH93 | | - | X | | + | ╁╌ | ┝┼ | + | $\vdash\vdash$ | ╁┼ |
| LREG-CHESTON STA | | | | WATER | 1000=L | PLASTIC | | None | | ╀ | ^ | | d x | ╁╌ | \vdash | - | - | ╁┼ |
| HATE OFFE SER | | ···· | | WATER | 40e1 | VIAL | , | 1.1 401 | | x | - | +^ | +^ | ╀┙ | \vdash | 1 | ₩- | ╁┼ |
| JROZ-BIETZ-BEA- | | | | HATER | 1000mL | PLASTIC | | Oone HNO2 | | - | X | ᅪ | + | ┦┦ | ┢┷╂ | + | - | ╁┼ |
| TH-C3-0415=964 | | | 1 | WATER | 1000mL | PLASTIC | | NOIR | | \vdash | 4 | | ╁╸ | ┦ | ┿ | + | ₩ | ₩ |
| | | | | - INTER | 1000mb | TEASITO | | NOIN- | | - | - | +^ | (X | ₽ | - | +- | Н- | ╁┼ |
| Special Instructions | L | | 11 | <u> </u> | | | | | | Ш | \perp | ㅗ | 丄 | Ш | | | Ш | ᄔ |
| | | | | | * | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | Sample Dispos | sal | | | | | | | | | | | | |
| Non-Hazard Flammable | Skin | Irritant | Poison B | Unknow | | | ∇ | sposal By Lab | Archive For Months | (A | ee i | nay | be a | 2550 | 3556 | d il s | an ple | s are |
| Turn Around Time Required | OK#7 | mmanı L | J POISOIT D | QC Level | # ILL;netom | Project | pocific | Requirements (5 | | | | | | | | | | |
| Normal Rush T. Relinquished By | 7~ | | | | | Flojecis | pecinc | nequirements (s | Бр еспу) | | | | | | | | | |
| T. Relinquished By | Othe | 97 | | Date | Time | 1. Receive | d Bu | | | | | | g(e | | | | | |
| 10, 1 | ' 0 | · / | | 2-10-98 | • | 1. 11000110 | <i> ,</i> | FeJE x | | | | | | | , | 2.0 | Tong | |
| 2. Relinquished By | | <u> </u> | | Date | 1700 Time | 2.0000 | 40. | red E > | < | | | | | <u>10</u> | | 18 | Ι, | 100 |
| · · · · · · · · · · · · · · · · · · · | | | | Date | I ime | 2. Receive | а ву | | | | | De | ele | | | | line. | |
| 3. Relinquished By | | | | Coto | <u> </u> | | | | | | | 丄 | | · | | | - | |
| or consideration by | | | | Date | Time | 3. Receive | d By | | | | | De | ile | | / | | Time | |
| | | | | | | | | | | | | | | | | | | |

Chain of Custody Record







| QUA-4149-1 | | , | * U | 0 0 1 | <i>)</i> 4 - | 0 0 2 | * | | | | | | | | | | | |
|--|-------------|---------------------------------------|-------------|--|---------------------------|------------------|-------------|----------------|---------------------------------------|-----------|-------------|-----------|------------------|---------------|----------------|-------------------|-------------------|----------|
| Client | | · · · · · · · · · · · · · · · · · · · | | Project Manager | | | | D4 | ile | Τ | | | | | | | | |
| Baker Environmental, Inc. | | | | Baker En | vironmental | , Inc. | | lo | 1/08/1998 | | Pa | ge_ | | 2 | 0 | <i>i</i> | | 4 |
| Address | | | | | er (Area Code)/Fax | | | | b Location | \dagger | | | | | | | | |
| Airport Office Park Bidg 3 | | | | (412) 26 | 9-6000 / (0 | 000) | | Q | UANTERRA - KNOXVILL , | | | | | Þ | 4 <i>na</i> ly | psis | | • |
| City | State | Zip Code | | Site Contact | | | | | | M | М | M T | TM | 4 H | н | П | ΤT | \neg |
| Coraopolis | PA | 15108 | | Baker En | vironmenta: | inc. | | | | | c | | 8 8 | 3 T | c | | | |
| Project Number/Name | | <u> </u> | | Carrier/Waybill No | | | | C | | | | C 8 | | 3 c | L | | | |
| Camp LeJeune | | • | | | | FOLF | × | 80276 | 9750890 | 2 | | | 2 | | р | | | |
| Contract/Purchase Order/Quote Number | | | | | | | | | | 6 | | Р | e | 1 1 | 3 | | | |
| CONTRACT / PURCHASE ORDER # : | | 1998 | | | Y | | | | QUOTE: 21108 | 0 | 0 | 3 | | 3 | 1 1 | | | |
| Sample I.D. Number and Description | חכ | Date | Time | Sample Type | Volume Cor | ntainers Type | No. | Preservative | Condition on Receipt/Comments | L | 1 1 | L | 9 | 1 1 | 5 | | | |
| IR41-UT-SW01-98A | | 2-10 | 0810 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | П | | \sqcap | 17 | | \sqcap | 11 | 十 |
| IR41-UT-SW01-98A | | 2-10 | 0810 | WATER | 1000mL | PLASTIC | 1 | Conc HNO3 | | T | x | X | | + | | \sqcap | †† | \top |
| +0.44_UT-0W00-00A | | | 1013 | MATER | TOME | | - | | | X | Ħ | 1 | | 11 | \sqcap | \Box | 11 | 十 |
| +R44-UT-SW00-08A- | | | | WATER | 1000-1 | DL 107+0 | | THE UNION | | 1 | X | x | | 11 | | \Box | 11 | 十 |
| 4841-07-0003-886 | | | | WATER | ***** | W.A. | | | | X | П | \top | 一 | 11 | \Box | \Box | 11 | \top |
| LD41-IIT-SWO3-98A | | | | WATER | 1000=1 | DIARTIC | | - was | | T | x | x | | \dagger | | $\dagger \dagger$ | $\dagger \dagger$ | 1 |
| 1044-78-01119-00R | | | 1 | WITEI | 19 | V484 | - | Tel noe | | X | H | | 一 | 11 | | 11 | 11 | \top |
| LD41_TC_RW10_DB4 | | | | WYEN | 1000-1 | - | | - | | T | x | x | \sqcap | \top | \sqcap | \Box | 11 | \top |
| 4844 TO ONT 1 SOR | | ······· | | MATER | | 1111 | - | T.T HOE | | X | П | 1 | 厅 | \Box | 广 | $\dagger \dagger$ | 11 | \top |
| LD41-TC-9W11-994 | | | <u> </u> | ***** | 100000 | PLASTIC | | CODC HNO3 | | 1 | X. | <u>.x</u> | \Box | 11 | 二十 | Π | $\dagger \dagger$ | \top |
| 7944-70-01112-00IP | | | 1 | WIER- | 10 | | - | | | X | | \top | \Box | 11 | \sqcap | Π | 77 | 十 |
| CALL TO CHIA DE | | ' | 1 | WATER | 1000-1 | DL 10T10 | | | | T | X | X | \Box | | | 11 | \Box | 十 |
| IR41-DD-SW01-98A | | 2-9 | 1625 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | \Box | _ | \vdash | | | \prod | | 1 |
| IR41-DD-8W01-98A | | 2-9 | 1625 | WATER | 1000mL | PLASTIC | 1 | Conc HNO3 | | 1 | X | X | \sqcap | \top | | \top | 11 | \top |
| IR41-DD-SW02-98A | | 2-9 | 1740 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | \Box | \top | \sqcap | | | 11 | 11 | \top |
| IR41-DD-SW02-98A | | 2-9 | 1740 | WATER | 1000mL | PLASTIC | 1 | Conc HNO3 | | 1 | X | X | | | 厂 | 1 | | |
| Special Instructions Possible Hazard Identification | | | | | | | | | | | | | | | | | | |
| Non-Hazard Flammable | Skin | Irritant | Poison B | | Sample Dispo wn Return | To Client (| X) | isposal By Lab | Archive For Months | (A ret | fee aine | may l | oe as. ger ti | sess van 3 | ed if 3 mor | 22mp/ 286/ | es ar | <i>e</i> |
| Turn Around Time Required Normal Rush | Othe | or | | OC Level | y. 🔲 <i>y</i> y. | Project S | Specific | Requirements (| Specify) | | | | | | | | _ | |
| 1. Relinquished By | | . 0 | | Date | Time | 1. Receive | | • | | _ | | Da | la | | | Time | , | |
| 19. 4. | /. £ | | | 2-10-9 | 8 1700 | | 1 | Fed Ex | | | | Z | k | 0-6 | 98 | - 1 | 70 | • |
| 2. Relinquished By | <i>-</i> | | | Date | Time | 2. Receive | | | | | | Da | _ | | | Terre | , | |
| 3. Relinquished By | | | · | Date | Time | 3. Receive | ed By | · | | | _ | Da | le . | | | Torse | , | |
| | | | | 1 | | | | | | | | | | | | | | |
| Comments | | | | ······································ | | | | | · · · · · · · · · · · · · · · · · · · | | | | | | $\neg \gamma$ | 7 | | |





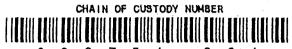


coc # 36798A - 12

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| Client | | | | Project Manager | | | | D. | ale | T | | | | | | | | | |
| Baker Environmental, Inc. | | | | Baker Env | /ironmental | , Inc. | | o | 1/08/1998 | | P | age | | | 3_ | af | <u></u> | | 4 |
| Address | | | | Telephone Numbe | r (Area Code)/Fax | Number | | L | ab Location | 十 | | <u> </u> | | | | | | | |
| Airport Office Park Bidg 3 | | | | (412) 269 | 3-6000 / (0 | 00) | | Q | UANTERRA - KNOXVILL | 1 | | | | | A | naly. | zis | | |
| City | State | Zip Code | | Site Contact | | | | | | H | M | Н | TT | M | H | 4 | П | П | \Box |
| Coraopolis | PA | 15108 | | Baker Env | /ironmental | , Inc. | | | | 8 | c | | DS | 3 | т (| 3 | | | , |
| Project Number/Name | | | | Carrier/Waybill Nur | | | | · · · · · · · · · · · · · · · · · · · | | 8 | L | c | ន ន | 8 | c l | 니 | | | |
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| Contract/Purchase Order/Quote Number | | | | | | | J | | | | 3 | | | 6 | P 3 | 3 | | | |
| CONTRACT / PURCHASE ORDER # : | | 1998 | | | | | | | QUOTE: 21108 | , | 0 | 3 | | 1 1 | 3 0 | ا (د | | | |
| Sample I.D. Number and Descripti | ion | Date | Time | Sample Type | Cor | ntainers | | Preservative | Condition on Pagaint/Commants | L | 1, | 0 | | 111 | 0 | ٠ | | | . |
| | 011 | Date | Tille | Sample Type | Volume | Туре | No. | Fieservauve | Condition on Receipt/Comments | L | L | 니니 | | 8 | 3 | 3 | | Ш | |
| IR41-UT-SD01-98A V | | 2-10 | 0815 | SOLID | 120mL | CLEAR GL | 1 | None | | | | П | | | X | X | Т | П | |
| IR41-UT-8D01-98A | | 2-10 | 0815 | SOLID | 120mL | CLEAR GL | 1 | None | | T | Γ | | | X | \prod | | | \prod | |
| IR41-7801-98A | | 2-9 | 1200 | Water | 40 ml | Clear | 3 | HCI | | X | T | П | T | П | П | \prod | П | П | |
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| Special Instructions | | | | | | | l | | | <u></u> | | | | <u></u> | | | | | |
| Possible Hazard Identification Non-Hazard Flammable Turn Around Time Required | Skii | n Irritant | Poison B | | Sample Dispo | To Client (| | isposal By Lab | Archive For Months | (A ret | fee tain | ma ed k | y be onge | asse r tha | 9858 in 3 | d ii s moni | ampli hs) | es ar | re |
| Normal Rush | Oth | ner | | OC Level | | Project S | pecific | : Requirements (| Specify) | | | | | | | | | | <u>-</u> _ |
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| 3. Relinquished By | | | | Date | , Time | 3. Receive | d By | | | | | + | Date | | | | Time | , | |
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| Comments | | | | <u> </u> | <u> </u> | | | ······································ | | | | | | | | | | | |

Chain of Custody Record

DISTRIBUTION: WHITE - Slavs with the Sample: CANARY - Detumed to Client with Decad City

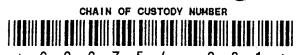




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| Client | | | | Project Manager | | | | Date | \top | | | | | | | | |
| Baker Environmental, Inc. | | | | Baker En | vironmenta! | , Inc. | | 01/08/1998 | | Pi | age . | | 4 | 4 | of | | 4 |
| Address | | | | | r (Area Code)/Fax | | | Lab Location | \neg | | | | | | | | |
| Airport Office Park Bidg 3 | | | | (412) 25 | 9-6000 / (0 | 000) | • | QUANTERRA - KNOXVILL | | | | | | Ana | dysis | | |
| City | State | Zip Code | | Site Contact | | | | | H | 4 H | M | TT | MH | 4 H | TT | \top | TT |
| Coraopolis | PA | 15108 | | Baker En | viron me ntal | Inc. | | . • | 8 | s c | T | DS | 3 1 | r c | | | |
| Project Number/Name | | | | Carrier/Waybill Nu | mber | | | | ⊣ 8 | | | 3 3 | 8 (| 니니 | - | | |
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| IR41-DD-SD01-98A | | 7-9 | 1630 | SOLID | 120mL | CLEAR GL | 1 None | | \dashv | +1 | M | ++ | 17 | K X | ++ | ++ | |
| IR41-DD-SD01-98A | | 2-9 | 1630 | SOLID | 120mL | CLEAR GL | 1 None | | \dashv | H | \vdash | ++ | X | 11 | ++ | - - | ++ |
| 1R41-DD-SD02-98A | | 7.9 | 1740 | SOLID | 120mL | CLEAR GL | 1 None | | 1 | ++ | \vdash | ++ | +7 | x x | ++ | ++ | |
| IR41-DD-SD02-984 | | 2-9 | | SOLID | 120mL | CLEAR GL | 1 None | | + | +1 | \vdash | ++ | X | ++ | ++ | ++ | |
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| Special Instructions | | | J | <u> </u> | | L | | | | 41 | <u></u> _ | | | | ــــــــــــــــــــــــــــــــــــــ | | |
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| Possible Hazard Identification | | | , | | Sample Dispo: | | <u> </u> | | (A | fee | may | be as | sses | sed i | í samç | oles ar | е |
| Non-Hazard Flammable Tum Around Time Required | Skin | Irritant | Pòison B | | n Return | To Client | Disposal By La | ab Archive For Month | is ret | taine | ∍d lo | nger t | han | 3 тс | inatis) | | |
| Tum Around Time Hequired | | | | QC Level | | Project Spe | cific Requiremen | nts (Specify) | | | | | | | | | |
| Normal Rush T. Relinquished By | Othe | <u> </u> | | <u> </u> | | | | | | | | | | | | | |
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| - (X 7. Ca | تملم | il_ | | 2-10-98 | | | FedE | -× | | | | Z-1 | 0 - | 98 | | 7 • • | , |
| 2. Relinquished By | | - · | | Date | Time | 2. Received I | ly | | | | ۵ | ate | | | Ten | H 0 | |
| | | | | | 1 | | | | | | | | | | | | |
| 3. Relinquished By | | | | Date | Time | 3. Received E | Ву | | | | D | ale | | | Tim | ю | |
| | | | | - | 1 | | | | | | | | | | | | |
| Comments | | | | *************************************** | | `` | | | | | | | | | · \ | | |
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coc# 36798A - 14

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| Client | | | | Project Manager | | | | [2 | Pale | Г | | | | | | | - | , | |
| Baker Environmental, Inc. | | | | Baker En | vironmental | , Inc. | | a | 1/08/1998 | | Pag | ge_ | | 1 | 1 | of_ | | * | |
| Address | | | | Telephone Numbe | er (Area Code)/Fax | Number | | L | ab Location | T | | | | | | | | | |
| Airport Office Park Bldg 3 | | | | (412) 26 | 9-6000 / (0 | 00) | | l c | UANTERRA - KNOXVILL | | | | | | Ana | alys | S | | |
| City | State | Zip Code | | Site Contact | | | | | | M | H I | M T | T | ММ | М | \sqcap | П | | П |
| Coraopolis | PA | 15108 | | Baker En | vironmental | , inc. | | | | 8 | c l | rβ | 8 | S T | cc | | | | |
| Project Number/Name | | | | Carrier/Waybill Nu | mber | | | | | | | | 8 | | ا يا ; | . | | | |
| Camp LeJeune | | | | | Fed | Ex S | ₹ <i>₼</i> ⁻ | 27697 | 51018 | 1 1 | P | - 1 | 1 1 | 2 L | . Р | | | | Н |
| Contract/Purchase Order/Quote Number | | | | | | <u>-15 (</u> | <u> </u> | <u> </u> | 3.0.10 | _ | 3 6 | - 1 | 1 1 | 6 P | , 3 | | | | |
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| | | | | Three . | | | | | | Н | 一 | | x | 1 | \top | _ | $\top \uparrow$ | | _ |
| IR41-GW11-98A | | 2-11 | 0830 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | х | \sqcap | + | \sqcap | + | # | + | | | |
| IR41-GW11-98A | | 2-11 | 0830 | WATER | 1000mL | PLASTIC | 1 | Conc HN03 | | H | x x | x T | H | + | 11 | + | $\dagger \dagger$ | _ | |
| IR41-GW11-98A | | 2-11 | 0830 | WATER | 1000mL | PLASTIC | 1 | None | | H | \vdash | _ | x | \top | ++ | + | П | | _ |
| IR41-GW11DW-98A | | 2-11 | 0900 | WATER | 40mL | VIAL | 3 | 1:1 HCL | † · · · · · · · · · · · · · · · · · · · | x | \perp | 十 | \forall | + | + | + | H | \top | + |
| IR41-GW11DW-98A | | 2-11 | 0900 | WATER | 1000mL | PLASTIC | 1 | Conc HN03 | | 11 | X X | <u>, </u> | \Box | + | + | + | \Box | $\forall \exists$ | _ |
| IR41-GW11DW-98A | | Z-11 | 0900 | WATER | 1000mL | PLASTIC | 1 | None | | H | 十 | _ | x | + | \forall | + | H | + | + |
| IR41-GW12-98A | ···· | 2-11 | 1100 | WATER | 40mL | VIAL | 3 | 1:1 HCL | • | х | + | + | H | + | $\dagger \dagger$ | + | \Box | + | + |
| IR41-GW12-98A | | 2-11 | 1100 | WATER | 1000mL | PLASTIC | 1 | Conc HNO3 | | | X 3 | \mathbf{t} | H | | $\dagger \dagger$ | + | \vdash | + | _ |
| IR41-GW12-98A | | 2-11 | 1100 | WATER | 1000mL | PLASTIC | 1 | None | | H | + | | X | + | + | + | | 1-1 | |
| IR41-TBØZ-98A | | 2-11 | 0700 | water | to 40 ml | | 7 | 1:1401 | | M | _ | + | H | | +++ | + | | +- | |
| Special Instructions | · · · · · · · · · · · · · · · · · · · | | N (O- | | 10 - 10 M | | | | | | | _ | | | | | | | |
| Possible Hazard Identification Non-Hazard Flammable | Skir | ı Irritant | Pòison B | Unknow | Sample Dispo | /. | 3 | sposal By Lab | Archive For Months | (A f | ee n inec | nay l 1 lon | be as ger t | sses han | sed ii 3 mc | if san onths, | ples | are | |
| Turn Around Time Required Normal Rush | Oth | er | | QC Level | | Project 3 | p oci fic | : Requirements (| Specify) | | | | | | | | | - | |
| T. Relinquished By | ml | iel | | Date 2-11-98 | | 1. Receive | | FedE | Κ | | | Da | <u>- 1</u> | <u>. l -</u> | 98 | | | 00 | |
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| Community | | | | 1 | | | | | | | | | | | | | | | |



Chain of Castody Record

CHAIN OF CUSTODY NUMBER

COC#36798A - 14

| QUA-4149-1 | | ; | * U | 0 0 7 | 5 4 - | 0 0 2 | * | | | | | | | | | | | | |
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| Client | | | | Project Manager | | | | D | ale | | | W-1 | | | | - | 2 | | |
| Baker Environmental, Inc. | | | | Baker Er | vironmental | , Inc. | | O | 1/08/1998 | | Pag | је _ | | 2 | c |)f | <u>3</u> , | <u>*</u> | |
| Address | | | | Telephone Numb | er (Area Code)/Fax | Number | | Le | ab Location | Τ | | | | | 4 | | | | ****** |
| Airport Office Park Bldg 3 | | | | (412) 26 | 9-6000 / (0 | 000) | | | UANTERRA - KNOXVILL | | | | | • | Anai | ysis | | | |
| City | State | Zip Code | | Site Contact | | | | | , | Н | M | MT | TI | ММ | М | Π | | | Γ |
| Coraopolis | PA | 15108 | | | vironmental | , Inc. | | | | S | C. | ΤD | 8 | S T | C | 11 | 11 | . | |
| Project Number/Name | | | | Carrier/Waybill No | ımber | 1_ | 0.4 | | | 8 | L | େ 3 | 8 | | | {. } | - | | |
| Camp LeJeune | | *************************************** | | <u> </u> | re. | 7FX | ४८ | 12169 | 751098 | 2 | P | 니 | | 2 L | P | | | | |
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| CONTRACT / PURCHASE ORDER # : | | 1998 | | | | | | | QUOTE: 21108 | J 0 | 0 | 3 |]] | 0 3 | 0 | | | | |
| Sample I.D. Number and Description | 20 | Date | Time | Sample Type | Сог | ntainers | | Preservative | Condition on Bossint/Comments | ٦, | 1: 1 | 0 | 1 1 | : 0 | 1 ' 1 | 11 | | ļ | |
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| A CONTRACT OF A | | | | | | TEROTTO | | 00/10 17623 | | | X | X | | | | | TT | | |
| IR41-UT-SW02-98A | | 2-11 | 0901 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | | | | | | | | | |
| IR41-UT-SW02-98A | | 2-11 | 1090 | WATER | 1000mL | PLASTIC | 1 | Conc HNO3 | | | X | X | | | | | | | |
| IR41-UT-SW03-98A | | 2-11 | 0840 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | | | | | | | | | |
| IR41-UT-SW03-98A | | Z-11 | 0840 | WATER | 1000mL | PLASTIC | 1 | Conc HN03 | | | X | X _ | | | Ш | | | | |
| IR41-TC-SW10-98A | | 2-11 | 1235 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | | | | | | | | | |
| TR41-TC | <u>-5W10</u> | -98A | 1235 | 44455 | - Contract | | | TORROW WATER | | | X X | K | | | | | | | |
| 1R41-TC-SW11-98A | | 2-11 | 1050 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | | | | | Ш | | | | L |
| IR41-TC | SWILL | | 1050 | WATED. | 1000-1 | 10110 | | بعننسيوب | | | X 3 | K | Ш | | Ш | | $\perp \perp$ | | L |
| IR41-TC-SW12-98A | | 2-11 | 1025 | WATER | 40mL | VIAL | 3 | 1:1 HCL | | X | | | | | | | Ш | | L |
| IR-TC-SI | N15-4 | 8A | 1025 | | - The same | 7-2110-770 | | يا النواسات | | \perp | X 2 | <u> </u> | Щ | \perp | | $\perp \perp$ | $\perp \perp$ | | |
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| Hart at all at the same of | | | | | | T-2010 | | our into | | \perp | X | X. | Ш | $\perp \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$ | Ш | $\perp \perp$ | $\bot \bot$ | | |
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| Special Instructions Analyze Alth | pust | n Crosse | 9 ont | water | 1000ml | Plastic | 1 | HN03 | | | | | | | | | | | |
| Possible Hazard Identification Non-Hazard Flammable | Skin | Irritant | Roison B | Unkno | Sample Dispo | _ | R | sposal By Lab | Archive For Month's | (A ret | fee n ainec | nay l d lon | be as ger ti | sess han 3 | ed if : 3 mon | sampi ths) | les ar | e | |
| ZoTh Around Time Required | | | _ roson b | QC Level | r 7 | | | Requirements (| | | | | | | | ···· | | | |
| Normal Rush | Othe | <u> </u> | | | I III. | 4 0 | J 5 | | · | | | Dai | | | | Time | | | |
| Treminguished by | - | il | l | 2-11-98 | Time | 1. Receive | а ву | Feds | - ሩ _የ | | | | | (- ⁽ | 98 | 1 1 | " 179 | 36 | |
| 2. Relinquished By | | | | Date | Time | 2. Receive | d By | | | | | Dai | to | | | Time | , | | |
| 3. Relinquished By | | · | · · · · · · · · · · · · · · · · · · · | Date | Time | 3. Receive | d By | | | | | Dai | le | | | Time | ; | | |
| Comments | | | | l | | | | | | | | <u></u> | | | | 1 | | | |
| DISTRIBUTION: WHILE - Stays with the Sam | ple; CAN | ARY - Returned | d to Client | with Report: PINK | - Field Copy | <u>i</u> | | | | | | | | | | 1 | | | |

Chain of Custody Record





COC# 36798A - 14

| QUA-4149-1 | 7 | , O | 0 0 7 | J 4 - | 0 0 4 | | | | | | | | | | | |
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| Client | | | Project Manager | | | | 1 | Date | | | | 2 | | | 3 | |
| Baker Environmental, Inc. | | | Baker En | vironmental | , inc. | | | 01/08/1998 | | Pag | e | <u> </u> | <u> </u> | of | _ | <u> </u> |
| Address | | | Telephone Numbe | er (Area Code)/Fax I | Vumber | | | ab Location | | | | | Ans | iysis | | |
| Airport Office Park Bldg 3 | | | (412) 26 | 9-6000 / (0 | 00) | | ŀ | QUANTERRA - KNOXVILL | <u> </u> | | | | 7/16 | , 5.15 | | |
| City Stat | e Zip Code | | Site Contact | | | | | | | ı i | 1 1 | TM |) | | | |
| Coraopolis P. | A 15108 | | Baker En | viron me ntal | , Inc. | | | | | - 1 | | 3 3 | . 1 1 | | | |
| Project Number/Name | | | Carrier/Waybill Nu | mber | _ | | | | 8 | 니 | 3 3 | 3 8 | CL | | | |
| Camp LeJeune | | | | Fed F | -x 80 | 2 | 76971 | 51018 | 2 | P | - | 2 | L P | | | |
| Contract/Purchase Order/Quote Number | | | <u> </u> | | | | **** | | 6 | 3 F | > | 6 | P 3 | | | |
| CONTRACT / PURCHASE ORDER # : | 1998 | | | T | | | | QUOTE: 21108 | 0 | | 3 | 1 1 | 3 0 | | | |
| Sample I.D. Number and Description | Date | Time | Sample Type | Con Volume | tainers Type | No. | Preservative | Condition on Receipt/Comments | L | ١. | | s | 8 8 | | | |
| IR41-UT-SD02-98A | 2-11 | 905 | SOLID | 120mL | CLEAR GL | 1 | None | | | | Щ | | X X | | | |
| IR41-UT-SD02-98A | Z-11 | 0905 | SOLID | 120mL | CLEAR GL | 1 | None | - | | | Ш | X | | | \perp | |
| IR41-UT-SD03-98A | 2-11 | 0845 | SOLID | 120mL | CLEAR GL | 1 | None | | | | | $\perp \! \! \! \! \! \perp \! \! \! \! \! \! \! \! \! \! \! \! \!$ | X X | | | |
| IR41-UT-SD03-98A | 2-11 | 0845 | SOLID | 120mL | CLEAR GL | 1 | None | | | | \coprod | X | | | | |
| IR41-TC-SD10-98A | 2-11 | 1240 | SOLID | 120mL | CLEAR GL | 1 | None | | | | | | XX | | | |
| IR41-TC-SD10-98A | 2-11 | 1240 | SOLID | 120mL | CLEAR GL | 1 | None | · | | | | Х | | | | |
| IR41-TC-SD11-98A | 2-11 | 1055 | SOLID | 120mL | CLEAR GL | 1 | None | | \prod | | \prod | | XX | | | |
| IR41-TC-SD11-98A | 2-11 | 1055 | SOLID | 120mL | CLEAR GL | 1 | None | | | | | X | | | | |
| IR41-TC-SD12-98A | 2-11 | 1230 | SOLID | 120mL | CLEAR GL | 1 | None | | | | | | XX | | | |
| IR41-TC-SD12-98A | 2-11 | 1230 | SOLID | 120mL | CLEAR GL | 1 | None | | | . 30. | \prod | X | | | | |
| IR41-DD-SD01-98A | | | SOLID | 120mL | CLEAR GL | 1 | None | | | | | | XX | | L | |
| IR41-DD-SD01-98A | | | SOLID | 120mL | CLEAR GL | 1 | None | | | | | X | | | | |
| IR41-DD-SD02-98A | · · · · · · · · · · · · · · · · · · · | | SOLID | 120mL | CLEAR GL | . 1 | None | | | | | | X X | | | |
| IR41-DD-SD02-98A | | | SOLID | 120mL | CLEAR GL | 1 | None | | | | П | X | | | | |
| | | + | | | | | | | | | \prod | | | | 7 | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | | \sqcap | \neg | Π | | | | | |
| Special Instructions Possible Hazard Identification | | | | Sample Dispo | | | \ \ | | (A) | fee n | nay t | e ass | essed | if samp | oles a | ıre |
| Non-Hazard Flammable | Skin Irritant | _ Poison E | 3 Unkno | wn Return | To Client(| <u> </u> | sposal By Lab | Archive For Months | reta | ainec | i iong | er ina | in 3 m | onins) | | |
| Turn Around Time Required | | | QC Level | | Project S | ocific | Requirements | (Specify) | | | | | | | | |
| 1. Relinquished By | Other | | . L. I | y. 🔲 ##. | | | | - | | | | | | | | |
| 1. Relinquished By | P | | Date | Time I | 1. Received | Ву | _ | | | | Date | | 0 | Tin | | _ |
| 1/1. 1. | 1:1.1 | | 2-11-98 | 3 1700 | | | tea | I Ex | | | | | 1-9 | | | 00 |
| 2. Relinquished By | ' ' | | Date | Time | 2. Received | Ву | | | | | Date | 8 | | Tin | 10 | |
| 3. Relinquished By | | | Date | Time | 3. Received | 1 Ву | , | | | | Date | ə | | Tin | е | |
| | | | | | | | | | | | | | | | | |
| Comments | | | | • | | | | | | | | | | | | |

SITE 74

Chain of Custody Record



COC# 36798A-10



OHA-4149-1 Date Client Proiect Manager Page of___ 01/08/1998 Baker Environmental, Inc. Baker Environmental, Inc. Lab Location Address Telephone Number (Area CodeVFax Number Anaivsis QUANTERRA - KNOXVILL Airport Office Park Bldg 3 (412) 269-6000 / (000) Site Contact State Zip Code CTDS РΔ 15108 Baker Environmental, Inc. Coraopolis Project Number/Name Carrier/Waybill Number LCSS Fed Ex 802769751040 Camp LeJeune Contract/Purchase Order/Quote Number 1998 n 3 QUOTE: 21108 CONTRACT / PURCHASE ORDER # : 0 Containers Sample I.D. Number and Description Date Time Sample Type Preservative Condition on Receipt/Comments Volume Type No. -22 1310 WATER 1000mL PLASTIC Conc HNO3 1 IR74-GW01-98A 1000mL PLASTIC 1 None 1310 WATER IR74-GW01-98A PLASTIC 1 Conc HNO3 1110 WATER 1000mL 1R74~GW02~98A 1110 WATER 1000mL PLASTIC 1 None 1R74-GW02-98A x x 1220 PLASTIC 1 Conc HN03 WATER 1000mL · IR74~GW03A~98A 12.20 PLASTIC 1 None WATER 1000mL IR74-GW03A-98A хх 1010 WATER 1000mL PLASTIC 1 Conc HNO3 1R74-GW07-98A None 1010 WATER 1000mL PLASTIC 1R74-GW07-98A Special Instructions Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are Return To Client Disposal By Lab Months retained longer than 3 months) Archive For Poison B Unknown Non-Hazard Flammable Skin Irritant Project Specific Requirements (Specify) Turn Around Time Required QC Level Other Rush 1. Received By Relinguished By FEDEX 700 1700 2. Received By 2. Relinguished By Date Time Time 3. Received By 3. Relinguished By Date Comments

ATTACHMENT B
MONITORING PROGRAM ANALYTICAL RESULTS

GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

| SAMPLE ID | IR41-GW02-98A | IR41-GW10-98A | IR41-GW11-98A | IR41-GW11DW-98A | IR41-GW12-98A |
|----------------------------|---------------|---------------|---------------|-----------------|---------------|
| DATE SAMPLED | 02-10-1998 | 02-09-1998 | 02-11-1998 | 02-11-1998 | 02-11-1998 |
| | | | | | |
| VOLATILES (ug/L) | | • | | | |
| 1,1,1-Trichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethene (total) | 5 U | 5 U | 5 U | 0.98 J | 5 U |
| 1,2-Dichloropropane | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone | 20 U | 20 U | 20 U | 20 U | 20 U |
| 2-Hexanone | 20 U | 20 U | 20 U | 20 U | 20 U |
| 4-Methyl-2-pentanone | 20 U | 20 U | 20 U | 20 U | 20 U |
| Acetone | 20 U | 20 U | 13 J | 20 U | 20 U |
| Benzene | 5 U | 5 U | 2.6 J | 1.1 J | 5 U |
| Bromodichloromethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromomethane | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon disulfide | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 U | 5 U | 1.1 J | 5 U | 5 U |
| Chloroethane | 10 U | 10 U | 10 U | 10 U | 10 U |
| Chloroform | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloromethane | 10 U | 10 U | . 10 U | 10 U | 10 U |
| Dibromochloromethane | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | , 5 U | 5 U | 5 U | 5 U | 5 U |
| Methylene chloride | 1.6 ЛВ | 1.4 JB | 2.1 JB | 2 ЈВ | 2.3 JB |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Tetrachloroethene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl chloride | 10 U | 10 U | 10 U | 10 U | 10 U |
| Xylenes (total) | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 U | 5 U | 5 U | 5 U | 5 U |

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GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA TOTAL METALS AND WET CHEMISTRY

| SAMPLE ID | IR41-GW02-98A | IR41-GW10-98A | IR41 - GW11-98A | IR41-GW11DW-98A | IR41-GW12-98A |
|------------------------|---------------|---------------|------------------------|-----------------|---------------|
| DATE SAMPLED | 02-10-1998 | 02-09-1998 | 02-11-1998 | 02-11-1998 | 02-11-1998 |
| TOTAL METALS (ug/L) | | | | | |
| Aluminum | 31.6 J | 1270 | 200 U | 200 U | 200 U |
| Antimony | 60 U | 60 U | 60 U | 60 U | 60 U |
| Arsenic | 10 U | 10 U | 3.3 J | 10 U | 10 U |
| Barium | 76.9 Ј | 20,7 Ј | 519 | 50.9 J | 23.1 Ј |
| Beryllium | 5 U | 5 U | 5 U | 5 U | 5 U |
| Cadmium | 5 U | 5 U | 5 U | 5 U | 5 U |
| Calcium | 161000 | 3070 Ј | 116000 | 254000 | 53700 |
| Chromium | 6.6 J | 10 U | 3.9 J | 11 | 10 U |
| Cobalt | 50 U | 50 U | 6.8 J | 50 U | 14.6 J |
| Copper | 15.1 J | 8.4 J | 10.8 Ј | 25 U | 6.7 J |
| Iron | 33700 | 728 | 39500 | 3410 | 4910 |
| Lead | 3 U | 3 U | 12.6 | 3 U | 3 U |
| Magnesium | 23600 | 802 J | 23800 | 7440 | 3070 J |
| Manganese | 428 | 7.2 Ј | 332 | 139 | 110 |
| Мегсигу | 0.06 Ј | 0.2 U | 0.049 J | 0.081 J | 0.035 J |
| Nickel | 40 U | 40 U | 17 J | 40 U | 40 U |
| Potassium | 16600 | 5000 U | 32300 | 1600 J | 5000 U |
| Selenium | 5 U | 5 U | 5 U | 5 U | 5 U |
| Silver | 10 U | 10 U | 10 U | 10 U | 10 U |
| Sodium | 28600 | 8240 | 58300 | 222000 | 6560 |
| Thallium | 3.2 J | 10 U | 6.1 J | 5 J | 10 U |
| Vanadium | 36.7 j | 21.1 Ј | 33.5 J | 46.3 J | 27.7 Ј |
| Zinc | 30.7 | 20 | 52.6 | 12.9 Ј | 40.5 |
| WET CHEMISTRY (mg/L) | | | | | |
| Total Dissolved Solids | 590 | 58 | 560 | 1200 | 170 |
| Total Suspended Solids | 4 U | 4 U | 80 | 6 | 8 |

SURFACE WATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

| SAMPLE ID | IR41-DD-SW01-98A | IR41-DD-SW02-98A | IR41-TC-SW10-98A | IR41-TC-SW11-98A | IR41-TC-SW12-98A | IR41-UT-SW01-98A | IR41-UT-SW02-98A | IR41-UT-SW03-98A |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| DATE SAMPLED | 02-09-1998 | 02-09-1998 | 02-11-1998 | 02-11-1998 | 02-11-1998 | 02-10-1998 | 02-11-1998 | 02-11-1998 |
| VOLATILES (ug/L) | | | | | | | | |
| 1,1,1-Trichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 U | 5 U | . 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U - |
| 1,2-Dichloroethene (total) | 5 U | 5 U | , 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 5 U | 5 U | 5 U | 5 U | 5 U | . 5 U | 5 U | 5 U |
| 2-Butanone | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 2 0 U |
| 2-Hexanone | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| 4-Methyl-2-pentanone | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| Acetone | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U | 20 U |
| Benzene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromodichloromethane | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromomethane | 10 U |
| Carbon disulfide | 5 U | 5 U | 5 U | 5 U | . 5 U | 5 U | 5 U | 5 U |
| Carbon tetrachloride | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 0.82 J | 5 U. | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroethane | 10 U | 10 U | 10 U |
| Chloroform | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloromethane | 10 U |
| Dibromochloromethane | 5 U | , 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 U | ' 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Methylene chloride | 1.4 JB | 1.5 JB | 1.4 JB | 1.6 JB | 1.5 JB | 1.4 JB | 1.7 JB | 1.8 JB |
| Styrene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 Ü | . 5 U |
| Tetrachloroethene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | _ 5 U |
| Vinyl chloride | 10 U | · 10 U |
| Xylenes (total) | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |

SURFACE WATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA TOTAL METALS

| SAMPLE ID DATE SAMPLED | IR41-DD-SW01-98A 02-09-1998 | IR41-DD-SW02-98A 02-09-1998 | IR41-TC-SW10-98A 02-11-1998 | IR41-TC-SW11-98A 02-11-1998 | IR41-TC-8W12-98A 02-11-1998 | IR41-UT-SW01-98A 02-10-1998 | IR41-UT-SW02-98A 02-11-1998 | IR41-UT-SW03-98A 02-11-1998 |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| TOTAL METALS (ug/L) | | | | | | | | |
| Aluminum | 87.8 J | 88.7 J | 539 | 536 | 450 | 279 | 244 | 274 |
| Antimony | 60 U |
| Arsenic | 10 U | 10 U | 10 U | 3 Ј | 10 U | 10 U | 10 U | 10 U |
| Barium | 45.1 J | 63.2 J | 30.2 J | 29.6 Ј | 29.8 J | 24.8 J | 23.7 J | 23.5 Ј |
| Beryllium | 5 U | 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 | 5 U |
| Calcium | 66900 | 97900 | 17400 | 17900 | 17400 | 37900 | . 36800 | 35900 |
| Chromium | 10 U | 7 J | 10 U | 10 U | 10 U | 3.9 J | 3.4 Ј | 10 U |
| Cobalt | 50 U |
| Copper | 25 U | 6.7 J | 6.9 J | 4.1 J | 4.9 J | 4.7 Ј | 10 Ј | 9.4 J |
| Iron | 652 | 1330 | 1070 | 1030 | 969 | 564 | 731 | 713 |
| Lead | 3 U | 3 U | 3 U | 3 U | 1.2 J | 3 U | 3 U | 3 U |
| Magnesium | 6000 | 10400 | 1660 J | 1680 J | 1650 Ј | 1800 J | 2220 J | 2160 J |
| Manganese | 34 | 139 | 34.4 | 29.7 | 30.4 | 16 | 28.2 | 24.5 |
| Mercury | 0.035 J | 0.2 U | 0.097 J | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.05 J |
| Nickel | 40 U |
| Potassium | 3780 J | 7550 | 964 J | 5000 U | 1010 J | 1070 J | 704 J | 659 J |
| Selenium | , 5 U | 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 | 10 U |
| Sodium | 11600 | 17800 | 11700 | 11600 | 11600 | 16200 | 11400 | 11100 |
| Thallium | 10 U | , 10 U | 10 U | 3.8 Ј | 10 U | 10 U | 10 U | 5.1 J |
| Vanadium | 31.4 J | 33.2 J | 23 J | 23.6 Ј | 17.3 J | 27.2 Ј | 25.8 J | 25.4 J |
| Zinc | 16.2 Ј | 18.3 J | 49.1 | 20 | 39.7 | 26.4 | 33.2 | 26.4 |

41SW-I. SWI 5/13/9

SEDIMENT ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

| SAMPLE ID | IR41-DD-SD01-98A | IR41-DD-SD02-98A | IR41-TC-SD10-98A | IR41-TC-SD11-98A | IR41-TC-SD12-98A | IR41-UT-SD01-98A | IR41-UT-SD02-98A | IR41-UT-SD03-98A |
|----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| DATE SAMPLED | 02-09-1998 | 02-09-1998 | 02-11-1998 | 02-11-1998 | 02-11-1998 | 02-10-1998 | 02-11-1998 | 02-11-1998 |
| VOLATILES (ug/kg) | | | | | | | | |
| 1,1,1-Trichloroethane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,1,2,2-Tetrachloroethane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,1,2-Trichloroethane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6,4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,1-Dichloroethane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,1-Dichloroethene | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,2-Dichloroethane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,2-Dichloroethene (total) | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 1,2-Dichloropropane | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |
| 2-Butanone | 26 U | 16 J | 5.8 JB | 27 U | 25 U | | | 24 U |
| 2-Hexanone | 26 U | | 38 U | 27 U | | | | 24 U |
| 4-Methyl-2-pentanone | 26 U | 47 U | 38 U | 27 U | 25 U | 26 U | 25 U | 24 U |
| Acetone | 26 U | 41 J | 38 U | 27 U | | | | 24 U |
| Benzene | 6.5 U | | 9.5 U | 6.8 U | | | | 6.1 U |
| Bromodichloromethane | 6.5 U | 12 U | 9.5 U | 6.8 U | | | | |
| Bromoform | 6.5 U | | 9.5 U | 6.8 U | | | | |
| Bromomethane | 13 U | 24 U | 19 U | 14 U | | | | |
| Carbon disulfide | 6.5 U | | | | | | | |
| Carbon tetrachloride | 6.5 U | | | 6.8 U | | | | |
| Chlorobenzene | 6.5 U | | 9.5 U | 6.8 U | | | | |
| Chloroethane | 13 U | | | 14 U | | | | |
| Chloroform | 6.5 U | | 9.5 U | 6.8 U | | | | |
| Chloromethane | • 13 U | | 19 U | | | | | |
| Dibromochloromethane | 6.5 U | | | 6.8 U | | | | |
| Ethylbenzene | 6.5 U | | 9.5 U | | | | | |
| Methylene chloride | 2.8 Л | | | | | | 6.2 U | |
| Styrene | 6.5 U | | | | | | | |
| Tetrachloroethene | 6.5 U | | | | | | | |
| Toluene | 6.5 U | 12 U | 9.5 U | | | | | |
| Trichloroethene | 6.5 U | | | | | | | |
| Vinyl chloride | 13 U | | | 14 U | | | | |
| Xylenes (total) | 6.5 U | | | | | | | |
| cis-1,3-Dichloropropene | 6.5 U | | 9.5 U | | | | | |
| trans-1,3-Dichloropropene | 6.5 U | 12 U | 9.5 U | 6.8 U | 6.4 U | 6.5 U | 6.2 U | 6.1 U |

SEDIMENT ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 41 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA TOTAL METALS

| SAMPLE ID DATE SAMPLED | IR41-DD-SD01-98A 02-09-1998 | IR41-DD-SD02-98A 02-09-1998 | IR41-TC-SD10-98A 02-11-1998 | IR41-TC-SD11-98A 02-11-1998 | IR41-TC-SD12-98A 02-11-1998 | IR41-UT-SD01-98A 02-10-1998 | IR41-UT-SD02-98A 02-11-1998 | IR41-UT-SD03-98A 02-11-1998 |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| TOTAL METALS (mg/kg) | | | | | | | | |
| Aluminum | 1270 | 9650 | 3850 | 800 | 1050 | 3780 | 341 | 275 |
| Antimony | 15.7 U | 28.4 U | 22.7 U | 16.3 U | 15.2 U | 15.6 U | . 14.9 U | 14.6 U |
| Arsenic | 2.6 U | 4.7 U | 3.8 U | 2.7 U | 2.5 U | 2.6 U | 2.5 U | 2.4 U |
| Barium | 5.9 J | 33.4 Ј | 24.3 J | 5.4 J | 7.7 J | 11.5 J | 1.6 J | 1.4 J |
| Beryllium | 1.3 U | 0.19 J | 1.9 U | 1.4 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| Cadmium | 1.3 U | 2.4 U | 1.9 U | 1.4 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| Calcium | 587 J | 2480 | 2220 | 266 Ј | 345 J | 36500 | 177 J | 135 J |
| Chromium | 3 | 84.4 | . 5 | 1.4 J | 2.1 J | 7.3 | 1.7 J | 1 J |
| Cobalt | 13.1 U | 3.7 J | 18.9 U | 13.6 U | 12.7 U | 13 U | 12.4 U | 12.1 U |
| Copper | 1.7 J | 39.7 | 2.5 J | 1.1 J | 0.89 J | 1.8 J | 1 J | 0.95 J |
| Iron | 2420 | 6400 | 2110 | 804 | 838 | 1960 | 447 | 206 |
| Lead | 4.4 | 16.6 | 17.6 | 1.8 | 2 | 9.5 | 0.54 J | 0.53 J |
| Magnesium | 52.9 J | 444 J | 186 J | 38.6 J | 46.5 J | 600 J | 22.4 J | 16.1 J |
| Manganese | 4.6 | 31 | 14.2 | 5.2 | 4.3 | 10.3 | 0.64 J | 0.71 J |
| Mercury | 0.04 J | 0.11 J | 0.09 J | 0.043 J | 0.035 J | 0.13 U | 0.035 J | 0.025 J |
| Nickel | 10.4 U | 41.7 | 15.1 U | 10.9 U | 10.2 U | 10.4 U | 9.9 U | 9.7 U |
| Potassium | 1310 U | 393 J | 1890 U | 1360 U | 1270 U | 1300 U | 1240 U | 1210 U |
| Selenium | 1.3 U | 2.4 U | 1.9 U | 1.4 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| Silver | . 2.6 U | 4.7 U | 3.8 U | 2.7 U | 2.5 U | 2.6 U | 2.5 U | 2.4 U |
| Sodium | 42.9 J | 108 J | 62.4 J | 32.7 J | 23.4 J | 128 J | 40.1 J | 15.4 J |
| Thallium | 1.1 J | 4.7 U | 3.8 U | 2.7 U | 2.5 U | 2.6 U | 2.5 U | 2.4 U |
| Vanadium | 3.7 J | 19.1 J | 8.2 J | 4.1 J | 3.6 Ј | 13.7 | 3.6 J | 3.4 J |
| Zinc | 23.4 | 62.6 | 16.6 | 10.5 | 10.8 | 16.2 | 6.1 | 6.4 |

5. () 1. ()

GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 4 - SITE 74 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA TOTAL METALS AND WET CHEMISTY

| SAMPLE ID | IR74-GW01-98A | IR74-GW02-98A | IR74-GW03A-98A | IR74-GW07-98A |
|------------------------|---------------|---------------|----------------|---------------|
| DATE SAMPLED | 01-22-1998 | 01-22-1998 | 01-22-1998 | 01-22-1998 |
| | | | | |
| TOTAL METALS (ug/L) | | | | |
| Aluminum | 838 | 796 | 3710 | 345 |
| Antimony | 60 U | 60 U | 60 U | 60 U |
| Arsenic | 10 U | 10 U | 10 U | 10 U |
| Barium | 48.7 B | 54.2 B | 58.9 B | 96.5 B |
| Beryllium | 5 U | ' 5 U | 5 U | . 5 U |
| Cadmium | 5 U | 5 U | 5 U | 5 U |
| Calcium | 984 B | 19200 | 290 B | 515 B |
| Chromium | 10 U | 10 U | 10 U | 10 U |
| Cobalt | 50 U | 50 U | 50 U | 50 U |
| Copper | 3.9 B | 25 U | 3.3 B | 7.4 B |
| Iron | 423 | 724 | 803 | 1840 |
| Lead | 3 U | 2.5 B | 2.5 B | 3 U |
| Magnesium | 1950 B | 1570 B | 565 B | 2310 B |
| Manganese | 5.3 B | 8.8 B | 6.1 B | 6.2 B |
| Mercury | 0.054 B | 0.05 B | 0.051 B | 0.048 B |
| Nickel | 40 U | 40 U | 40 U | 40 U |
| Potassium | 1070 B | 5000 U | 782 B | 1020 B |
| Selenium | 5 U | 5 U | 5 U | 5 U |
| Silver | 10 U | 10 U | 10 U | 10 U |
| Sodium | 11400 | 3100 B | 8700 | 8410 |
| Thallium | 10 U | 10 U | 3.4 B | 10 U |
| Vanadium | 10.6 B | 10.7 B | 13.6 B | 9.5 B |
| Zinc | 2.5 B | 6 B | 8.7 B | 6 B |
| WET CHEMISTRY (mg/L) | 1 | | | |
| Total Dissolved Solids | 37 | 92 | 60 | 61 |
| Total Suspended Solids | 15 | 4 U | 4 U | 4 U |

ATTACHMENT C ANALYTICAL LABORATORY DATA SHEETS

SITE 41

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) WATER Lab Sample ID:H8B110165 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Date Received: 02/11/98 Work Order: CFA8610R Date Extracted:02/18/98 Dilution factor: 1 Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-GW02-98A

CONCENTRATION UNITS:

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|------------|----------------------------|------------|--|
| 74-87-3 | Chloromethane | 10 | <u></u> |
| 74-83-9 | Bromomethane | 10 | <u></u> U |
| 75-01-4 | Vinyl chloride | 10 | <u>U</u> |
| 75-00-3 | Chloroethane | 10 | ן ט |
| 75-09-2 | Methylene chloride | 1.6 | J B |
| 67-64-1 | Acetone | 20 | ט |
| 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> </u> |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | <u>U</u> |
| 67-66-3 | Chloroform | 5.0 | <u>"</u> |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | ע |
| 78-93-3 | 2-Butanone | 20 | ע |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | ן די |
| 56-23-5 | Carbon tetrachloride | 5.0 | ן ט |
| 75-27-4 | Bromodichloromethane | 5.0 | ן ט |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | ט ו |
| 79-01-6 | Trichloroethene | 5.0 | ע |
| 124-48-1 | Dibromochloromethane | 5.0 | <u> </u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u> </u> |
| 71-43-2 | Benzene | 5.0 | ן ט |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u> </u> |
| 75-25-2 | Bromoform | 5.0 | ן - ט |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | UU |
| 591-78-6 | 2-Hexanone | 20 | ן ט |
| 127-18-4 | Tetrachloroethene | 5.0 | _ <u>U</u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | <u>"</u> |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8610R

Date Received: 02/11/98 Date Extracted:02/18/98

Dilution factor: 1

Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-GW02-98A

CONCENTRATION UNITS:

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

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-001

Date Sampled...: 02/10/98

Date Received..: 02/11/98

REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Prep Batch #...: 8055103 Mercury , 0.060 B 0.20 ICLP ILM03.0 02/24-02/25/98 CFA8610 ug/L Dilution Factor: 1 Prep Batch #...: 8055175 Aluminum 31.6 B 200 ICLP ILM03.0 ug/L 02/25-02/27/98 CFA8610 Dilution Factor: 1 Arsenic ND 10.0 ICLP ILM03.0 02/25-02/28/98 CFA8610 ug/L Dilution Factor: 1 Lead ND 3.0 ug/L ICLP ILM03.0 02/25-02/28/98 CFA8610 Dilution Factor: 1 Antimony ND 60.0 ICLP ILM03.0 02/25-02/27/98 CFA8610 ug/L Dilution Factor: 1 Barium 76.9 B 200 ICLP ILM03.0 02/25-02/27/98 CFA8610 ug/L Dilution Factor: 1 Selenium ND 5.0 ICLP ILM03.0 02/25-02/28/98 CFA8610 ug/L Dilution Factor: 1 Beryllium ND 5.0 ICLP ILM03.0 02/25-02/27/98 CFA8610 ug/L Dilution Factor: 1 Thallium 3.2 B 10.0 ug/L ICLP ILM03.0 02/25-02/28/98 CFA8610 Dilution Factor: 1 Cadmium ND 5.0 ug/L ICLP ILMO3.0 02/25-02/27/98 CFA8610 Dilution Factor: 1 Calcium 161000 5000 02/25-02/27/98 CFA8610 ug/L ICLP ILM03.0 Dilution Factor: 1 Chromium 6.6 B 10.0 ICLP ILM03.0 02/25-02/27/98 CFA8610 ug/L Dilution Factor: 1 Cobalt 50.0 ND ICLP ILM03.0 02/25-02/27/98 CFA8610 ug/L Dilution Factor: 1 02/25-02/27/98 CFA8610 Copper 15.1 B 25.0 ICLP ILM03.0 ug/L

(Continued on next page)

Dilution Factor: 1

Client Sample ID: IR41-GW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-001

Matrix..... WATER REPORTING PREPARATION-WORK ANALYSIS DATE ORDER # UNITS METHOD **PARAMETER** RESULT LIMIT 100 ICLP ILM03.0 02/25-02/27/98 CFA86101 Iron 33700 ug/L Dilution Factor: 1 Magnesium 5000 ug/L ICLP ILM03.0 02/25-02/27/98 CFA86100 23600 Dilution Factor: 1 Manganese 428 15.0 ICLP ILM03.0 02/25-02/27/98 CFA8610I ug/L Dilution Factor: 1 Nickel ND 40.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFA8610F Dilution Factor: 1 Potassium 16600 5000 ug/L ICLP ILM03.0 02/25-02/27/98 CFA8610I Dilution Factor: 1 Silver 10.0 ICLP ILM03.0 02/25-02/27/98 CFA86106 ND ug/L Dilution Factor: 1 Sodium 28600 5000 ICLP ILM03.0 02/25-02/27/98 CFA8610F ug/L Dilution Factor: 1 Vanadium 36.7 B 50.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFA8610J Dilution Factor: 1 20.0 Zinc 30.7 ICLP ILM03.0 02/25-02/27/98 CFA8610F ug/L Dilution Factor: 1

NOTE(S):

B Estimated result. Result is less than RL.

. Profesional trail

Client Sample ID: IR41-GW02-98A

General Chemistry

Lot-Sample #...: H8B110165-001 Work Order #...: CFA86

Matrix....: WATER

Date Sampled...: 02/10/98 08:00 Date Received..: 02/11/98

PREPARATION-

METHOD ANALYSIS DATE BATCH # PARAMETER RESULT UNITS 02/13-02/16/98 8044144 Total Dissolved MCAWW 160.1 Solids

Dilution Factor: 1

Total Suspended

4.0

ND

mg/L

MCAWW 160.2

02/13-02/16/98 8044141

Solids

Dilution Factor: 1

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8710R Dilution factor: 1 Date Received: 02/11/98 Date Extracted:02/18/98

Moisture %:NA

Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-GW10-98A

CONCENTRATION UNITS:

| CAS NO. | COMPOUND (ug/L or u | ig/kg) ug/L | <u>Q</u> |
|------------|----------------------------|-------------|--------------|
| 74-87-3 | Chloromethane | 10 | ן |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | <u>"</u> |
| 75-00-3 | Chloroethane | 10 | ט ו |
| 75-09-2 | Methylene chloride | 1.4 | ЈВ 📗 |
| 67-64-1 | Acetone | 20 | U |
| 75-15-0 | Carbon disulfide | 5.0 | <u>U</u> |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | ן <u>ט</u> ו |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | <u></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 | UU |
| 78-93-3 | 2-Butânone | 20 | <u>U</u> |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | <u> </u> |
| 56-23-5 | Carbon tetrachloride | 5.0 | ַ |
| 75-27-4 | Bromodichloromethane | 5.0 | <u></u> U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | ן |
| 79-01-6 | Trichloroethene | 5.0 | <u></u> |
| 124-48-1 | Dibromochloromethane | 15.0 | lul |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | ט |
| 71-43-2 | Benzene | 5.0 | <u> </u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | UU |
| 75-25-2 | Bromoform | 5.0 | <u> </u> |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | ַ |
| 591-78-6 | 2-Hexanone | 20 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | ַן |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | ט |

Lab Name: QUANTERRA SDG Number:

Matrix: (soil/water) WATER Lab Sample ID:H8B110165 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Date Received: 02/11/98
Work Order: CFA8710R Date Extracted:02/18/98
Dilution factor: 1 Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-GW10-98A

CONCENTRATION UNITS:

| _ | CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | 2 |
|---|-----------|-----------------|----------------------|----------|
| | 108-88-3 | Toluene | 5.0 | <u> </u> |
| | 108-90-7 | Chlorobenzene | 5.0 | ן ט |
| | 100-41-4 | Ethylbenzene | 5.0 | ן די |
| - | 100-42-5 | Styrene | 5.0 | U |
| - | 1330-20-7 | Xylenes (total) | 5.0 | ן די |

Client Sample ID: IR41-GW10-98A

TOTAL Metals

| Lot-Sample #: H8B110165-002 Date Sampled: 02/09/98 Date Received: 02/11/98 | | | | | | |
|--|-------------------|----------------------------|-------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | : 8055103 ND | 0.20 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/24-02/25/98 | CFA8710ς |
| Prep Batch # | : 8055175 1270 | 200 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA87101 |
| Arsenic | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8710I |
| Lead | ND . | 3.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA87101 |
| Antimony | ND | 60.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFP 72 |
| Barium | 20.7 в | 200 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA87103 |
| Selenium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8710N |
| Beryllium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA87104 |
| Thallium | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8710F |
| Cadmium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA87105 |
| Calcium | 3070 в | 5000 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA87106 |
| Chromium | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA87107 |
| Cobalt | ND | 50.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA87108 |
| Copper | 8.4 B | 25.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA87109 |

(Continued on next page)

Dilution Factor: 1

Client Sample ID: IR41-GW10-98A

TOTAL Metals

Lot-Sample #...: H8B110165-002

| rot-samble & | : H8B110 | 165-002 | | | Matrix | : WATEI |
|--------------|----------|--------------------------------|------------|--------------|----------------|---------------|
| PARAMETER | RESULT | REPORTING LIMIT | ; UNITS | METHOD | | WORK ORDER |
| Iron | 728 | 100 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | |
| | | Dilution Factor: 1 | | | • • • | |
| Magnesium | 802 B | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| | | Dilution Factor: 1 | | | | |
| Manganese | 7.2 B | 15.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| Nickel | ND | 40.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| Potassium | ND | 5000 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8710 |
| Silver | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871C |
| Sodium | 8240 | 5000 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| Vanadium | 21.1 В | 50.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| Zinc | 20.0 | 20.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA871(|
| NOTE (C) . | | | | | | |

B Estimated result. Result is less than RL.

Client Sample ID: IR41-GW10-98A

General Chemistry

Matrix....: WATER

Lot-Sample #...: H8B110165-002 Work Order #...: CFA87
Date Sampled...: 02/09/98 17:20 Date Received..: 02/11/98

| PARAMETER Total Dissolved | RESULT 58 | RL 10 | UNITS mg/L | METHOD MCAWW 160.1 | PREPARATION- ANALYSIS DATE 02/13-02/16/98 | PREP BATCH # 8044143 |
|---------------------------|-----------|-----------|------------|--------------------|---|----------------------------|
| Solids | Dilution | Factor: 1 | | | | |
| Total Suspended Solids | ND . | 4.0 | mg/L | MCAWW 160.2 | 02/13-02/16/98 | 8044141 |

Dilution Factor: 1

Client Sample ID: IR41-GW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-001 Matrix....: WATER

| | | REPORTING | | | PREPARATION- | WORK |
|---------------|-----------|--------------------|-------|-------------|----------------|----------|
| PARAMETER | RESULT | | ITS M | ETHOD | ANALYSIS DATE | ORDER # |
| Prep Batch #. | : 8055103 | | | | • | |
| Mercury | 0.049 B | 0.20 ug | /L I | CLP ILM03.0 | 02/24-02/25/98 | CFC1410(|
| | | Dilution Factor: 1 | L | | | |
| | | Analysis Time: 1 | 10:18 | | | |
| Prep Batch #. | : 8055175 | | | | | |
| Aluminum | ND | 200 ug | /L I | CLP ILM03.0 | 02/25-02/27/98 | CFC1410: |
| | | Dilution Factor: 1 | L | | | |
| | | Analysis Time: 1 | 18:30 | | | |
| Arsenic | 3.3 B | 10.0 ug | /L I | CLP ILM03.0 | 02/25-02/28/98 | CFC14101 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time: 2 | 20:44 | | | |
| Lead | 12.6 | | • | CLP ILM03.0 | 02/25-02/28/98 | CFC14101 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time: 2 | 20:44 | | | |
| Antimony | ND | 60.0 ug | /L I | CLP ILM03.0 | 02/25-02/27/98 | CFC1410: |
| | | Dilution Factor: | | | | |
| | | Analysis Time: | 18:30 | | | |
| Barium | 519 | 200 ug | - | CLP ILM03.0 | 02/25-02/27/98 | CFC1410: |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time: | 18:30 | | | |
| Selenium | ND | 5.0 ug | /L I | CLP ILM03.0 | 02/25-02/28/98 | CFC14101 |
| | | Dilution Factor: 3 | 1 | | | |
| | | Analysis Time: 2 | 20:44 | · • · = | | |
| Beryllium | ND | 5.0 ug | /L I | CLP ILM03.0 | 02/25-02/27/98 | CFC14104 |
| | | Dilution Factor: 3 | | | | |
| | | Analysis Time: | 18:30 | | | |
| Thallium | 6.1 B | 10.0 ug | /L I | CLP ILM03.0 | 02/25-02/28/98 | CFC14101 |
| | | Dilution Factor: | 1 | | | |
| | | Analysis Time: | 20:44 | | | |
| Cadmium | ND | 5.0 ug | /L I | CLP ILM03.0 | 02/25-02/27/98 | CFC1410 |
| | | Dilution Factor: | | | | |
| | | Analysis Time: | 18:30 | | | |
| Calcium | 116000 | _ | • | CLP ILM03.0 | 02/25-02/27/98 | CFC1410 |
| | | Dilution Factor: | | | | |
| | | Analysis Time: | 18:30 | | | |

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11-98A

TOTAL Metals

| # afame2-toI | H8B120170-001 | |
|--------------|---------------|--|
| | | |

| | | REPORTING | | PREPARATION- WORK |
|-----------|--------|------------------------------|---------------|-------------------------|
| PARAMETER | RESULT | LIMIT UNITS | METHOD | ANALYSIS DATE ORDER # |
| Chromium | 3.9 B | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC14107 |
| | | Dilution Factor: 1 | | |
| • | | Analysis Time: 18:30 | | |
| | | | | |
| Cobalt | 6.8 B | 50.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC14108 |
| | | Dilution Factor: 1 | | |
| | | Analysis Time: 18:30 | | |
| Copper | 10.8 B | 25.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC14109 |
| | | Dilution Factor: 1 | | , , , |
| | | Analysis Time: 18:30 | | |
| Iron | 39500 | 100 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410A |
| | 33300 | Dilution Factor: 1 | TCHE IM-05.0 | 02/23-02/27/98 CFCI4IUA |
| | | Analysis Time: 18:30 | | |
| | | • | | • |
| Magnesium | 23800 | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC? C |
| | | Dilution Factor: 1 | | |
| | | Analysis Time: 18:30 | | |
| Manganese | 332 | 15.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410D |
| | | Dilution Factor: 1 | | |
| | | Analysis Time: 18:30 | | |
| Nickel | 17.0 B | 40.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410E |
| | 27.0 2 | Dilution Factor: 1 | ICHE IMAGE. | 02/23-02/27/36 CFC1410B |
| | | Analysis Time: 18:30 | | |
| | - | | | |
| Potassium | 32300 | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410F |
| | | Dilution Factor: 1 | | |
| | | Analysis Time: 18:30 | | - |
| Silver | ND | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410G |
| | | Dilution Factor: 1 | | |
| | | Analysis Time: 18:30 | | |
| Sodium | 58300 | 5000 uq/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1410H |
| | 30300 | Dilution Factor: 1 | TCDI 111105.0 | 02/23-02/27/38 CFC1410H |
| | | Analysis Time: 18:30 | | |
| Vanadium | 22 = 5 | F0 0 /r | **** | 20.100.00.100.000 |
| vanautun | 33.5 B | 50.0 ug/L Dilution Factor: 1 | ICLP ILM03.0 | 02/25-02/27/98 CFC1410J |
| | | Analysis Time: 18:30 | • * | |
| | | .maryono ilme: 10:30 | | |

(Continued on next page)

Client Sample ID: IR41-GW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-001

Matrix..... WATER

 PARAMETER
 RESULT
 LIMIT
 UNITS
 METHOD
 ANALYSIS
 DATE
 ORDER #

 Zinc
 52.6
 20.0
 ug/L
 ICLP ILM03.0
 02/25-02/27/98
 CFC1410K

Dilution Factor: 1
Analysis Time..: 18:30

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: IR41-GW11-98A

General Chemistry

Lot-Sample #...: H8B120170-001 Work Order #...: CFC14 Matrix..... WATER

Date Sampled...: 02/11/98 08:30 Date Received..: 02/12/98

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Total Dissolved Solids
 560
 10
 mg/L
 MCAWW 160.1
 02/17-02/18/98
 8048165

Dilution Factor: 1

Total Suspended Solids 80

4.0 mg/L

MCAWW 160.2

02/18/98

8049222

Dilution Factor: 1

Lab Name: QUANTERRA SDG Number:

Matrix: (soil/water) WATER Lab Sample ID:H8B120170 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Date Received: 02/12/98
Work Order: CFC1420R Date Extracted:02/25/98
Dilution factor: 1 Date Analyzed: 02/25/98

Moisture %:NA

QC Batch: 8056143

Client Sample Id: IR41-GW11-98A -RE 1

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|------------|----------------------------|-------------|---|
| 74-87-3 | Chloromethane | 10 | |
| 74-83-9 | Bromomethane | _ 10 | <u></u> U |
| 75-01-4 | Vinyl chloride | 10 | <u></u> |
| 75-00-3 | Chloroethane | 10 | |
| 75-09-2 | Methylene chloride | 2.1 | J B |
| 67-64-1 | Acetone | 13 | J |
| 75-15-0 | Carbon disulfide | 5.0 | ע |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | <u> </u> |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | ַ |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | ַ |
| 67-66-3 | Chloroform | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | ן |
| 78-93-3 | 2-Butanone | 20 | <u> </u> |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | ן ט י די ד |
| 56-23-5 | Carbon tetrachloride | 5.0 | |
| 75-27-4 | Bromodichloromethane | 5.0 | <u> </u> |
| 78-87-5 | 1,2-Dichloropropane | | ש |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ |
| 79-01-6 | Trichloroethene | 5.0 | <u></u> |
| 124-48-1 | Dibromochloromethane | 5.0 | <u> </u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | ַ ַ |
| 71-43-2 | Benzene | 2.6 | <u>J</u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | ן <u>ט</u> |
| 75-25-2 | Bromoform | 5.0 | <u></u> U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | <u></u> U |
| 591-78-6 | 2-Hexanone | 20 | l <u>U</u> |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | <u> 5.0</u> | <u></u> |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 001

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1420R

Date Received: 02/12/98 Date Extracted: 02/25/98

Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:NA

QC Batch: 8056143

Client Sample Id: IR41-GW11-98A -RE 1

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q | |
|-----------|-----------------|----------------------|---|----------|
| 108-88-3 | Toluene | 5.0 | | ַ ט |
| 108-90-7 | Chlorobenzene | 1.1 | J | |
| 100-41-4 | Ethylbenzene | 5.0 | _ | U |
| 100-42-5 | Styrene | 5.0 | | <u>ט</u> |
| 1330-20-7 | Xylenes (total) | 5.0 | | ַ |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1610R Dilution factor: 1

Date Received: 02/12/98 Date Extracted:02/24/98 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-GW11DW-98A

| CAS NO. | COMPOUND (ug/L or u | ıg/kg) ug/L | Q |
|------------|----------------------------|-------------|--|
| 74-87-3 | Chloromethane | 10 | ע |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | ע |
| 75-09-2 | Methylene chloride | 2.0 | J B |
| 67-64-1 | Acetone | 20 | ן |
| 75-15-0 | Carbon disulfide | 5.0 | ַןו |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | <u> </u> |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | ן ט |
| 540-59-0 | 1,2-Dichloroethene (total) | 0.98 | J] |
| 67-66-3 | Chloroform | 5.0 | ַ |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | ט |
| 78-93-3 | 2-Butanone | 20 | ט |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | <u></u> |
| 56-23-5 | Carbon tetrachloride | 5.0 | <u>"</u> |
| 75-27-4 | Bromodichloromethane | 5.0 | <u> </u> |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u> </u> |
| 79-01-6 | Trichloroethene | 5.0 | <u></u> U |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | |
| 71-43-2 | Benzene | 1.1 | <u>J</u> _ |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u> </u> |
| 75-25-2 | Bromoform | 5.0 | <u> </u> |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | |
| 591-78-6 | 2-Hexanone | 20 | ן די |
| 127-18-4 | Tetrachloroethene | | ע |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | <u></u> |
| | | | |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 002

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1610R Date Received: 02/12/98 Date Extracted:02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-GW11DW-98A

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

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002 Matrix....: WATER

| Date Sampled | .: 02/11/98 | Date R | eceived | : 02/12/ | 98 | | |
|-------------------------|-----------------------|--|---------------|----------|---------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHO | סס | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | .: 8055103 0.081 B | 0.20 Dilution Facto Analysis Time. | | ICLP | ILM03.0 | 02/24-02/25/98 | CFC1610Q |
| Prep Batch # | .: 8055175 | | | | | | |
| Aluminum | ND | 200 Dilution Factor Analysis Time | | ICLP | ILM03.0 | 02/25-02/27/98 | CFC16101 |
| Arsenic | ND | 10.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/28/98 | CFC1610L |
| Lead | ND | 3.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/28/98 | CFC1610M |
| Antimony | ND | 60.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/27/98 | CFC16102 |
| Barium | 50.9 B | 200 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/27/98 | CFC16103 |
| Selenium | ND | 5.0 Dilution Facto Analysis Time. | | ICLP | ILM03.0 | 02/25-02/28/98 | CFC1610N |
| Beryllium | ND | 5.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/27/98 | CFC16104 |
| Thallium | 5.0 B | 10.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/28/98 | CFC16101 |
| Cadmium | ND | 5.0 Dilution Facto Analysis Time | | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1610! |
| Calcium | 254000 | 5000 Dilution Factor | ug/L or: 1 | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1610 |

Analysis Time..: 18:35

Matrix..... WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002

| | | REPORTING | } | | PREPARATION- | WORK |
|-----------|--------|----------------|---------|--------------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Chromium | 11.0 | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC16107 |
| | | Dilution Fact | | | | |
| | | Analysis Time | : 18:35 | | | |
| Cobalt | ND | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC16108 |
| | | Dilution Fact | or: 1 | | 1 | |
| | | Analysis Time | : 18:35 | | | ļ |
| Copper | ND | 25.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC16109 |
| | | Dilution Fact | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Iron | 3410 | 100 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610# |
| | | Dilution Fact | or: 1 | | • • • | |
| | • | Analysis Time | : 18:35 | | | |
| Magnesium | 7440 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC?~~oc |
| | | Dilution Fact | or: 1 | | | * * |
| | | Analysis Time | : 18:35 | | | |
| Manganese | 139 | 15.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610E |
| | | Dilution Facto | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610E |
| .e. | | Dilution Facto | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Potassium | 1600 B | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610F |
| | | Dilution Facto | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610G |
| | | Dilution Facto | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Sodium | 222000 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610H |
| | | Dilution Facto | or: 1 | | | |
| | | Analysis Time | : 18:35 | | | |
| Vanadium | 46.3 B | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1610J |
| | | Dilution Facto | | | | |
| | | Analysis Time | : 18:35 | • | | |

(Continued on next page)

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002

Matrix....: WATER

 REPORTING
 PREPARATION- WORK

 ARAMETER
 RESULT
 LIMIT
 UNITS
 METHOD
 ANALYSIS
 DATE
 ORDER #

 inc
 12.9 B
 20.0
 ug/L
 ICLP
 IIM03.0
 02/25-02/27/98
 CFC1610F

Dilution Factor: 1 Analysis Time..: 18:35

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: IR41-GW11DW-98A

General Chemistry

Lot-Sample #...: H8B120170-002 Work Order #...: CFC16 Matrix.....: WATER

Date Sampled...: 02/11/98 09:00 Date Received..: 02/12/98

PREPARATION-PREP ANALYSIS DATE BATCH # UNITS_ PARAMETER RESULT RLMETHOD Total Dissolved 1200 10 mg/L MCAWW 160.1 02/17-02/18/98 8048165 Solids Dilution Factor: 1 02/18/98 Total Suspended 6.0 4.0 mg/L MCAWW 160.2 8049222 Solids

Dilution Factor: 1

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) WATER Lab Sample ID:H8B120170 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Date Received: 02/12/98
Work Order: CFC1710R Date Extracted:02/24/98
Dilution factor: 1 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-GW12-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|------------|----------------------------|------------|--|
| 74-87-3 | Chloromethane | 10 | ן די |
| 74-83-9 | Bromomethane | 10 | ט |
| 75-01-4 | Vinyl chloride | _ 10 | <u> </u> |
| 75-00-3 | Chloroethane | 10 | ט |
| 75-09-2 | Methylene chloride | 2.3 | <u>J B</u> |
| 67-64-1 | Acetone | 20 | <u> </u> |
| 75-15-0 | Carbon disulfide | 5.0 | <u>U</u> |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | <u> </u> |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | <u></u> |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | <u>U</u> |
| 67-66-3 | Chloroform | 5.0 | <u></u> U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | <u></u> |
| 78-93-3 | 2-Butanone | 20 | ַ ַ ַ ַ ַ ַ |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | <u> </u> |
| 56-23-5 | Carbon tetrachloride | 5.0 | <u></u> |
| 75-27-4 | Bromodichloromethane | 5.0 | <u> </u> |
| 78-87-5 | 1,2-Dichloropropane | _ 5.0 | <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u> </u> |
| 79-01-6 | Trichloroethene | 5.0 | <u> </u> |
| 124-48-1 | Dibromochloromethane | 5.0 | <u> </u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u></u> |
| 71-43-2 | Benzene | 5.0 | <u></u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u></u> |
| 75-25-2 | Bromoform | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | <u> </u> |
| 591-78-6 | 2-Hexanone | 20 | <u> </u> |
| 127-18-4 | Tetrachloroethene | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | lu |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER Method: SW846 8260A

Lab Sample ID: H8B120170 003

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1710R Date Received: 02/12/98 Date Extracted: 02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-GW12-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q |
|-----------|-----------------|----------------------|-------------------|
| 108-88-3 | Toluene | 5.0 | <u> U</u> |
| 108-90-7 | Chlorobenzene | 5.0 | _ U |
| 100-41-4 | Ethylbenzene | 5.0 | ן |
| 100-42-5 | Styrene | 5.0 | _ |
| 1330-20-7 | Xylenes (total) | 5.0 | <u> </u> <u> </u> |

Client Sample ID: IR41-GW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-003

Matrix....: WATER Date Received..: 02/12/98 Date Sampled...: 02/11/98 PREPARATION-WORK REPORTING METHOD ANALYSIS DATE ORDER # LIMIT UNITS PARAMETER RESULT Prep Batch #...: 8055103 ICLP ILM03.0 02/24-02/25/98 CFC1710Q Mercury 0.035 B 0.20 ug/L Dilution Factor: 1 Analysis Time..: 10:23 Prep Batch #...: 8055175 200 ug/L ICLP ILM03.0 02/25-02/27/98 CFC17101 Aluminum ND Dilution Factor: 1 Analysis Time..: 18:40 ug/L ICLP ILM03.0 02/25-02/28/98 CFC1710I ND 10.0 Arsenic Dilution Factor: 1 Analysis Time..: 20:57 02/25-02/28/98 CFC1710N ICLP ILM03.0 Lead ND 3.0 ug/L Dilution Factor: 1 Analysis Time..: 20:57 02/25-02/27/98 CFC17102 ICLP ILM03.0 ug/L Antimony ND 60.0 Dilution Factor: 1 Analysis Time..: 18:40 ICLP ILM03.0 02/25-02/27/98 CFC17103 23.1 B 200 ug/L Barium Dilution Factor: 1 Analysis Time..: 18:40 02/25-02/28/98 CFC17101 ICLP ILM03.0 Selenium ND 5.0 ug/L Dilution Factor: 1 Analysis Time..: 20:57 ICLP ILM03.0 02/25-02/27/98 CFC17104 ug/L Beryllium ND 5.0 Dilution Factor: 1 Analysis Time..: 18:40 02/25-02/28/98 CFC17101 ICLP ILM03.0 10.0 ug/L Thallium ND Dilution Factor: 1 Analysis Time..: 20:57 ICLP ILM03.0 02/25-02/27/98 CFC1710! Cadmium ND 5.0 ug/L Dilution Factor: 1 Analysis Time..: 18:40 02/25-02/27/98 CFC1710 ICLP ILM03.0 Calcium 53700 5000 ug/L Dilution Factor: 1 Analysis Time..: 18:40

Client Sample ID: IR41-GW12-98A

TOTAL Metals

| Lot-Sample #: H8B120170-003 | Matrix WATER |
|-----------------------------|--------------|
|-----------------------------|--------------|

| | | REPORTING | | PREPARATION- | WORK |
|-----------|--------|----------------------|--------------|----------------|----------|
| PARAMETER | RESULT | LIMIT UNITS | METHOD | | ORDER # |
| Chromium | ND | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC17107 |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:40 | | | |
| Cobalt | 14.6 B | 50.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC17108 |
| | | Dilution Factor: 1 | | | ļ |
| | | Analysis Time: 18:40 | | | |
| Copper | 6.7 B | 25.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC17109 |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:40 | | | |
| Iron | 4910 | 100 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710A |
| | | Dilution Factor: 1 | | | ļ |
| | | Analysis Time: 18:40 | | | |
| Magnesium | 3070 В | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CEC1250C |
| | | Dilution Factor: 1 | | | ļ |
| | | Analysis Time: 18:40 | | | |
| Manganese | 110 | 15.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710E |
| | | Dilution Factor: 1 | | | İ |
| | | Analysis Time: 18:40 | | | |
| Nickel | ND | 40.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710E |
| e. | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:40 | | | |
| Potassium | ND | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710F |
| | | Dilution Factor: 1 | | x | |
| | | Analysis Time: 18:40 | | = | |
| Silver | ND | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710G |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:40 | | | |
| Sodium | 6560 | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710H |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:40 | | | |
| Vanadium | 27.7 B | 50.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1710J |
| | | Dilution Factor: 1 | . ' | | |
| | | Analysis Time: 18:40 | | | |
| | | | | | |

(Continued on next page)

Client Sample ID: IR41-GW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-003

Matrix....: WATER

| Zinc | 40.5 | 20.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | |
|-----------|--------|----------|-------|--------------|----------------|---------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| | | REPORTIN | IG | | PREPARATION- | WORK |

Dilution Factor: 1

Analysis Time..: 18:40

NOTE(S):

B Estimated result. Result is less than RL.

Client Sample ID: IR41-GW12-98A

General Chemistry

Lot-Sample #...: H8B120170-003 Work Order #...: CFC17
Date Sampled...: 02/11/98 11:00 Date Received..: 02/12/98 Matrix....: WATER

| PARAMETER Total Dissolved | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # | | |
|---------------------------|--------|-----|-------|-------------|-------------------------------|-----------------|--|--|
| Solids | 170 | 10 | mg/L | MCAWW 160.1 | 02/17-02/18/98 | 8048165 | | |
| Dilution Factor: 1 | | | | | | | | |
| Total Suspended Solids | 8.0 | 4.0 | mg/L | MCAWW 160.2 | 02/18/98 | 8049222 | | |

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-008

Date Sampled...: 02/09/98

Date Received..: 02/11/98 % Moisture....: 23

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------------------|-------------------|--|-------|--------------|-------------------------------|-----------------|
| Prep Batch #. Aluminum | : 8057103 1270 | 52.2 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8J10 |
| Arsenic | ND | Dilution Factor: 1 2.6 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/04/98 | CFA8J10: |
| Arsenic | ND | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8J20 |
| Lead | 4.4 | 0.78 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8J10: |
| Antimony | ND | 15.7 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8J10 |
| Barium | 5.9 B | 52.2 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10 |
| Selenium | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8J10 |
| Beryllium | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10 |
| Thallium | 1.1 B | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8J10 |
| Cadmium | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J102 |
| Calcium | 587 B | 1310 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10 |
| Chromium | 3.0 | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10i |
| Cobalt | ND | 13.1 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10I |
| Copper | 1.7 B | 6.5 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10 |

(Continued on next page)

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD01-98A

TOTAL Metals

| Lot-Sample | <i>‡</i> : | H8B110165-008 |
|------------|------------|---------------|
|------------|------------|---------------|

| | | | | | AMULANO O O O O O O | 50212 |
|---------------|-----------|----------------------------|--------------|---------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Iron | 2420 | 26.1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | |
| | | Dilution Factor: 1 | 3, 3 | | , | |
| Magnesium | 52.9 B | 1310 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J101 |
| | | Ditution ractor | | | | |
| Manganese | 4.6 | 3.9 Dijution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10 |
| Nickel | ND | 10.4 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8J10F |
| | ••- | Dilution Factor: 1 | | 2002 20110012 | 02/20 00/02/00 | 011100101 |
| Potassium | ND | 1310 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10I |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10N |
| | | Ditution ractor. | | • | | |
| Sodium | 42.9 B | 1310 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10N |
| Vanadium | 3.7 в | 13.1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10F |
| | | Dilution Factor: 1 | - | | • | |
| Zinc | 23.4 | 5.2 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8J10Q |
| Prep Batch #. | . 8057157 | Dilution Factor: 1 | | | | |
| Mercury | 0.040 B | 0.13 | mg/kg | ICLP ILM03.0 | 02/26-02/27/98 | CFA8J10R |
| | | Dilution Factor: 1 | | . • | - | |
| NOTE(S): | | | | | | |
| | | | | | | |

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-DD-SD01-98A

General Chemistry

Lot-Sample #...: H8B110165-008 Work Order #...: CFA8J Matrix.....: SOLID

Date Sampled...: 02/09/98 16:30 Date Received..: 02/11/98

% Moisture....: 23

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Moisture
 23.4
 0.10
 %
 MCAWW 160.3 MOD
 02/14-02/16/98
 8047208

Dilution Factor: 1

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B110165 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8J201 Dilution factor: 1 Date Received: 02/11/98
Date Extracted:02/20/98
Date Analyzed: 02/20/98

Moisture %:23

QC Batch: 8051224

Client Sample Id: IR41-DD-SD01-98A -RE 1

| CAS NO. | COMPOUND (ug/L or u | ıg/kg) ug/kg | Q |
|------------|----------------------------|--------------|-----------|
| 74-87-3 | Chloromethane | 13 | ט |
| 74-83-9 | Bromomethane | 13 | ט |
| 75-01-4 | Vinyl chloride | 13 | ָ <u></u> |
| 75-00-3 | Chloroethane | 13 | ט |
| 75-09-2 | Methylene chloride | 2.8 | ЈВ |
| 67-64-1 | Acetone | 26 | ט ו |
| 75-15-0 | Carbon disulfide | 6.5 | ט |
| 75-35-4 | 1,1-Dichloroethene | 6.5 | ן ט |
| 75-34-3 | 1,1-Dichloroethane | 6.5 | ט |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.5 | ן |
| 67-66-3 | Chloroform | 6.5 | ו |
| 107-06-2 | 1,2-Dichloroethane | 6.5 | ט |
| 78-93-3 | 2-Butanone | 26 | וט |
| 71-55-6 | 1,1,1-Trichloroethane | 6.5 | ַ ט |
| 56-23-5 | Carbon tetrachloride | 6.5 | ן |
| 75-27-4 | Bromodichloromethane | 6.5 | ן ט |
| 78-87-5 | 1,2-Dichloropropane | 6.5 | ן ט |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.5 | ן ט |
| 79-01-6 | Trichloroethene | 6.5 | <u></u> |
| 124-48-1 | Dibromochloromethane | 6.5 | ן ט |
| 79-00-5 | 1,1,2-Trichloroethane | 6.5 | ט |
| 71-43-2 | Benzene | 6.5 | ן ט ו |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.5 | ט |
| 75-25-2 | Bromoform | <u> 6.5</u> | U |
| 108-10-1 | 4-Methyl-2-pentanone | 26 | ט |
| 591-78-6 | 2-Hexanone | 26 | <u></u> |
| 127-18-4 | Tetrachloroethene | 6.5 | ט |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.5 | <u> </u> |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8J201 Date Received: 02/11/98 Date Extracted: 02/20/98

Dilution factor: 1

Date Analyzed: 02/20/98

Moisture %:23

QC Batch: 8051224

Client Sample Id: IR41-DD-SD01-98A -RE 1

| _ | CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q | |
|---|-----------|-----------------|-----------------------|-----|---------------|
| ١ | 108-88-3 | Toluene | 6.5 | _ _ | ַ ַ ַ ַ ַ |
| ĺ | 108-90-7 | Chlorobenzene | 6.5 | _ _ | ַ ַ |
| ĺ | 100-41-4 | Ethylbenzene | 6.5 | _ _ | ַ ַ ַ ַ |
| | 100-42-5 | Styrene | 6.5 | _ _ | ַ ַ ַ ַ ַ ַ ַ |
| Ì | 1330-20-7 | Xylenes (total) | 6.5 | | U |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8L101 Dilution factor: 1 Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

Moisture %:58

QC Batch: 8050195

Client Sample Id: IR41-DD-SD02-98A

| CAS NO. | COMPOUND (ug/L or ug | /kg) ug/kg | Q |
|------------|----------------------------|------------|--------------|
| 74-87-3 | Chloromethane | 24 | ן ט |
| 74-83-9 | Bromomethane | 24 | ט |
| 75-01-4 | Vinyl chloride | 24 | ַ |
| 75-00-3 | Chloroethane | 24 | ט |
| 75-09-2 | Methylene chloride | 9.2 | J |
| 67-64-1 | Acetone | 47 | <u>ט</u> |
| 75-15-0 | Carbon disulfide | 12 | יט |
| 75-35-4 | 1,1-Dichloroethene | 12 | ט |
| 75-34-3 | 1,1-Dichloroethane | 12 | ט |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | ט |
| 67-66-3 | Chloroform | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |
| 78-93-3 | 2-Butanone | 8.9 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 12 | ַ |
| 56-23-5 | Carbon tetrachloride | 12 | ן ט |
| 75-27-4 | Bromodichloromethane | 12 | Ū |
| 78-87-5 | 1,2-Dichloropropane | 12 | ן ט |
| 10061-01-5 | cis-1,3-Dichloropropene | 12 | ָּט |
| 79-01-6 | Trichloroethene | 12 | ָּע <u> </u> |
| 124-48-1 | Dibromochloromethane | 12 | וט |
| 79-00-5 | 1,1,2-Trichloroethane | 12 | U |
| 71-43-2 | Benzene | 12 | Ū |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | ט |
| 75-25-2 | Bromoform | 12 | ן די |
| 108-10-1 | 4-Methyl-2-pentanone | 47 | U |
| 591-78-6 | 2-Hexanone | 47 | U |
| 127-18-4 | Tetrachloroethene | 7.8 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12 | U |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8L101 Dilution factor: 1

Date Received: 02/11/98 Date Extracted:02/19/98 Date Analyzed: 02/19/98

Moisture %:58

QC Batch: 8050195

Client Sample Id: IR41-DD-SD02-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|-----------------|-----------------------|-----|
| 108-88-3 | Toluene | 12 | ן ט |
| 108-90-7 | Chlorobenzene | 12 | [ט |
| 100-41-4 | Ethylbenzene | 12 | U |
| 100-42-5 | Styrene | 12 | U |
| 1330-20-7 | Xylenes (total) | 12 | U |

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-009

Date Sampled...: 02/09/98

Date Received..: 02/11/98

| ŧ | Mod | ist | ure | | | : | 5 | 8 |
|---|-----|-----|-----|--|--|---|---|---|
| | | | | | | | | |

| | | REPORTING | | | DDDDADADAON | WORK |
|--------------|-----------|--------------------------------|-------|--------------|-------------------------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | ORDER # |
| Prep Batch # | • 8057103 | 1 | | • | • | |
| Aluminum | 9650 | 94.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10 |
| Arsenic | ND | 4.7 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8L10 |
| Lead | 16.6 | 1.4 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/04/98 | CFA8L10 |
| Antimony | ND | 28.4 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10 |
| Barium | 33.4 В | 94.6 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8L10 |
| Selenium | ND | 2.4 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8L10 |
| Beryllium | 0.19 В | 2.4 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8L10 |
| Thallium | ND | 4.7 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8L10 |
| Cadmium . | ND | 2.4 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10; |
| Calcium | 2480 | 2360 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10 |
| Chromium | 84.4 | 4.7 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10i |
| Cobalt | 3.7 В | 23.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L101 |
| Copper | 39.7 | 11.8 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L101 |
| Iron | 6400 | 47.3 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8L100 |

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-009

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|------------------|-----------|----------------------------|-------|--------------|-------------------------------|--------------|
| Magnesium | 444 B | 2360 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | |
| Hanganese | 31.0 | 7.1 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10 |
| Nickel | 41.7 | 18.9 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10 |
| Potassium | 393 в | 2360 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10I |
| Silver | ND | 4.7 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10M |
| Sodium | 108 в | 2360 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10N |
| Vanadium | 19.1 B | 23.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8L10E |
| Zinc | 62.6 | 9.5 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8L100 |
| Prep Batch #. | : 8057157 | , | | | | |
| Mercury | 0.11 B | 0.24 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-02/27/98 | CFA8L10R |
| NOTE(S): | | | | | | |

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

General Chemistry

Lot-Sample #...: H8B110165-009 Work Order #...: CFA8L

Date Sampled...: 02/09/98 17:40 Date Received..: 02/11/98

* Moisture....: 58

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Moisture
 57.7
 0.10
 *
 MCAWW 160.3 MOD
 02/14-02/16/98
 8047208

Dilution Factor: 1

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8L201 Dilution factor: 1

Date Received: 02/11/98 Date Extracted: 02/20/98

Date Analyzed: 02/20/98

Moisture %:58

QC Batch: 8051224

Client Sample Id: IR41-DD-SD02-98A -RE 1

| 74-87-3 Chloromethane 24 74-83-9 Bromomethane 24 75-01-4 Vinyl chloride 24 75-00-3 Chloroethane 24 75-09-2 Methylene chloride 8.2 J B 67-64-1 Acetone 41 J 75-15-0 Carbon disulfide 12 12 75-35-4 1,1-Dichloroethene 12 12 75-34-3 1,1-Dichloroethane 12 12 540-59-0 1,2-Dichloroethene (total) 12 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J 71-55-6 1,1,1-Trichloroethane 12 | <u>U</u> U |
|---|---------------|
| 75-01-4 Vinyl chloride 24 75-00-3 Chloroethane 24 75-09-2 Methylene chloride 8.2 J B 67-64-1 Acetone 41 J 75-15-0 Carbon disulfide 12 12 75-35-4 1,1-Dichloroethene 12 12 75-34-3 1,1-Dichloroethane 12 12 540-59-0 1,2-Dichloroethene (total) 12 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 107-06-2 1,2-Dichloroethane 12 J 78-93-3 2-Butanone 16 J | |
| 75-00-3 Chloroethane 24 75-09-2 Methylene chloride 8.2 J B 67-64-1 Acetone 41 J 75-15-0 Carbon disulfide 12 12 75-35-4 1,1-Dichloroethene 12 12 75-34-3 1,1-Dichloroethane 12 12 540-59-0 1,2-Dichloroethene (total) 12 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 107-06-2 1,2-Dichloroethane 12 J 78-93-3 2-Butanone 16 J | U |
| 75-09-2 Methylene chloride 8.2 J B 67-64-1 Acetone 41 J 75-15-0 Carbon disulfide 12 75-35-4 1,1-Dichloroethene 12 75-34-3 1,1-Dichloroethane 12 540-59-0 1,2-Dichloroethene (total) 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | |
| 67-64-1 Acetone 41 J 75-15-0 Carbon disulfide 12 75-35-4 1,1-Dichloroethene 12 75-34-3 1,1-Dichloroethane 12 540-59-0 1,2-Dichloroethene (total) 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | _U |
| 75-15-0 Carbon disulfide 12 75-35-4 1,1-Dichloroethene 12 75-34-3 1,1-Dichloroethane 12 540-59-0 1,2-Dichloroethene (total) 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | 1 |
| 75-35-4 1,1-Dichloroethene 12 75-34-3 1,1-Dichloroethane 12 540-59-0 1,2-Dichloroethene (total) 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | I |
| 75-34-3 1,1-Dichloroethane 12 540-59-0 1,2-Dichloroethene (total) 12 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | <u>ט</u> |
| 540-59-0 | U |
| 67-66-3 Chloroform 12 107-06-2 1,2-Dichloroethane 12 78-93-3 2-Butanone 16 J | U |
| 107-06-2 | U |
| 78-93-3 2-Butanone 16 J | U |
| | <u>U</u> |
| 71-55-6 1,1,1-Trichloroethane 12 | |
| I | U |
| 56-23-5 Carbon tetrachloride 12 | <u>U</u> |
| 75-27-4 Bromodichloromethane 12 | ַ |
| 78-87-5 1,2-Dichloropropane 12 | <u>U</u> |
| 10061-01-5 cis-1,3-Dichloropropene 12 | <u> </u> |
| 79-01-6 | <u>U</u> |
| 124-48-1 Dibromochloromethane 12 | <u>u</u> |
| 79-00-5 1,1,2-Trichloroethane 12 | U |
| 71-43-2 Benzene 12 | U |
| 10061-02-6 trans-1,3-Dichloropropene 12 | <u>U</u> |
| 75-25-2 Bromoform 12 | <u>U</u> |
| 108-10-1 4-Methyl-2-pentanone 47 | U |
| 591-78-6 2-Hexanone 47 | U |
| 127-18-4 Tetrachloroethene 12 | <u>U</u> |
| 79-34-5 1,1,2,2-Tetrachloroethane 12 | וט |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B110165 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8L201 Date Received: 02/11/98 Date Extracted: 02/20/98

Dilution factor: 1

Date Analyzed: 02/20/98

Moisture %:58

QC Batch: 8051224

Client Sample Id: IR41-DD-SD02-98A -RE 1

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|-----------------|-----------------------|-----|
| 108-88-3 | Toluene | 12 | וט |
| 108-90-7 | Chlorobenzene | 12 | ט |
| 100-41-4 | Ethylbenzene | 12 | ן ט |
| 100-42-5 | Styrene | 12 | ן ט |
| 1330-20-7 | Xylenes (total) | 12 | U |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 004

Method: SW846 8260A

5W040 8200A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8A10R Dilution factor: 1

Date Received: 02/11/98 Date Extracted:02/18/98 Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-DD-SW01-98A

| CAS NO. | COMPOUND (ug/L or u | ig/kg) ug/L | _ Q |
|-----------------|----------------------------|-------------|-------------|
| 74-87-3 | Chloromethane | 10 | וט |
| 74-83-9 | Bromomethane | 10 | ט |
| 75-01-4 | Vinyl chloride | 10 | ט |
| 75-00-3 | Chloroethane | 10 | ט |
| 75-09-2 | Methylene chloride | 1.4 | JВ |
| 67-64-1 | Acetone | 20 | ַ |
| 75-15-0 | Carbon disulfide | 5.0 | ט |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | ַ ַ |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | ט |
| <u>540-59-0</u> | 1,2-Dichloroethene (total) | 5.0 | ַ |
| 67-66-3 | Chloroform | 5.0 | ַ |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | ט |
| 78-93-3 | 2-Butanone | 20. | ט |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | <u>י</u> |
| 56-23-5 | Carbon tetrachloride | 5.0 | Ü |
| 75-27-4 | Bromodichloromethane | 5.0 | ט |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | ט |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u>.</u> |
| 79-01-6 | Trichloroethene | 5.0 | ַ |
| 124-48-1 | Dibromochloromethane | 5.0 | ט |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | ט |
| 71-43-2 | Benzene | 5.0 | บ |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | ַ ַ ַ ַ ַ ַ |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | |
| 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 |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B110165 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8A10R Date Received: 02/11/98 Date Extracted: 02/18/98

Dilution factor: 1

Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-DD-SW01-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | . Q . |
|-----------|-----------------|----------------------|--------------|
| 108-88-3 | Toluene | 5.0 | ן ו |
| 108-90-7 | Chlorobenzene | 0.82 | J |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | Ū |
| 1330-20-7 | Xylenes (total) | 5.0 | Ū |

Client Sample ID: IR41-DD-SW01-98A

TOTAL Metals

| Lot-Sample # Date Sampled | | | eceived: | 02/11/98 | Matrix: | WATER |
|---------------------------|--------------|-----------------------------------|----------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | 0.035 B | 0.20 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/24-02/25/98 | CPA8A10 |
| Prep Batch # | 87.8 B | . 200 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| Arsenic | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8A10I |
| Lead | ND | 3.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/28/98 | CFA8A10 |
| Antimony | ND | 60.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8A102 |
| Barium | 45.1 B | 200 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10: |
| Selenium | ND E | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8A101 |
| Beryllium | ND D | 5.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8A104 |
| Thallium | ND E | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8A10I |
| Cadmium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8A105 |
| Calcium | 66900 | 5000 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A106 |
| Chromium | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A107 |
| Cobalt | ND D | 50.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A108 |
| Copper | ND D | 25.0 Dilution Factor: 1 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8A109 |

(Continued on next page)

Matrix..... WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-004

| | | REPORTING | | **TRULOD | PREPARATION- | WORK |
|-----------|--------|--------------------|-------|--------------|----------------|---------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | |
| Iron | 652 | 100 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFASALU |
| | | Dilution Factor: 1 | | | • | |
| Magnesium | 6000 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | • | |
| Manganese | 34.0 | 15.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | ş | | | |
| Potassium | 3780 в | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| Sodium | 11600 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| Vanadium | 31.4 B | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| Zinc | 16.2 B | 20.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8A10 |
| | | Dilution Factor: 1 | | | | |
| NOTE(S): | | | 4 | | | |

B Estimated result. Result is less than RL.

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B110165 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8C10R Dilution factor: 1 Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-DD-SW02-98A

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

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8C10R Date Received: 02/11/98
Date Extracted:02/18/98

Dilution factor: 1

Date Analyzed: 02/18/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-DD-SW02-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q |
|-----------|-----------------|----------------------|------|
| 108-88-3 | Toluene | 5.0 | ן ט |
| 108-90-7 | Chlorobenzene | 5.0 | ן די |
| 100-41-4 | Ethylbenzene | 5.0 | Ū |
| 100-42-5 | Styrene | 5.0 | ן די |
| 1330-20-7 | Xylenes (total) | 5.0 | ט |

Client Sample ID: IR41-DD-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-005

Date Sampled...: 02/09/98

Date Received..: 02/11/98

Matrix....: WATER

| | | REPORTING | | | PREPARATION- | WORK |
|-----------------------|---------------------|----------------------------|-------|---------------|----------------|-----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Prep Batch # | | | | | | |
| Mercury | ND | 0.20 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/24-02/25/98 | CFA8C10(|
| | | | | | | |
| Prep Batch # Aluminum | : 8055175 88.7 B | 200 | /T | TOTAL TIMOS O | 00/05 00/05/00 | ann 0a10: |
| ALUMINUM | 66.7 B | Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFASC10. |
| Arsenic | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8C101 |
| | | Dilution Factor: 1 | | | | |
| Lead | ND | 3.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8C101 |
| Antimony | ND | 60.0 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CEYSCIU. |
| | | Dilution Factor: 1 | 49/2 | TODE TEMOS. | 02/23-02/27/98 | CFASCIO. |
| Barium | 63.2 B | 200 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8C101 |
| Beryllium | ND | 5.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/00 | GEN 9G10 |
| oct y a taum | ND | Dilution Factor: 1 | ug/1 | ICHP THMOS.U | 02/25-02/27/98 | CFASCIO |
| Thallium | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8C101 |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10! |
| Calcium | 07000 | | *- | | | |
| Calcium | 97900 | 5000 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| Chromium | 7.0 B | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Cobalt | ND | 50.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | . | | • | | | _ |
| Copper | 6.7 B | 25.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10! |

Matrix..... WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-005

| | | REPORTING | | | PREPARATION- | WORK |
|-----------|--------|--------------------|-------|--------------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Iron | 1330 | 100 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Magnesium | 10400 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Manganese | 139 | 15.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Potassium | 7550 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | 6.3 | Dilution Factor: 1 | | | | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Sodium | 17800 | 5000 | ug/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFA8C10 |
| | | Dilution Factor: 1 | | | | |
| Vanadium | 33.2 B | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10. |
| | | Dilution Factor: 1 | | | | |
| Zinc | 18.3 B | 20.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8C10 |
| * | | Dilution Factor: 1 | | | | |
| NOTE(S): | | | | | | |

B Estimated result. Result is less than RL.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B120170 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1J101 Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/25/98 Date Analyzed: 02/25/98

Moisture %:47

QC Batch: 8056106

Client Sample Id: IR41-TC-SD10-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/kg | Q |
|------------|----------------------------|-------------|---|
| 74-87-3 | Chloromethane | 19 | ן ש |
| 74-83-9 | Bromomethane | | ט |
| 75-01-4 | Vinyl chloride | _ 19 | <u> u</u> |
| 75-00-3 | Chloroethane | 19 | <u> U </u> |
| 75-09-2 | Methylene chloride | 9.5 | <u> </u> |
| 67-64-1 | Acetone | _ 38 | ן _ |
| 75-15-0 | Carbon disulfide | 9.5 | ן ש |
| 75-35-4 | 1,1-Dichloroethene | 9.5 | ע - ע |
| 75-34-3 | 1,1-Dichloroethane | _ 9.5 | _ <u></u> _ |
| 540-59-0 | 1,2-Dichloroethene (total) | 9.5 | ט |
| 67-66-3 | Chloroform | 9.5 | ט |
| 107-06-2 | 1,2-Dichloroethane | 9.5 | _ <u></u> |
| 78-93-3 | 2-Butanone | 5.8 | <u> JB</u> |
| 71-55-6 | 1,1,1-Trichloroethane | <u> 9.5</u> | <u>u</u> |
| 56-23-5 | Carbon tetrachloride | 9.5 | ן |
| 75-27-4 | Bromodichloromethane | 9.5 | ן |
| 78-87-5 | 1,2-Dichloropropane | 9.5 | ן |
| 10061-01-5 | cis-1,3-Dichloropropene | 9.5 | ן |
| 79-01-6 | Trichloroethene | 9.5 | _ll |
| 124-48-1 | Dibromochloromethane | 9.5 | _ <u></u> |
| 79-00-5 | 1,1,2-Trichloroethane | 9.5 | _ <u></u> |
| 71-43-2 | Benzene | 9.5 | ַ ט |
| 10061-02-6 | trans-1,3-Dichloropropene | 9.5 | _lu |
| 75-25-2 | Bromoform | 9.5 | ַ ט |
| 108-10-1 | 4-Methyl-2-pentanone | 38 | ַן |
| 591-78-6 | 2-Hexanone | 38 | U |
| 127-18-4 | Tetrachloroethene | 9.5 | _ U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.5 | _lu |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B120170 012

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g

Work Order: CFC1J101

Dilution factor: 1

Date Received: 02/12/98 Date Extracted:02/25/98 Date Analyzed: 02/25/98

Moisture %:47

QC Batch: 8056106

Client Sample Id: IR41-TC-SD10-98A

| - | CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q | |
|-----|-----------|-----------------|-----------------------|---|----------|
| - | 108-88-3 | Toluene | 9.5 | Ū | <i>,</i> |
| | 108-90-7 | Chlorobenzene | 9.5 | υ | Ϊį |
| -] | 100-41-4 | Ethylbenzene | 9.5 | U | ï |
| -1 | 100-42-5 | Styrene | 9.5 | Ü | ii |
| 1 | 1330-20-7 | Xylenes (total) | 9.5 | ט | ij |

Matrix....: SOLID

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-012

Date Sampled...: 02/11/98

Date Received..: 02/12/98

% Moisture....: 47

| | | REPORTING | <u>.</u> | | | PREPARATION- | WORK |
|--------------|-----------|---------------|----------|-------|---------|-----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | מכ | ANALYSIS DATE | ORDER # |
| | | | | : | | PARTETO ID DATE | ORDER # |
| Prep Batch # | : 8057103 | | | | | | |
| Aluminum | 3850 | 75.6 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J106 |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 18:36 | | | • | |
| Arsenic | ND | 3.8 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1J102 |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 16:40 | | | | |
| Lead | 17.6 | 1.1 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1J103 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 16:40 | | | | |
| Antimony | ND | 22.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J107 |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 18:36 | | | | |
| Barium | 24.3 B | 75.6 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J108 |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 18:36 | | | | |
| Selenium | ND | 1.9 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1J104 |
| * , | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 16:40 | | | | |
| Beryllium | . ND | 1.9 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J109 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 18:36 | | | | |
| Thallium | ND | 3.8 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1J105 |
| | | Dilution Fact | | | | | |
| • | | Analysis Time | : 16:40 | | | | |
| Cadmium | ND | 1.9 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J107 |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 18:36 | | | | |
| Calcium | 2220 | 1890 | mg/kg | ICLP | 11M03.0 | 02/26-03/02/98 | CFC1J100 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 18:36 | | • | | |
| Chromium | 5.0 | 3.8 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1J10I |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 18:36 | | | | |

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

| Lot-Sample #: H8B120170-012 | Matrix SOLID |
|-----------------------------|--------------|
|-----------------------------|--------------|

| | | REPORTING | | PREPARATION- | WORK |
|-----------|--------|----------------------|--------------|----------------|----------|
| PARAMETER | RESULT | LIMIT UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Cobalt | ND | 18.9 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10I |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Copper | 2.5 B | 9.5 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10I |
| | | Dilution Factor: 1 | | • | |
| | | Analysis Time: 18:36 | | | |
| Iron | 2110 | 37.8 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J100 |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Magnesium | 186 B | 1890 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10F |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Manganese | 14.2 | 5.7 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC?~~ot |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Nickel | ND | 15.1 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10F |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Potassium | ND | 1890 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10I |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Silver | ND | 3.8 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10M |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | * | |
| Sodium | 62.4 B | 1890 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10N |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Vanadium | 8.2 B | 18.9 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10F |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:36 | | | |
| Zinc | 16.6 | 7.6 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1J10Q |
| | | Dilution Factor: 1 | .* | | |
| | | Analysis Time: 18:36 | | | |
| | | | | | |

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

| Lot-Sample #: H8B120170-012 | | | | | Matrix SOLID | |
|-----------------------------|----------------------|---------------------|-------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch #. Mercury | : 8057157 0.090 B | 0.19 Dilution Facto | mg/kg | ICLP ILM03.0 | 02/26-02/27/98 | CFC1J10R |

Analysis Time..: 09:45

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-TC-SD10-98A

General Chemistry

Lot-Sample #...: H8B120170-012 Work Order #...: CFC1J Matrix.....: SOLID

Date Sampled...: 02/11/98 12:40 Date Received..: 02/12/98

* Moisture....: 47

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS
 DATE
 BATCH #

 Percent Moisture
 47.1
 0.10
 \$ MCAWW 160.3 MOD
 02/14-02/16/98
 8047211

Dilution Factor: 1

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B120170 013

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1K101 Date Received: 02/12/98 Date Extracted:02/25/98

Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:27

QC Batch: 8056106

Client Sample Id: IR41-TC-SD11-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/kg | Q |
|------------|----------------------------|-------------|---|
| 74-87-3 | Chloromethane | _ 14 | <u>ات ا</u> |
| 74-83-9 | Bromomethane | _ 14 | ט |
| 75-01-4 | Vinyl chloride | 14 | <u> </u> |
| 75-00-3 | Chloroethane | _ 14 | ן |
| 75-09-2 | Methylene chloride | 6.8 | <u> </u> |
| 67-64-1 | Acetone | 27 | ט _ |
| 75-15-0 | Carbon disulfide | 6.8 | _ <u> </u> |
| 75-35-4 | 1,1-Dichloroethene | 6.8 | _ <u></u> |
| 75-34-3 | 1,1-Dichloroethane | 6.8 | ַן |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.8 | _ <u> </u> |
| 67-66-3 | Chloroform | 6.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.8 | ַן |
| 78-93-3 | 2-Butanone | 27 | ן |
| 71-55-6 | 1,1,1-Trichloroethane | 6.8 | _ <u> </u> |
| 56-23-5 | Carbon tetrachloride | 6.8 | <u> U </u> |
| 75-27-4 | Bromodichloromethane | 6.8 | _ <u> </u> |
| 78-87-5 | 1,2-Dichloropropane | 6.8 | _ <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.8 | ןו_ |
| 79-01-6 | Trichloroethene | 6.8 | ן |
| 124-48-1 | Dibromochloromethane | 6.8 | _ <u></u> |
| 79-00-5 | 1,1,2-Trichloroethane | 6.8 | _ <u></u> |
| 71-43-2 | Benzene | <u> 6.8</u> | ا <u>ت</u> ا_ |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.8 | _ |
| 75-25-2 | Bromoform | 6.8 | ַ וַ |
| 108-10-1 | 4-Methyl-2-pentanone | 27 | ַן |
| 591-78-6 | 2-Hexanone | 27 | _ <u> </u> |
| 127-18-4 | Tetrachloroethene | 6.8 | _ U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.8 | ַן |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B120170 013

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g

Date Received: 02/12/98 Date Extracted: 02/25/98

Work Order: CFC1K101 Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:27

QC Batch: 8056106

Client Sample Id: IR41-TC-SD11-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|------------------|-----------------------|------------|
| 108-88-3 | Toluene | 6.8 | ע |
| 108-90-7 | Chlorobenzene | 6.8 | ן <u>ש</u> |
| 100-41-4 | Ethylbenzene | 6.8 | <u>U</u> |
| 100-42-5 | 100-42-5 Styrene | | ַ [|
| 1330-20-7 | Xylenes (total) | 6.8 | <u> </u> |

Jid carao carabba ibil

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-013 Matrix....: SOLID

Date Sampled...: 02/11/98 Date Received..: 02/12/98

% Moisture....: 27

| PARAMETER | RESULT | REPORTII LIMIT | NG UNITS | METHO | מס | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------|-----------|------------------------------|------------------|-------|---------|-------------------------------|-----------------|
| Prep Batch # | - 9057103 | | | | | | |
| Aluminum | 800 | 54.5 Dilution Fac | | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1K106 |
| | | Analysis Tir | me: 18:41 | | | | |
| Arsenic | ND | 2.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1K102 |
| | | Dilution Fac Analysis Tir | | | | | |
| Lead | 1.8 | 0.82 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1K103 |
| | | Dilution Fac Analysis Tir | | | | | |
| Antimony | ND | 16.3 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | GFC1K107 |
| | | Dilution Fac Analysis Tir | | | | | |
| Barium | 5.4 B | 54.5 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1K108 |
| | | Dilution Fac Analysis Tir | | | | | |
| Selenium | ND | 1.4 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | GFC1K104 |
| • . | | Dilution Fac Analysis Ti | | | | | |
| | | | | | | | |
| Beryllium | . ND | 1.4 Dilution Fac | mg/kg ctor: 1 | ICLP | ILM03.0 | 02/26-03/02/98 | 3 CFC1K109 |
| | | Analysis Ti | | | | | |
| Thallium | ND | 2.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/04/98 | CFC1K105 |
| | | Dilution Fac Analysis Ti | | | | | |
| Cadmium | ND | 1.4 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | G CFC1K10A |
| | | Dilution Fa | | | | | |
| Calcium | 266 B | 1360 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | 3 CFC1K10C |
| | | Dilution Fa | | | | | |
| Chromium | 1.4 B | 2.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/9 | 8 CFC1K10I |
| | | Dilution Fa Analysis Ti | | | | | |

Matrix..... SOLID

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

| Lot-Sample | # | . : | H8B120170-013 |
|------------|---|-----|---------------|
| | | | |

| | | REPORTING | | PREPARATION- | WORK |
|-----------|--------|----------------------|--------------|----------------|-----------|
| PARAMETER | RESULT | LIMIT UNITS | METHOD | ANALYSIS DATE | |
| Cobalt | ND | 13.6 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |
| Copper | 1.1 B | 6.8 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10F |
| | | Dilution Factor: 1 | | , | |
| | | Analysis Time: 18:41 | | | |
| Iron | 804 | 27.2 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10G |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |
| Magnesium | 38.6 B | 1360 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10H |
| | | Dilution Factor: 1 | | | ļ |
| | | Analysis Time: 18:41 | | | |
| Manganese | 5.2 | 4.1 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1 Proj |
| | | Dilution Factor: 1 | | | |
| | v | Analysis Time: 18:41 | | | |
| Nickel | ND | 10.9 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10K |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |
| Potassium | ND | 1360 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10L |
| at . | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | • | | |
| Silver | ND | 2.7 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10M |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | - | |
| Sodium | 32.7 B | 1360 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10N |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |
| Vanadium | 4.1 B | 13.6 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10P |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |
| Zinc | 10.5 | 5.4 mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1K10Q |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:41 | | | |

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

| Lot-Sample #: H8B120170-013 | | | | Matrix SOLID | | |
|-----------------------------|----------------------|--------------|-------------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTI | NG UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # | : 8057157 0.043 B | 0.14 | mg/kg | ICLP ILM03.0 | 02/26-02/27/98 | CFC1K10R |
| | | Dilution Fac | ctor: 1 | | | |
| NOTE(S): | | 1111 | | | | |

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-TC-SD11-98A

General Chemistry

Matrix..... SOLID

Lot-Sample #...: H8B120170-013 Work Order #...: CFC1K
Date Sampled...: 02/11/98 10:55 Date Received..: 02/12/98

*** Moisture....:** 27

PREPARATION-PREP UNITS METHOD PARAMETER RESULT RL ANALYSIS DATE BATCH # Percent Moisture 26.6 0.10 MCAWW 160.3 MOD 02/14-02/16/98 8047211

Dilution Factor: 1

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B120170 014

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1L101 Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/25/98 Date Analyzed: 02/25/98

Moisture %:21

QC Batch: 8056106

Client Sample Id: IR41-TC-SD12-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/kg | Q |
|------------|----------------------------|-------------|--|
| 74-87-3 | Chloromethane | 13 | _ <u> </u> |
| 74-83-9 | Bromomethane | _ 13 | ן |
| 75-01-4 | Vinyl chloride | 13 | <u> </u> |
| 75-00-3 | Chloroethane | | <u> </u> |
| 75-09-2 | Methylene chloride | 6.4 | _ <u> </u> |
| 67-64-1 | Acetone | 25 | _ <u></u> |
| 75-15-0 | Carbon disulfide | 6.4 | <u>"</u> |
| 75-35-4 | 1,1-Dichloroethene | 6.4 | _ |
| 75-34-3 | 1,1-Dichloroethane | 6.4 | ַ |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.4 | _ <u></u> |
| 67-66-3 | Chloroform | 6.4 | <u></u> |
| 107-06-2 | 1,2-Dichloroethane | 6.4 | _ |
| 78-93-3 | 2-Butanone | 25 | _ <u></u> |
| 71-55-6 | 1,1,1-Trichloroethane | 6.4 | _ <u> </u> |
| 56-23-5 | Carbon tetrachloride | 6.4 | _ <u></u> |
| 75-27-4 | Bromodichloromethane | 6.4 | _ <u> </u> |
| 78-87-5 | 1,2-Dichloropropane | 6.4 | _l <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.4 | _ <u> </u> |
| 79-01-6 | Trichloroethene | 6.4 | <u> </u> |
| 124-48-1 | Dibromochloromethane | 6.4 | _ |
| 79-00-5 | 1,1,2-Trichloroethane | 6.4 | _ <u></u> |
| 71-43-2 | Benzene | 6.4 | _ <u></u> u |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.4 | <u></u> |
| 75-25-2 | Bromoform | 6.4 | <u> </u> |
| 108-10-1 | 4-Methyl-2-pentanone | 25 | <u></u> |
| 591-78-6 | 2-Hexanone | 25 | |
| 127-18-4 | Tetrachloroethene | 6.4 | <u>U</u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.4 | <u> </u> |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B120170 014

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1L101

Date Received: 02/12/98 Date Extracted: 02/25/98

Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:21

QC Batch: 8056106

Client Sample Id: IR41-TC-SD12-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|-----------------|-----------------------|------|
| 108-88-3 | Toluene | 6.4 | التا |
| 108-90-7 | Chlorobenzene | 6.4 | U |
| 100-41-4 | Ethylbenzene | 6.4 | U |
| 100-42-5 | Styrene | 6.4 | U |
| 1330-20-7 | Xylenes (total) | 6.4 | וֹט |

Matrix..... SOLID

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-014

Date Sampled...: 02/11/98
% Moisture....: 21

Date Received..: 02/12/98

| | | REPORTING | 3 | | PREPARATION- WORK | |
|---------------|-----------|---------------|------------|------------|---------------------------|------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE ORDER # | <u> </u> |
| Prep Batch #. | - 8057103 | | | | | |
| Aluminum | 1050 | 50.8 | mg/kg | ICLP ILM03 | .0 02/26-03/02/98 CFC1L10 |)6 |
| | | Dilution Fact | | | | |
| | | Analysis Time | :: 18:56 | | · | |
| Arsenic | ND | 2.5 | mg/kg | ICLP ILM03 | .0 02/26-03/04/98 CFC1L10 |)2 |
| | | Dilution Fact | or: 1 | | | |
| | | Analysis Time | :: 16:53 | | | |
| Lead | 2.0 | 0.76 | mg/kg | ICLP ILM03 | .0 02/26-03/04/98 CFC1L10 |)3 |
| | | Dilution Fact | | | | |
| | | Analysis Time | 16:53 | | | |
| Antimony | ND | 15.2 | mg/kg | ICLP ILM03 | .0 02/26-03/02/98 CFC1L10 |)7 |
| | | Dilution Fact | or: 1 | | | |
| | | Analysis Time | 18:56 | | | |
| Barium | 7.7 B | 50.8 | mg/kg | ICLP ILM03 | .0 02/26-03/02/98 CFC1L10 | 80 |
| | | Dilution Fact | or: 1 | | | |
| | | Analysis Time | :: 18:56 | | | |
| Selenium | ND | 1.3 | mg/kg | ICLP ILM03 | .0 02/26-03/04/98 CFC1L10 |)4 |
| • , | | Dilution Fact | | | | |
| * | | Analysis Time | 16:53 | | | |
| Beryllium | . ND | 1.3 | mg/kg | ICLP ILM03 | .0 02/26-03/02/98 CFC1L10 | 25 |
| | | Dilution Fact | | | | |
| | | Analysis Time | 18:56 | | | |
| Thallium | ND | 2.5 | mg/kg | ICLP ILM03 | .0 02/26-03/04/98 CFC1L10 | 3.0 |
| | | Dilution Fact | | | | |
| | | Analysis Time | 16:53 | | | |
| Cadmium | ND | 1.3 | mg/kg | ICLP ILM03 | .0 02/26-03/02/98 CFC1L1 | 07 |
| | | Dilution Fact | | | | |
| | | Analysis Time | 18:56 | | | |
| Calcium | 345 B | 1270 | mg/kg | ICLP ILM03 | 02/26-03/02/98 CFC1L1 | D(|
| | | Dilution Fact | | | | |
| | | Analysis Time | ≥,.: 18:56 | | | |
| Chromium | 2.1 B | 2.5 | mg/kg | ICLP ILM03 | 02/26-03/02/98 CFC1L1 | O 1 |
| | | Dilution Fact | | | | |
| | | Analysis Time | 2: 18:56 | | | |

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

| Lot-Sample #: H8B120170-014 | Matrix: SOLID |
|-----------------------------|---------------|
|-----------------------------|---------------|

| | | REPORTING | | | | PREPARATION- | WORK |
|-----------|--------|-----------------|----------|-------|---------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | Œ | ANALYSIS DATE | ORDER # |
| Cobalt | ND | 12.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10F |
| | | Dilution Factor | r: 1 | | | | |
| | | Analysis Time. | .: 18:56 | | | | |
| Copper | 0.89 B | 6.4 | mg/kg | ICLP | TIMO3.0 | 02/26-03/02/98 | CFC1L10F |
| | | Dilution Factor | r: 1 | | | | |
| | | Analysis Time. | .: 18:56 | | | | |
| Iron | 838 | 25.4 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10G |
| | | Dilution Factor | r: 1 | | | | |
| | | Analysis Time. | .: 18:56 | | | | |
| Magnesium | 46.5 B | 1270 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10H |
| | | Dilution Factor | r: 1 | | | | |
| | • | Analysis Time. | .: 18:56 | | | | |
| Manganese | 4.3 | 3.8 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC? J |
| | | Dilution Factor | : 1 | | | | |
| | | Analysis Time. | .: 18:56 | | | | |
| Nickel | ND | 10.2 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10K |
| | | Dilution Factor | : 1 | | | | |
| | | Analysis Time. | .: 18:56 | | • | | |
| Potassium | ND | 1270 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10L |
| - | | Dilution Factor | :: 1 | | | | |
| | | Analysis Time. | : 18:56 | | | | |
| Silver | ND | 2.5 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10M |
| | | Dilution Factor | : 1 | | | | |
| | | Analysis Time. | : 18:56 | | | _ | |
| Sodium | 23.4 B | 1270 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10N |
| | | Dilution Factor | : 1 | | | | |
| | | Analysis Time. | : 18:56 | | | | |
| Vanadium | 3.6 B | 12.7 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10P |
| | | Dilution Factor | : 1, | | | | |
| | | Analysis Time. | : 19:56 | | | | |
| Zinc | 10.8 | 5.1 | mg/kg | ICLP | ILM03.0 | 02/26-03/02/98 | CFC1L10Q |
| | | Dilution Factor | 1. | | | | |
| | | Analysis Time | : 18:56 | | | | |
| | | | | | | | |

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

| Lot-Sample #: H8B120170-014 | | | | Matrix: SOLID | | |
|-----------------------------|---------|--------------------|----------------------|---------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | 0.035 B | 0.13 | mg/kg r: 1 | ICLP ILM03.0 | 02/26-02/27/98 | CFC1L10R |

Analysis Time..: 09:54

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-TC-SD12-98A

General Chemistry

Lot-Sample #...: H8B120170-014 Work Order #...: CFC1L
Date Sampled...: 02/11/98 12:30 Date Received..: 02/12/98 Matrix....: SOLID

*** Moisture....:** 21

PREPARATION-PREP RL PARAMETER RESULT METHOD ANALYSIS DATE BATCH # 0.10 Percent Moisture 21.3 MCAWW 160.3 MOD 02/14-02/16/98 8047211

Dilution Factor: 1

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1D10R Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/24/98

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW10-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|------------|----------------------------|-------------|------------|
| 74-87-3 | Chloromethane | _ 10 | lu |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl chloride | _ 10 | <u> </u> |
| 75-00-3 | Chloroethane | _ 10 | <u> </u> |
| 75-09-2 | Methylene chloride | 1.4 | <u>J B</u> |
| 67-64-1 | Acetone | 20 | <u></u> U |
| 75-15-0 | Carbon disulfide | 5.0 | <u>U</u> |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | ַ |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | lu |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | UU |
| 67-66-3 | Chloroform | 5.0 | <u> </u> |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | |
| 78-93-3 | 2-Butanone | 20 | <u></u> |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | lu |
| 56-23-5 | Carbon tetrachloride | 5.0 | <u></u> |
| 75-27-4 | Bromodichloromethane | 5.0 | <u></u> |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u>U</u> |
| 79-01-6 | Trichloroethene | <u> 5.0</u> | <u> </u> |
| 124-48-1 | Dibromochloromethane | 5.0 | <u>U</u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u>U</u> |
| 71-43-2 | Benzene | 5.0 | <u> </u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u>u</u> |
| 75-25-2 | Bromoform | | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | <u>U</u> |
| 591-78-6 | 2-Hexanone | 20 | <u>U</u> |
| 127-18-4 | Tetrachloroethene | 5.0 | <u> </u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | <u> </u> |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/12/98

Work Order: CFC1D10R

Date Extracted: 02/24/98 Date Analyzed: 02/24/98

Dilution factor: 1

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW10-98A

| CAS_NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q |
|-----------|-----------------|----------------------|----------|
| 108-88-3 | Toluene | 5.0 | וט |
| 108-90-7 | Chlorobenzene | 5.0 | ן ט |
| 100-41-4 | Ethylbenzene | 5.0 | Ū |
| 100-42-5 | Styrene | 5.0 | ט |
| 1330-20-7 | Xylenes (total) | 5.0 | <u>ט</u> |

Client Sample ID: IR41-TC-SW10-98A

| TOTAL Metals | | | | | | | |
|------------------------------|------------------------|---|--------------|---|--|--|--|
| Lot-Sample # Date Sampled | | -007 Date Received | : 02/12/98 | Matrix: WATER | | | |
| PARAMETER | RESULT | REPORTING LIMIT UNITS | METHOD | PREPARATION- WORK ANALYSIS DATE ORDER # | | | |
| Prep Batch # Mercury | .:: 8055103 0.097 B | 0.20 ug/L Dilution Factor: 1 Analysis Time: 10:39 | ICLP ILM03.0 | 02/24-02/25/98 CFC1D10Q | | | |
| Prep Batch # | .: 8055175 539 | 200 ug/L Dilution Factor: 1 Analysis Time: 19:06 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D101 | | | |
| Arsenic | ND | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:50 | ICLP ILM03.0 | 02/25-02/28/98 CFC1D10L | | | |
| Lead | ND | 3.0 ug/L Dilution Factor: 1 Analysis Time: 21:50 | ICLP ILM03.0 | 02/25-02/28/98 CFC1D10M | | | |
| Antimony | ND | 60.0 ug/L Dilution Factor: 1 Analysis Time: 19:06 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D102 | | | |
| Barium | 30.2 B | 200 ug/L Dilution Factor: 1 Analysis Time: 19:06 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D103 | | | |
| Selenium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 21:50 | ICLP ILM03.0 | 02/25-02/28/98 CFC1D101 | | | |
| Beryllium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 19:06 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D10 | | | |
| Thallium | ND | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:50 | ICLP ILM03.0 | 02/25-02/28/98 CFC1D10 | | | |
| Cadmium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 19:06 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D10 | | | |
| Calcium | 17400 | 5000 ug/L Dilution Factor: 1 | ICLP ILM03.0 | 02/25-02/27/98 CFC1D10 | | | |

Analysis Time..: 19:06

Matrix..... WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-007

| | | REPORTING | | | | PREPARATION- | WORK |
|-----------|--------|---------------|---------|-------|---------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | | ANALYSIS DATE | ORDER # |
| Chromium | ND | 10.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D107 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Cobalt | ND | 50.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D108 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Copper | 6.9 B | 25.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D109 |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Iron | 1070 | 100 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10A |
| | | Dilution Fact | | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Magnesium | 1660 B | 5000 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CECT CC |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | | * |
| Manganese | 34.4 | 15.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10D |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10E |
| e e | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Potassium | 964 B | 5000 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10F |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | _ | |
| Silver | ND : | 10.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10G |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Sodium | 11700 | 5000 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10H |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | | | |
| Vanadium | 23.0 B | 50.0 | ug/L | ICLP | ILM03.0 | 02/25-02/27/98 | CFC1D10J |
| | | Dilution Fact | or: 1 | | | | |
| | | Analysis Time | : 19:06 | | , | | |

in the finite of the

Client Sample ID: IR41-TC-SW10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-007

49.1

Matrix....: WATER

REPORTING RESULT

PREPARATION-WORK

PARAMETER Zinc

LIMIT 20.0

air and a

UNITS ug/L

METHOD ICLP ILM03.0 ANALYSIS DATE ORDER # 02/25-02/27/98 CFC1D10K

Dilution Factor: 1

Analysis Time..: 19:06

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/12/98

Work Order: CFC1E10R Dilution factor: 1

Date Extracted: 02/24/98 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW11-98A

| _ | CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|-----|------------|----------------------------|------------|----------|
| Ī | 74-87-3 | Chloromethane | 10 | U |
| - | 74-83-9 | Bromomethane | 10 | Ü |
| - | 75-01-4 | Vinyl chloride | 10 | U |
| 1 | 75-00-3 | Chloroethane | 10 | ן ט |
| Ì | 75-09-2 | 1.6 | Ј В | |
| | 67-64-1 | Acetone | 20 | ן ט |
| | 75-15-0 | Carbon disulfide | 5.0 | U |
| ١ | 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| | 75-34-3 | 1,1-Dichloroethane | 5.0 | ט |
| - 1 | 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | U |
| 1 | 67-66-3 | Chloroform | 5.0 | ט |
| - | 107-06-2 | 1,2-Dichloroethane | 5.0 | ט |
| | 78-93-3 | 2-Butanone | 20 | U |
| - 1 | 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 1 | 56-23-5 | Carbon tetrachloride | 5.0 | U |
| - | 75-27-4 | Bromodichloromethane | 5.0 | ַ |
| - 1 | 78-87-5 | 1,2-Dichloropropane | 5.0 | ן ט |
| - { | 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | ט |
| | 79-01-6 | Trichloroethene | 5.0_ | ן ט |
| - | 124-48-1 | Dibromochloromethane | 5.0 | ט |
| - | 79-00-5 | 1,1,2-Trichloroethane | 5.0 | ן די |
| - | 71-43-2 | Benzene | 5.0_ | U |
| - 1 | 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| - | 75-25-2 | Bromoform | 5.0 | ַ ָּט |
| 1 | 108-10-1 | 4-Methyl-2-pentanone | 20 | U |
| - 1 | 591-78-6 | 2-Hexanone | 20 | ט |
| ĺ | 127-18-4 | Tetrachloroethene | 5.0 | <u></u> |
| I | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |

dit to a first

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 008

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/12/98

Work Order: CFC1E10R

Date Extracted: 02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW11-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q |
|-----------|-----------------|----------------------|--|
| 108-88-3 | Toluene | 5.0 | <u> </u> |
| 108-90-7 | Chlorobenzene | 5.0 | _ <u></u> |
| 100-41-4 | Ethylbenzene | 5.0 | ן |
| 100-42-5 | Styrene | 5.0 | <u> </u> |
| 1330-20-7 | Xylenes (total) | 5.0 | <u>ات</u> اا |

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

| TOTAL Metals | | | | | | |
|--|-----------|---|--------------|---|--|--|
| Lot-Sample #: H8B120170-008 Date Sampled: 02/11/98 Date Received: 02/12/98 Matrix: WATE | | | | | | |
| PARAMETER | RESULT | REPORTING LIMIT UNITS | METHOD | PREPARATION- WORK ANALYSIS DATE ORDER # | | |
| Prep Batch # | : 8055103 | | | | | |
| Mercury | ND | 0.20 ug/L Dilution Factor: 1 Analysis Time: 10:42 | ICLP ILM03.0 | 02/24-02/25/98 CFC1E100 | | |
| Prep Batch # | : 8055175 | | | | | |
| Aluminum | 536 | 200 ug/L Dilution Factor: 1 Analysis Time: 19:11 | ICLP ILM03.0 | 02/25-02/27/98 CFC1E103 | | |
| Arsenic | 3.0 B | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:56 | ICLP ILM03.0 | 02/25-02/28/98 CFC1E10I | | |
| Lead | ND | 3.0 ug/L Dilution Factor: 1 Analysis Time: 21:56 | ICLP ILM03.0 | 02/25-02/28/98 CFC1F10N | | |
| Antimony | ND | 60.0 ug/L Dilution Factor: 1 Analysis Time: 19:11 | ICLP ILM03.0 | 02/25-02/27/98 CFC1E102 | | |
| Barium | 29.6 B | 200 ug/L Dilution Factor: 1 Analysis Time: 19:11 | ICLP ILM03.0 | 02/25-02/27/98 CFC1E103 | | |
| Selenium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 21:56 | ICLP ILM03.0 | 02/25-02/28/98 CFC1E10N | | |
| Beryllium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 19:11 | ICLP ILM03.0 | 02/25-02/27/98 CFC1E104 | | |
| Thallium | 3.8 B | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:56 | ICLP ILM03.0 | 02/25-02/28/98 CFC1R10H | | |
| Cadmium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 19:11 | ICLP ILM03.0 | 02/25-02/27/98 CFC1E105 | | |
| Calcium | 17900 | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 CFC1E106 | | |

Dilution Factor: 1 Analysis Time..: 19:11

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-008

| Lot-Sample #: H8B120170-008 | | | | Matrix: WATER | | |
|-----------------------------|--------|--------------|-----------|---------------|----------------|------------|
| | | REPORTI | vic. | | PREPARATION- | WORK |
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | |
| Chromium | ND ND | 10.0 | uq/L | ICLP ILM03.0 | 02/25-02/27/98 | |
| 5112 | | Dilution Fac | J. | | , , , | |
| | | Analysis Tir | me: 19:11 | | | |
| Cobalt | ND | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E108 |
| | | Dilution Fac | ctor: 1 | | • | |
| | | Analysis Tir | me: 19:11 | | | |
| Copper | 4.1 B | 25.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E109 |
| | | Dilution Fac | ctor: 1 | | | |
| | | Analysis Tir | me: 19:11 | | | |
| Iron | 1030 | 100 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10A |
| | | Dilution Fac | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Magnesium | 1680 B | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10C |
| | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Manganese | 29.7 | 15.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10D |
| | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10E |
| * | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Potassium | ND | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10F |
| | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10G |
| | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Sodium | 11600 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1E10E |
| | | Dilution Fa | ctor: 1 | | | |
| | | Analysis Ti | me: 19:11 | | | |
| Vanadium | 23.6 B | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/9 | B CFC1E10J |
| | | Dilution Fa | ctor: 1 | | | |
| | | | | | | |

(Continued on next page)

Analysis Time..: 19:11

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-008

Matrix..... WATER

REPORTING LIMIT

WORK PREPARATION-

PARAMETER

RESULT

UNITS ug/L

METHOD

ANALYSIS DATE ORDER # 02/25-02/27/98 CFC1E101

Zinc

20.0

20.0

ICLP ILM03.0

Dilution Factor: 1

Analysis Time..: 19:11

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1F10R Date Received: 02/12/98 Date Extracted:02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW12-98A

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

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 009

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/12/98

Work Order: CFC1F10R

Date Extracted:02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TC-SW12-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | 2 |
|-----------|-----------------|----------------------|-----|
| 108-88-3 | Toluene | 5.0 | ן ט |
| 108-90-7 | Chlorobenzene | 5.0 | וט |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | וט |
| 1330-20-7 | Xylenes (total) | 5.0 | ן ט |

 $|\vec{j}|\cdot \vec{j}| = (1+i)^2 \cdot 410$. So its distributions described as

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

| _ | : H8B120170 : 02/11/98 | | Received | : 02/12/98 | Matrix: | |
|-----------------------|---------------------------|------------------------------|----------------|---------------|-------------------------------|-----------------|
| - | | | | | | |
| PARAMETER | RESULT | REPORTIN LIMIT | IG UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| PARAMETER | RESOLI | DINI | 011115 | HILLIOD | ANADIOIO DAIL | ORDER # |
| Prep Batch # | | | • | | | |
| Mercury | ND | 0.20 | ug/L | ICLP ILM03.0 | 02/24-02/25/98 | CFC1F10 |
| | | Dilution Fac Analysis Tim | | | | |
| | | MIGLYSIS II. | 10 | | | |
| | 0055155 | | | | | |
| Prep Batch # Aluminum | 450 | 200 | uq/L | ICLP ILMO3.0 | 02/25-02/27/98 | CFC1F10 |
| | 130 | Dilution Fac | | | , | |
| | | Analysis Tim | ne: 19:16 | | | |
| Arsenic | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | GFC1F10 |
| Arbenie | N.D | Dilution Fac | | 2022 22770 | 02,20 02,20,0 | |
| | • | Analysis Tim | ne: 22:03 | | | |
| Lead | 1.2 B | 3.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | ያ ሮፑሮንፑንበ |
| Leau | 1.2 B | Dilution Fac | • | TCBF TH-105.0 | 02/23-02/20/5 | CECLETO |
| | | Analysis Tim | | | | |
| | | 60.0 | / * | TOLD TIMO2 A | 02/25 02/27/8 | o cecieio |
| Antimony | ND | 60.0 Dilution Fac | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CECIFIO |
| | | Analysis Tim | | | | |
| | | | <i>t-</i> | | 00/05 00/07/0 | |
| Barium | 29.8 B | 200 Dilution Fac | ug/L | ICLP ILM03.0 | 02/25-02/27/9 | 8 CFCIFIC |
| | | Analysis Tir | | | | |
| | | 12.02,000 | | | | |
| Selenium | ND | 5.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/9 | B CFC1F10 |
| | | Dilution Fac | | | | |
| | | Analysis Tir | ne: 22:03 | | | |
| Beryllium | ND | 5.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/9 | B CFC1F10 |
| | | Dilution Fac | | | | |
| | | Analysis Ti | me: 19:16 | | | |
| Thallium | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/28/9 | 8 CFC1F1 |
| | | Dilution Fac | - | | , | |
| | | Analysis Ti | me: 22:03 | | | |
| Cadmium | ND | 5.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/9 | 8 CFC1F10 |
| | | Dilution Fa | - ' | | | |
| | | Analysis Ti | me: 19:16 | · · | | |
| Calcium | 17400 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/9 | 8 CFC1F1(|
| | | Dilution Fa | _ | | , | |
| | | 31 | 10.10 | | | |

Analysis Time..: 19:16

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-009

Matrix....: WATER REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Chromium ND 10.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10 Dilution Factor: 1 Analysis Time..: 19:16 Cobalt ND 50.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F108 Dilution Factor: 1 Analysis Time..: 19:16 Copper 4.9 B 25.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F105 Dilution Factor: 1 Analysis Time..: 19:16 Iron 969 100 ICLP ILM03.0 ug/L 02/25-02/27/98 CFC1F10F Dilution Factor: 1 Analysis Time..: 19:16 Magnesium 1650 B 5000 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10C Dilution Factor: 1 Analysis Time..: 19:16 Manganese 30.4 15.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10D Dilution Factor: 1 Analysis Time..: 19:16 Nickel ND 40.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10E Dilution Factor: 1 Analysis Time..: 19:16 Potassium 1010 B 5000 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10F Dilution Factor: 1 Analysis Time..: 19:16 Silver ND 10.0 ICLP ILM03.0 02/25-02/27/98 CFC1F10G ug/L Dilution Factor: 1 Analysis Time..: 19:16 Sodium 11600 5000 ug/L ICLP ILM03.0 02/25-02/27/98 CFC1F10H Dilution Factor: 1 Analysis Time..: 19:16 Vanadium 17.3 B ug/L 02/25-02/27/98 CFC1F10J 50.0 ICLP ILM03.0 Dilution Factor: 1

(Continued on next page)

Analysis Time..: 19:16

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-009

Matrix..... WATER

PREPARATION-WORK REPORTING ANALYSIS DATE ORDER # LIMIT METHOD UNITS RESULT PARAMETER 02/25-02/27/98 CFC1F10K ug/L ICLP ILM03.0 20.0 39.7 Zinc Dilution Factor: 1

Analysis Time..: 19:16

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFA8G101 Dilution factor: 1

Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

Moisture %:23

QC Batch: 8050195

Client Sample Id: IR41-UT-SD01-98A

| CAS NO. | NO. COMPOUND (ug/L or ug/kg) ug/kg Q | | | | |
|------------|--------------------------------------|-----|-----------|--|--|
| 74-87-3 | Chloromethane | | ן ט | | |
| 74-83-9 | Bromomethane | 13 | U | | |
| 75-01-4 | Vinyl chloride | 13 | <u>ט</u> | | |
| 75-00-3 | Chloroethane | 13 | Ū | | |
| 75-09-2 | Methylene chloride | 4.5 | J | | |
| 67-64-1 | Acetone | 26 | U | | |
| 75-15-0 | Carbon disulfide | 6.5 | U | | |
| 75-35-4 | 1,1-Dichloroethene | 6.5 | ט | | |
| 75-34-3 | 1,1-Dichloroethane | 6.5 | ט ו | | |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.5 | ט | | |
| 67-66-3 | Chloroform | 6.5 | U | | |
| 107-06-2 | 1,2-Dichloroethane | 6.5 | וט | | |
| _78-93-3 | 2-Butanone | 26 | ט ו | | |
| 71-55-6 | 1,1,1-Trichloroethane | 6.5 | <u>ט</u> | | |
| 56-23-5 | Carbon tetrachloride | 6.5 | U | | |
| 75-27-4 | Bromodichloromethane | 6.5 | U | | |
| 78-87-5 | 1,2-Dichloropropane | 6.5 | Ū | | |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.5 | U | | |
| 79-01-6 | Trichloroethene | 6.5 | U | | |
| 124-48-1 | Dibromochloromethane | 6.5 | Ū | | |
| 79-00-5 | 1,1,2-Trichloroethane | 6.5 | ן ט | | |
| 71-43-2 | Benzene | 6.5 | U | | |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.5 | <u>ט</u> | | |
| 75-25-2 | Bromoform | 6.5 | ט | | |
| 108-10-1 | 4-Methyl-2-pentanone | 26 | ַ | | |
| 591-78-6 | 2-Hexanone | 26 | ט | | |
| 127-18-4 | Tetrachloroethene | 6.5 | U | | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.5 | ַ ַ ַ ַ ַ | | |
| | | | | | |

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Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B110165 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g

Date Received: 02/11/98 Date Extracted: 02/19/98

Work Order: CFA8G101 Dilution factor: 1

Date Analyzed: 02/19/98

Moisture %:23

QC Batch: 8050195

Client Sample Id: IR41-UT-SD01-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg (| 2 |
|-----------|-----------------|-------------------------|---|
| 108-88-3 | Toluene | 6.5 | <u> U </u> |
| 108-90-7 | Chlorobenzene | 6.5 | <u> U </u> |
| 100-41-4 | Ethylbenzene | 6.5 | <u> U</u> |
| 100-42-5 | Styrene | 6.5 | <u>u</u> |
| 1330-20-7 | Xylenes (total) | 6.5 | <u> u</u> |

Matrix....: SOLID

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-006

Date Sampled...: 02/10/98

Date Received..: 02/11/98

* Moisture....: 23

| 0 11022042201111 | 20 | | | | | • |
|------------------|---------------|----------------------------|-------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # | . = : 8057103 | 3 | | | | |
| Aluminum | 3780 | 51.9 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-03/02/98 | CFA8G1(|
| Arsenic | ND | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8G10 |
| Lead | 9.5 | 0.78 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8G10 |
| Antimony | ND | 15.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10 |
| Barium | 11.5 B | 51.9 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10 |
| Selenium | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8G10 |
| Beryllium | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10 |
| Thallium | ND | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFA8G10! |
| Cadmium . | ND | 1.3 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10; |
| Calcium | 36500 | 1300 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G100 |
| Chromium | 7.3 | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10E |
| Ćobalt | ND | 13.0 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10E |
| Copper | 1.8 B | 6.5 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10F |
| Iron | 1960 | 26.0 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10G |

Client Sample ID: IR41-UT-SD01-98A

TOTAL Metals

| Lot-Sample # | : н8в110 | 165-006 | | | Matrix | .: SOLID |
|------------------------|----------------|---------------------------------|-------------|---------------------|---|----------|
| PARAMETER Magnesium | RESULT 600 B | REPORTING LIMIT 1300 | UNITS mg/kg | METHOD ICLP ILM03.0 | PREPARATION- ANALYSIS DATE 02/26-03/02/98 | |
| 3 | | Dilution Factor: 1 | | | | |
| Manganese | 10.3 | 3.9 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10J |
| Nickel | ND | 10.4 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10K |
| Potassium | ND | 1300 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10L |
| Silver | ND | 2.6 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10M |
| Sodium | 128 B | 1300 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10N |
| Vanadium | 13.7 | 13.0 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10I |
| Zinc | 16.2 | 5.2 Dilution Factor: 1 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFA8G10(|
| Prep Batch # | : 805715 ND | 7 0.13 Dilution Factor: 1 | mg/kg | ICLP ILMO3.0 | 02/26-02/27/98 | CFA8G10I |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-UT-SD01-98A

General Chemistry

Lot-Sample #...: H8B110165-006 Work Order #...: CFA8G

Matrix....: SOLID

Date Sampled...: 02/10/98 08:15 Date Received..: 02/11/98

*** Moisture....:** 23

PREPARATION-PREP PARAMETER RESULT UNITS METHOD ANALYSIS DATE BATCH # Percent Moisture 23.0 0.10 MCAWW 160.3 MOD 02/14-02/16/98 8047208

Dilution Factor: 1

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B120170 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1G101 Date Received: 02/12/98 Date Extracted:02/25/98

Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:19

QC Batch: 8056106

Client Sample Id: IR41-UT-SD02-98A

| G1 G 170 | COMPOUND (ng/I, or n | g/kg) ug/kg | · O |
|------------|----------------------------|-------------|-------------|
| CAS NO. | COMPOUND (ug/L or u | 112 | וֹ טו |
| 74-87-3 | | 12 | ן ט |
| 74-83-9 | Bromomethane | _ 12 | ן ט |
| 75-01-4 | Vinyl chloride | ! | - <u>-</u> |
| 75-00-3 | Chloroethane | 12 | |
| 75-09-2 | Methylene chloride | 6.2 | _ |
| 67-64-1 | Acetone | _ 25 | _ |
| 75-15-0 | Carbon disulfide | 6.2 | <u></u> |
| 75-35-4 | 1,1-Dichloroethene | 6.2 | <u> </u> |
| 75-34-3 | 1,1-Dichloroethane | 6.2 | <u></u> |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.2 | lu |
| 67-66-3 | Chloroform | 6.2 | lu |
| 107-06-2 | 1,2-Dichloroethane | 6.2 | <u></u> |
| 78-93-3 | 2-Butanone | 25 | <u>u</u> |
| 71-55-6 | 1,1,1-Trichloroethane | 6.2 | U |
| 56-23-5 | Carbon tetrachloride | 6.2 | <u></u> |
| 75-27-4 | Bromodichloromethane | 6.2 | ע |
| 78-87-5 | 1,2-Dichloropropane | 6.2 | <u></u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.2 | lll |
| 79-01-6 | Trichloroethene | 6.2 | <u> </u> |
| 124-48-1 | Dibromochloromethane | 6.2 | lu |
| 79-00-5 | 1,1,2-Trichloroethane | 6.2 | <u></u> |
| 71-43-2 | Benzene | 6.2 | <u> </u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.2 | <u> </u> |
| 75-25-2 | Bromoform | 6.2 | <u> </u> |
| 108-10-1 | 4-Methyl-2-pentanone | 25 | <u>u</u> |
| 591-78-6 | 2-Hexanone | 25 | <u> </u> |
| 127-18-4 | Tetrachloroethene | 6.2 | <u> </u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.2 | lu |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B120170 010

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g

Work Order: CFC1G101

Date Received: 02/12/98 Date Extracted: 02/25/98

Dilution factor: 1

Date Analyzed: 02/25/98

Moisture %:19

QC Batch: 8056106

Client Sample Id: IR41-UT-SD02-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|-----------------|-----------------------|----------|
| 108-88-3 | Toluene | 6.2 | ן די |
| 108-90-7 | Chlorobenzene | 6.2 | U |
| 100-41-4 | Ethylbenzene | 6.2 | U |
| 100-42-5 | Styrene | 6.2 | U |
| 1330-20-7 | Xylenes (total) | 6.2 | <u>ט</u> |

Matrix....: SOLID

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010

Date Sampled...: 02/11/98

Date Received..: 02/12/98

% Moisture....: 19

| | | REPORTIN | G | | PREPARATION- | WORK |
|--------------|------------|--------------|-----------|--------------|------------------|------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| | | | | | | |
| Prep Batch # | .: 8057103 | | | | | |
| Aluminum | 341 | 49.6 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1G106 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:26 | | · | |
| Arsenic | ND | 2.5 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1G102 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 16:27 | | | |
| Lead | 0.54 B | 0.74 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1G103 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 16:27 | | | |
| Antimony | ND | 14.9 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1G107 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:26 | | | |
| Barium | 1.6 B | 49.6 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1G108 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:26 | | | |
| Selenium | ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1G104 |
| • , | | Dilution Fac | tor: 1 | | | |
| a. | | Analysis Tim | e: 16:27 | | | |
| Beryllium | , ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1G109 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:26 | | | |
| Thallium | ND | 2.5 | mg/kg | ICLP ILM03.0 | - 02/26-03/04/98 | CFC1G105 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 16:27 | | | |
| Cadmium | ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1G10A |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | ne: 18:26 | | | |
| Calcium | 177 B | 1240 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | B CFC1G10C |
| | | Dilution Fac | | | | |
| | | Analysis Tim | ne: 18:26 | | | |
| Chromium | 1.7 B | 2.5 | mg/kg | ICLP ILM03.0 | 02/26~03/02/9 | B CFC1G10I |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | ne: 18:26 | | | |

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010

Matrix..... SOLID REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Cobalt ND mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1G101 Dilution Factor: 1 Analysis Time..: 18:26 02/26-03/02/98 CFC1G101 Copper 1.0 B ICLP ILM03.0 6.2 mq/kq Dilution Factor: 1 Analysis Time..: 18:26 Iron 447 24.8 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1G100 Dilution Factor: 1 Analysis Time..: 18:26 Magnesium 22.4 B 1240 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1G10F Dilution Factor: 1 Analysis Time..: 18:26 Manganese 0.64 B 3.7 ICLP ILM03.0 02/26-03/02/98 CFC1 0J mg/kg Dilution Factor: 1 Analysis Time..: 18:26 Nickel ND 9.9 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1G10K Dilution Factor: 1 Analysis Time..: 18:26 Potassium 1240 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1G10L Dilution Factor: 1 Analysis Time..: 18:26 Silver ICLP ILM03.0 02/26-03/02/98 CFC1G10M ND 2.5 mg/kg Dilution Factor: 1 Analysis Time..: 18:26 Sodium 02/26-03/02/98 CFC1G10N mg/kg ICLP ILM03.0 40.1 B 1240 Dilution Factor: 1 Analysis Time..: 18:26 Vanadium 3.6 B ICLP ILM03.0 02/26-03/02/98 CFC1G10P 12.4 mq/kq Dilution Factor: 1 Analysis Time..: 18:26 Zinc 6.1 5.0 ICLP ILM03.0 02/26-03/02/98 CFC1G10Q mg/kg Dilution Factor: 1 Analysis Time..: 18:26

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010

Matrix....: SOLID

PARAMETER RESULT LIMIT UNITS METHOD PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 8057157

Mercury 0.035 B 0.12 mg/kg ICLP ILM03.0 02/26-02/27/98 CFC1G10R

Dilution Factor: 1

Analysis Time..: 09:40

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-UT-SD02-98A

General Chemistry

Lot-Sample #...: H8B120170-010 Work Order #...: CFC1G Matrix.....: SOLID

Date Sampled...: 02/11/98 09:05 Date Received..: 02/12/98

* Moisture....: 19

| | | | | | PREPARATION- | PREP |
|------------------|--------|------|-------|-----------------|----------------|---------|
| PARAMETER | RESULT | RL | UNITS | METHOD | ANALYSIS DATE | BATCH # |
| | | | | | . \ | |
| Percent Moisture | 19.3 | 0.10 | * | MCAWW 160.3 MOD | 02/14-02/16/98 | 8047211 |

Dilution Factor: 1

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B120170 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1H101 Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/25/98 Date Analyzed: 02/25/98

Moisture %:18

QC Batch: 8056106

Client Sample Id: IR41-UT-SD03-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/kg | Q |
|------------|----------------------------|---|---|
| 74-87-3 | Chloromethane | 12 | ע |
| 74-83-9 | Bromomethane | 12 | ט |
| 75-01-4 | Vinyl chloride | _ 12 | <u> u</u> |
| 75-00-3 | Chloroethane | _ 12 | <u> u</u> |
| 75-09-2 | Methylene chloride | 6.1 | <u> u</u> |
| 67-64-1 | Acetone | 24 | <u> u</u> |
| 75-15-0 | Carbon disulfide | 6.1 | <u> </u> |
| 75-35-4 | 1,1-Dichloroethene | <u> 6.1</u> | ן ש |
| 75-34-3 | 1,1-Dichloroethane | 6.1 | <u>ات</u> ا |
| 540-59-0 | 1,2-Dichloroethene (total) | 6.1 | <u> </u> |
| 67-66-3 | Chloroform | _ <u> 6.1</u> | <u> </u> |
| 107-06-2 | 1,2-Dichloroethane | 6.1 | <u> u</u> |
| 78-93-3 | 2-Butanone | 24 | <u>U</u> |
| 71-55-6 | 1,1,1-Trichloroethane | 6.1 | ע |
| 56-23-5 | Carbon tetrachloride | <u> 6.1 </u> | <u> u </u> |
| 75-27-4 | Bromodichloromethane | 6.1 | ן ט |
| 78-87-5 | 1,2-Dichloropropane | 6.1 | <u> </u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.1 | <u>U</u> |
| 79-01-6 | Trichloroethene | 6.1 | ע |
| 124-48-1 | Dibromochloromethane | 6.1 | <u>"</u> |
| 79-00-5 | 1,1,2-Trichloroethane | 6.1 | <u> U</u> |
| 71-43-2 | Benzene | 6.1 | <u> U </u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.1 | _ <u></u> |
| 75-25-2 | Bromoform | <u> 6.1</u> | _ <u> u</u> |
| 108-10-1 | 4-Methyl-2-pentanone | 24 | _ <u> </u> |
| 591-78-6 | 2-Hexanone | 24 | _ <u> </u> |
| 127-18-4 | Tetrachloroethene | 6.1 | _ <u>U</u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.1 | ַן |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: H8B120170 011

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g Work Order: CFC1H101 Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/25/98 Date Analyzed: 02/25/98

Moisture %:18

QC Batch: 8056106

Client Sample Id: IR41-UT-SD03-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/kg | Q |
|-----------|-----------------|-----------------------|-----|
| 108-88-3 | Toluene | 6.1 | ן ט |
| 108-90-7 | Chlorobenzene | 6.1 | יט |
| 100-41-4 | Ethylbenzene | 6.1 | ן ד |
| 100-42-5 | Styrene | 6.1 | ן ט |
| 1330-20-7 | Xylenes (total) | 6.1 | ט |

Matrix....: SOLID

BAKER ENVIRONMENTAL, INC.

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Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-011

Date Sampled...: 02/11/98

Date Received..: 02/12/98

% Moisture....: 18

| | REPORTING | | | | PREPARATION- | | |
|--------------|------------|---------------|-----------|---------------|------------------|-----------------|--|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | WORK ORDER # | |
| PARMIDIER | KESODI | | | | | 333333 | |
| Prep Batch # | .: 8057103 | | | | | | |
| Aluminum | 275 | 48.5 | mq/kq | ICLP ILM03.0 | 02/26-03/02/98 | CFC1H106 | |
| | | Dilution Fac | tor: 1 | | | | |
| _ | | Analysis Tim | e: 18:31 | | | | |
| Arsenic | ND · | 2.4 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1H102 | |
| Alsenic | ND . | Dilution Fac | | 1011 12403.0 | 02/20 03/01/30 | 01 0111102 | |
| | | Analysis Tim | | | | | |
| | | raidayoab 12m | 20.32 | | | | |
| Lead | 0.53 B | 0.73 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1H103 | |
| | | Dilution Fac | tor: 1 | | | | |
| | | Analysis Tim | e: 16:34 | | | | |
| Antimony | ND | 14.6 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1H107 | |
| | | Dilution Fac | | | | | |
| | | Analysis Tim | | | | | |
| | | - | | | | | |
| Barium | 1.4 B | 48.5 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1H108 | |
| | | Dilution Fac | tor: 1 | | | | |
| | | Analysis Tim | ne: 18:31 | | | | |
| Selenium | ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/04/98 | CFC1H104 | |
| Setentam | ND | Dilution Fac | | 1020 220.00.0 | 02,20 00,00,00 | | |
| | | Analysis Tim | | | | | |
| | | | | | | | |
| Beryllium | · ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1H109 | |
| | | Dilution Fac | tor: 1 | | | | |
| | | Analysis Tim | ne: 18:31 | | | | |
| Thallium | ND | 2.4 | mg/kg | ICLP ILM03.0 | - 02/26-03/04/98 | CFC1H105 | |
| marram | ND | Dilution Fac | | | ,,,, | | |
| | | Analysis Tir | | | | | |
| | | | | | | | |
| Cadmium | ND | 1.2 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | CFC1H10A | |
| | | Dilution Fac | ctor: 1 | | | | |
| | | Analysis Tir | ne: 18:31 | | | | |
| Calcium | 135 B | 1210 | mg/kg | ICLP ILM03.0 | 02/26-03/02/98 | 3 CFC1H10C | |
| -ua-va-uill | | Dilution Fac | | | • • | | |
| | | Analysis Ti | | | | | |
| | | - | | , | | | |
| Chromium | 1.0 B | 2.4 | mg/kg | ICLP ILM03.0 | 02/26-03/02/9 | B CFC1H10I | |
| | | Dilution Fa | ctor: 1 | | | | |
| | | Analysis Ti | me: 18:31 | | | | |

Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

| Lot-Sample # | | HPP120170-011 |
|--------------|-----|---------------|
| TOC-SAMDIC # | . : | HOBIZOI/O-OII |

Matrix..... SOLID REPORTING PREPARATION-WORK LIMIT RESULT PARAMETER UNITS METHOD ANALYSIS DATE ORDER # Cobalt ND ICLP ILM03.0 12.1 mg/kg 02/26-03/02/98 CFC1H101 Dilution Factor: 1 Analysis Time..: 18:31 Copper 0.95 B 6.1 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1H101 Dilution Factor: 1 Analysis Time..: 18:31 Magnesium 16.1 B 02/26-03/02/98 CFC1H10F 1210 mg/kg ICLP ILM03.0 Dilution Factor: 1 Analysis Time..: 18:31 Manganese 0.71 B 3.6 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1H10J Dilution Factor: 1 Analysis Time..: 18:31 Nickel ND9.7 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1 TO OK Dilution Factor: 1 Analysis Time..: 18:31 Potassium ND ICLP ILM03.0 1210 mg/kg 02/26-03/02/98 CFC1H10I Dilution Factor: 1 Analysis Time..: 18:31 Silver ND 2.4 mg/kg ICLP ILM03.0 02/26-03/02/98 CFC1H10M Dilution Factor: 1 Analysis Time..: 18:31 Sodium 15.4 B 1210 mq/kq ICLP ILM03.0 02/26-03/02/98 CFC1H10N Dilution Factor: 1 Analysis Time..: 18:31 Vanadium 3.4 B ICLP ILM03.0 02/26-03/02/98 CFC1H10P 12.1 mg/kg Dilution Factor: 1 Analysis Time..: 18:31 Zinc 6.4 4.9 ICLP ILM03.0 02/26-03/02/98 CFC1H10Q mg/kg Dilution Factor: 1 Analysis Time..: 18:31 Prep Batch #...: 8057157 Mercury 0.025 B 0.12 ICLP ILM03.0 02/26-02/27/98 CFC1H10R mg/kg Dilution Factor: 1 Analysis Time..: 09:42

Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-011

Matrix..... SOLID

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--------------------|-------------------------|--------------------|---------|--------------|-------------------------------|-----------------|
| Prep Batch # | : 8068107 206 | 24.3 | mg/kg | ICLP ILM03.0 | 03/09/98 | CFC1H20G |
| Dilution Factor: 1 | | | | | | |
| | | Analysis Time | : 17:58 | | | |
| NOTE (S) . | | | | | | |

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

Client Sample ID: IR41-UT-SD03-98A

General Chemistry

Lot-Sample #...: H8B120170-011 Work Order #...: CFC1H

Matrix....: SOLID

Date Sampled...: 02/11/98 08:45 Date Received..: 02/12/98

* Moisture....: 18

PREPARATION-ANALYSIS DATE BATCH # PARAMETER RESULT METHOD Percent Moisture 17.6 0.10 MCAWW 160.3 MOD 02/14-02/16/98 8047211

Dilution Factor: 1

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8810R Dilution factor: 1

Date Received: 02/11/98 Date Extracted: 02/18/98

Moisture %:NA

Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-UT-SW01-98A

| CAS NO. | COMPOUND (ug/L or u | ig/kg) ug/L | Q |
|------------|----------------------------|-------------|--|
| 74-87-3 | Chloromethane | 10 | ן די |
| 74-83-9 | Bromomethane | 10 | <u></u> |
| 75-01-4 | Vinyl chloride | 10 | <u></u> U |
| 75-00-3 | Chloroethane | 10 | <u></u> |
| 75-09-2 | Methylene chloride | 1.4 | JB |
| 67-64-1 | Acetone | 20 | <u></u> |
| 75-15-0 | Carbon disulfide | 5.0 | ן ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ ַ |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | <u> </u> |
| 75-34-3 | 1,1-Dichloroethane | | <u> </u> |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | <u></u> |
| 67-66-3 | Chloroform | 5.0 | ט |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | <u>"</u> |
| 78-93-3 | 2-Butanone | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | lu |
| 56-23-5 | Carbon tetrachloride | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u>U</u> |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 79-01-6 | Trichloroethene | 5.0 | <u>U</u> |
| 124-48-1 | Dibromochloromethane | 5.0 | <u>U</u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u>U</u> |
| 71-43-2 | Benzene | 5.0 | <u>U</u> |
| 10061-02-6 | trans-1,3-Dichloropropene | | l <u>U</u> |
| 75-25-2 | Bromoform | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | lu |
| 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 |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B110165 003

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Work Order: CFA8810R

Dilution factor: 1

Moisture %:NA

Date Received: 02/11/98

Date Extracted:02/18/98

Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-UT-SW01-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | 2 |
|-----------|-----------------|----------------------|-----|
| 108-88-3 | Toluene | 5.0 | ט ו |
| 108-90-7 | Chlorobenzene | 5.0 | Ū |
| 100-41-4 | Ethylbenzene | 5.0 | Ü |
| 100-42-5 | Styrene | 5.0 | Ū |
| 1330-20-7 | Xylenes (total) | 5.0 | ט |

Client Sample ID: IR41-UT-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-003 Matrix....: WATER

Date Sampled...: 02/10/98 Date Received..: 02/11/98

| Date Dampied 02/10/90 Date Received 02/11/70 | | | | | | |
|--|------------------|----------------------------|-------|--------------|-------------------------------|-----------------|
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | : 8055103 ND | 0.20 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/24-02/25/98 | CFA8810Ç |
| Prep Batch # | : 8055175 279 | 5 200 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA88101 |
| 111 (111) 111 | 273 | Dilution Factor: 1 | ug/ L | Tom Timos.v | 02/23 02/27/30 | CPAODIVI |
| Arsenic | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8810I |
| Lead | ND | 3.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA88101 |
| Antimony | ND | 60.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810: |
| Barium | 24.8 B | 200 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810: |
| Selenium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA88101 |
| Beryllium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |
| Thallium | ND | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/28/98 | CFA8810: |
| Cadmium | ND | 5.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |
| Calcium | 37900 | 5000 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |
| Chromium | 3.9 B | 10.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |
| Cobalt | ND | 50.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |
| Copper | 4.7 B | 25.0 Dilution Factor: 1 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFA8810 |

Client Sample ID: IR41-UT-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-003

Matrix..... WATE REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER 02/25-02/27/98 CFA8810 Iron 564 100 ug/L ICLP ILM03.0 Dilution Factor: 1 02/25-02/27/98 CFA8810 Magnesium 1800 B 5000 ug/L ICLP ILM03.0 Dilution Factor: 1 Manganese 16.0 15.0 ICLP ILM03.0 02/25-02/27/98 CFA8810 ug/L Dilution Factor: 1 Nickel ND 40.0 ICLP ILM03.0 ug/L 02/25-02/27/98 CFA8810 Dilution Factor: 1 Potassium 1070 B 5000 ICLP ILM03.0 02/25-02/27/98 CFA8810 ug/L Dilution Factor: 1 Silver ND 10.0 ICLP ILM03.0 02/25-02/27/98 CFA8810 ug/L Dilution Factor: 1 Sodium 16200 5000 ICLP ILM03.0 ug/L 02/25-02/27/98 CFA8810 Dilution Factor: 1 Vanadium 27.2 B 50.0 ug/L ICLP ILM03.0 02/25-02/27/98 CFA8810 Dilution Factor: 1 Zinc 26.4 20.0 uq/L ICLP ILM03.0 02/25-02/27/98 CFA8810 Dilution Factor: 1

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER Method: SW846 8260A

Lab Sample ID: H8B120170 005

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1A10R

Date Received: 02/12/98 Date Extracted: 02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-UT-SW02-98A

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

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 005

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Work Order: CFC1A10R

Dilution factor: 1

Moisture %:NA

Date Received: 02/12/98

Date Extracted: 02/24/98

Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-UT-SW02-98A

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

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005 Matrix....: WATER

| Date Sampled. | | Date Received. | .: 02/12/98 | MACLIA WAILK |
|--------------------------|-----------------|---|--------------|---|
| PARAMETER | RESULT | REPORTING LIMIT UNITS | METHOD | PREPARATION- WORK ANALYSIS DATE ORDER # |
| Prep Batch #. Mercury | : 8055103 ND | 0.20 ug/L Dilution Factor: 1 Analysis Time: 10:30 | ICLP ILM03.0 | 02/24-02/25/98 CFC1A100 |
| Prep Batch #. | : 8055175 | | | : |
| Aluminum | 244 | 200 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |
| Arsenic | ND | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:04 | ICLP ILM03.0 | 02/25-02/28/98 CFC1A10 |
| Lead . | ND | 3.0 ug/L Dilution Factor: 1 Analysis Time: 21:04 | ICLP ILM03.0 | 02/25-02/28/98 CFC1A10 |
| Antimony | ND | 60.0 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |
| Barium | 23.7 B | 200 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |
| Selenium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 21:04 | ICLP ILM03.0 | 02/25-02/28/98 CFC1A10 |
| Beryllium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |
| Thallium | ND | 10.0 ug/L Dilution Factor: 1 Analysis Time: 21:04 | ICLP ILM03.0 | 02/25-02/28/98 CFC1A10 |
| Cadmium | ND | 5.0 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |
| Calcium | 36800 | 5000 ug/L Dilution Factor: 1 Analysis Time: 18:45 | ICLP ILM03.0 | 02/25-02/27/98 CFC1A10 |

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005

| | | | | | • | |
|-----------|--------|--------------|-----------|--------------|----------------|----------|
| | | REPORTIN | IG . | | PREPARATION- | WORK |
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER # |
| Chromium | 3.4 B | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A107 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | ne: 18:45 | · | | |
| Cobalt | ND | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A108 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | ne: 18:45 | | | |
| Copper | 10.0 B | 25.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A109 |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | | | |
| Iron | 731 | 100 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10A |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | | | |
| Magnesium | 2220 B | 5000 | սց/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10C |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | ie: 18:45 | | | |
| Manganese | 28.2 | 15.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10D |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10E |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | | | |
| Potassium | 704 B | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10F |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | | _ | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10G |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e; 18:45 | | | |
| Sodium | 11400 | 5000 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10H |
| | | Dilution Fac | tor: 1 | | | · |
| | | Analysis Tim | e: 18:45 | | | |
| Vanadium | 25.8 B | 50.0 | ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1A10J |
| | | Dilution Fac | tor: 1 | | | |
| | | Analysis Tim | e: 18:45 | • | | |

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005

Matrix..... WATER

 PARAMETER
 RESULT
 LIMIT
 UNITS
 METHOD
 ANALYSIS
 DATE
 ORDER #

 Zinc
 33.2
 20.0
 ug/L
 ICLP 1LM03.0
 02/25-02/27/98
 CFC1A10K

Dilution Factor: 1
Analysis Time..: 18:45

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC1C10R Dilution factor: 1 Date Received: 02/12/98 Date Extracted:02/24/98 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-UT-SW03-98A

| CAS NO. | COMPOUND (ug/L or u | ıg/kg) ug/L | Q |
|------------|----------------------------|-------------|--|
| 74-87-3 | Chloromethane | 10 | ן |
| 74-83-9 | Bromomethane | 10 | ט |
| 75-01-4 | Vinyl chloride | 10 | ן די |
| 75-00-3 | Chloroethane | 10 | |
| 75-09-2 | Methylene chloride | 1.8 | J B |
| 67-64-1 | Acetone | 20 | ט |
| 75-15-0 | Carbon disulfide | 5.0 | ט |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | ט ט |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | ט |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | ן ט |
| 67-66-3 | Chloroform | 5.0 | ט |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | ט |
| 78-93-3 | 2-Butanone | 20 | <u> </u> |
| 71-55-6 | 1,1,1-Trichloroethane | <u> 5.0</u> | lu |
| 56-23-5 | Carbon tetrachloride | 5.0 | <u>U</u> |
| 75-27-4 | Bromodichloromethane | 5.0 | ן |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | ן די |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u> </u> |
| 79-01-6 | Trichloroethene | 5.0 | ן ט |
| 124-48-1 | Dibromochloromethane | 5.0 | ן ט |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | ן |
| 71-43-2 | Benzene | 5.0 | ן ט |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u></u> <u></u> <u></u> <u></u> |
| 75-25-2 | Bromoform | 5.0 | ַ |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | ן די די |
| 591-78-6 | 2-Hexanone | 20 | ט ו |
| 127-18-4 | Tetrachloroethene | 5.0 | ן די |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | טו |

Lab Name:QUANTERRA SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B120170 006

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL
Work Order: CFC1C10R
Dilution factor: 1

Date Received: 02/12/98 Date Extracted:02/24/98 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-UT-SW03-98A

| CAS NO. | COMPOUND | (ug/L or ug/kg) ug/L | Q |
|-----------|-----------------|----------------------|------------|
| 108-88-3 | Toluene | 5.0 | ן די |
| 108-90-7 | Chlorobenzene | 5.0 | ן די |
| 100-41-4 | Ethylbenzene | 5.0 | ן די די די |
| 100-42-5 | Styrene | 5.0 | ן ש |
| 1330-20-7 | Xylenes (total) | 5.0 | ן <u>ש</u> |

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

| TOTAL Metals | | | | | | |
|-----------------------------|------------------------|--|-------------|-----------|-------------------------------|-----------------|
| Lot-Sample #. Date Sampled. | | | ived: 02/12 | ?/98 | Matrix: | WATER |
| PARAMETER | RESULT | REPORTING UN | ITS METH | IOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | .:: 8055103 0.050 B | 0.20 ug Dilution Factor: 1 Analysis Time: 1 | L | ? ILM03.0 | 02/24-02/25/98 | CFC1C10(|
| Prep Batch # | : 8055175 | | | | | |
| Aluminum | 274 | 200 ug Dilution Factor: 1 Analysis Time: 1 | L | P ILM03.0 | 02/25-02/27/98 | CFC1C101 |
| Arsenic | ND | 10.0 ug, Dilution Factor: 1 Analysis Time: 2 | Ĺ | P ILM03.0 | 02/25-02/28/98 | CFC1C10I |
| Lead | ND | 3.0 ug, Dilution Factor: 1 Analysis Time: 2 | <u>.</u> | P ILMO3.0 | 02/25-02/28/98 | CFC1C10M |
| Antimony | ND | 60.0 ug, Dilution Factor: 1 Analysis Time: 1 | <u>.</u> | ILM03.0 | 02/25-02/27/98 | CFC1C102 |
| Barium | 23.5 B | 200 ug, Dilution Factor: 1 Analysis Time: 1 | - | ILM03.0 | 02/25-02/27/98 | CFC1C103 |
| Selenium | ND | 5.0 ug, Dilution Factor: 1 Analysis Time: 2 | | ILM03.0 | 02/25-02/28/98 | CFC1C10N |
| Beryllium | ND | 5.0 ug, Dilution Factor: 1 Analysis Time: 1 | | ILM03.0 | 02/25-02/27/98 | CFC1C104 |
| Thallium | 5.1 B | 10.0 ug, Dilution Factor: 1 Analysis Time: 2 | | ILM03.0 | 02/25-02/28/98 | CFC1C10P |
| Cadmium | ИD | 5.0 ug, Dilution Factor: 1 Analysis Time: 1 | | ILM03.0 | 02/25-02/27/98 | CFC1C105 |
| Calcium | 35900 | 5000 ug/ Dilution Factor: 1 | | ILM03.0 | 02/25-02/27/98 | CFC1C106 |

Analysis Time..: 18:50

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-006

| | | REPORTING | | PREPARATION- | WORK |
|-------------------|--------|------------------------------|---------------|----------------|-----------|
| PARAMETER | RESULT | LIMIT UNITS | METHOD | ANALYSIS DATE | |
| Chromium | ND | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C107 |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| Cobalt | ND | 50.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C108 |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| G | 9.4 B | 25.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CEC1 C100 |
| Copper | 9.4 B | Dilution Factor: 1 | TCUP ILENOS.V | 02/25-02/27/36 | Crcicios |
| | | Analysis Time: 18:50 | | | |
| | | Alarysis ilme 10.00 | | | |
| Iron | 713 | 100 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10A |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| Magnesium | 2160 B | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10C |
| • | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | et. | |
| M | 0.4 F | 15.0/7 | ICLP ILM03.0 | 02/25-02/27/98 | CEC1C10D |
| Manganese | 24.5 | 15.0 ug/L Dilution Factor: 1 | ICEP ILMOS.V | 02/25-02/27/90 | CPCICIOD |
| | | Analysis Time: 18:50 | | | |
| | | Anatysis lime 10.30 | | | |
| Nickel | ND | 40.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10E |
| * | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| Potassium | 659 B | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10F |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| | | - | | | |
| Silver | ND | 10.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10G |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| Sodium | 11100 | 5000 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C1OF |
| | | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | | | |
| Vanadium | 25.4 B | 50.0 ug/L | ICLP ILM03.0 | 02/25-02/27/98 | CFC1C10 |
| · maraca i titili | 2J.T 1 | Dilution Factor: 1 | | | |
| | | Analysis Time: 18:50 | • | | |
| | | • | | | |

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-006

Matrix....: WATER

REPORTING PREPARATION-WORK PARAMETER RESULT UNITS ANALYSIS DATE ORDER # OFCIC101 LIMIT METHOD Zinc 26.4 20.0 ug/L ICLP ILM03.0

Dilution Factor: 1

Analysis Time..: 18:50

NOTE(S):

B Estimated result. Result is less than RL.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/11/98 Date Extracted: 02/18/98

Work Order: CFA8H101 Dilution factor: 1

Date Analyzed: 02/19/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-TB01-98A

| CAS NO. | COMPOUND (ug/L or u | g/kg) ug/L | Q |
|------------|----------------------------|------------|------------|
| 74-87-3 | Chloromethane | 10 | <u>U</u> |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl chloride | 10 | <u> </u> |
| 75-00-3 | Chloroethane | 10 | <u> </u> U |
| 75-09-2 | Methylene chloride | 1.8 | <u>J B</u> |
| 67-64-1 | Acetone | 20 | U |
| 75-15-0 | Carbon disulfide | 5.0 | <u></u> |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | <u></u> |
| 540-59-0 | 1,2-Dichloroethene (total) | 5.0 | |
| 67-66-3 | Chloroform | 5.0 | <u> </u> |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | <u></u> |
| 78-93-3 | 2-Butanone | 20 | <u>U</u> |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | |
| 56-23-5 | Carbon tetrachloride | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 5.0 | <u></u> U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u></u> U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u></u> U |
| 79-01-6 | Trichloroethene | 5.0 | <u></u> U |
| 124-48-1 | Dibromochloromethane | 5.0 | <u> </u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u></u> |
| 71-43-2 | Benzene | 5.0 | <u> </u> |
| 10061-02-6 | trans-1,3-Dichloropropene | | <u> </u> |
| 75-25-2 | Bromoform | | <u>U</u> |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | <u> </u> |
| 591-78-6 | 2-Hexanone | 20 | <u></u> u |
| 127-18-4 | Tetrachloroethene | 5.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | <u>U</u> |

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: H8B110165 007

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFA8H101

Date Received: 02/11/98 Date Extracted:02/18/98

Dilution factor: 1

Date Analyzed: 02/19/98

Moisture %:NA

QC Batch: 8049200

Client Sample Id: IR41-TB01-98A

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

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL Work Order: CFC19101 Dilution factor: 1

Date Received: 02/12/98 Date Extracted: 02/24/98 Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TB02-98A

| CAS NO | COMPOUND (ug/L or ug | g/kg) ug/L | Q |
|------------|----------------------------|-------------|--|
| 74-87-3 | Chloromethane | 10 | UU |
| 74-83-9 | Bromomethane | _ 10 | lU |
| 75-01-4 | Vinyl chloride | _ 10 | U |
| 75-00-3 | Chloroethane | 10 | <u> </u> |
| 75-09-2 | Methylene chloride | 2.4 | <u> ЈВ</u> |
| 67-64-1 | Acetone | 20 | <u>U</u> |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | lu |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | <u></u> |
| 540-59-0 | 1,2-Dichloroethene (total) | <u> 5.0</u> | <u></u> |
| 67-66-3 | Chloroform | 5.0 | <u> </u> |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | <u></u> |
| 78-93-3 | 2-Butanone | | <u> </u> |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | <u></u> |
| 56-23-5 | Carbon tetrachloride | | <u></u> |
| 75-27-4 | Bromodichloromethane | 5.0 | |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | <u></u> U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | <u></u> |
| 79-01-6 | Trichloroethene | 5.0 | <u></u> U |
| 124-48-1 | Dibromochloromethane | 5.0 | <u> u</u> |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | <u></u> |
| 71-43-2 | Benzene | 5.0 | <u></u> |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | <u></u> |
| 75-25-2 | Bromoform | 5.0 | <u>U</u> |
| 108-10-1 | 4-Methyl-2-pentanone | 20 | <u> </u> |
| 591-78-6 | 2-Hexanone | 20 | <u> </u> <u>U</u> |
| 127-18-4 | Tetrachloroethene | | <u> </u> |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | |

Lab Name: QUANTERRA

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID:H8B120170 004

Method: SW846 8260A

Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / mL

Date Received: 02/12/98

Work Order: CFC19101

Date Extracted:02/24/98

Dilution factor: 1

Date Analyzed: 02/24/98

Moisture %:NA

QC Batch: 8055197

Client Sample Id: IR41-TB02-98A

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

SITE 74

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

3.11 ph/9.5 123

Client Sample ID: IR74-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A230135-010

Date Sampled...: 01/22/98

Date Received..: 01/23/98

REPORTING PREPARATION-WORK ANALYSIS DATE ORDER # RESULT LIMIT UNITS **METHOD** Prep Batch #...: 8027129 ICLP ILM03.0 01/27-01/28/98 CF2L710T 0.054 B 0.20 ug/L Mercury Dilution Factor: 1 Prep Batch #...: 8028111 Aluminum 838 200 ug/L ICLP ILM03.0 01/28-02/05/98 CF2L7103 Dilution Factor: 1 01/28-01/30/98 CF2L710N Arsenic ND 10.0 ug/L ICLP ILM03.0 Dilution Factor: 1 01/28-01/30/98 CF2L710F ICLP ILM03.0 Lead ND 3.0 ug/L Dilution Factor: 1 ICLP ILM03.0 01/28-02/05/98 CF2L7104 Antimony ND 60.0 ug/L Dilution Factor: 1 Barium 48.7 B 200 uq/L ICLP ILM03.0 01/28-02/05/98 CF2L7105 Dilution Factor: 1 01/28-01/30/98 CF2L710C ND ug/L ICLP ILM03.0 Selenium 5.0 Dilution Factor: 1 01/28-02/05/98 CF2L7106 Beryllium ug/L ICLP ILM03.0 ND 5.0 Dilution Factor: 1 Thallium ND ug/L ICLP ILM03.0 01/28-01/30/98 CF2L710I Dilution Factor: 1 01/28-02/05/98 CF2L710° Cadmium ND 5.0 ug/L ICLP ILM03.0 Dilution Factor: 1 01/28-02/05/98 CF2L710 5000 ug/L ICLP ILM03.0 Calcium 984 B Dilution Factor: 1 01/28-02/05/98 CF2L710: ICLP ILM03.0 Chromium ND 10.0 ug/L Dilution Factor: 1 01/28-02/05/98 CF2L710 Cobalt ND 50.0 ug/L ICLP ILM03.0 Dilution Factor: 1 ICLP ILM03.0 01/28-02/05/98 CF2L710 25.0 ug/L Copper 3.9 B Dilution Factor: 1

Client Sample ID: IR74-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A230135-010

| roc-sample # | : H8A23UI3 | 5-010 | | | Matrix | .: WATER |
|--------------|------------|--------------|-------------|---------------|-------------------------------|------------------|
| PARAMETER | RESULT | REPORTI | NG UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Iron | 423 | 100 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | |
| | 5 | Dilution Fa | | 1011 111/05/0 | 01,20 02,03,30 | C1 227 101 |
| Magnesium | 1950 B | 5000 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L710I |
| | | Dilution Fa | ctor: 1 | | | |
| Manganese | 5.3 B | 15.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L7101 |
| | | Dilution Fa | ctor: 1 | | | |
| Nickel | ND | 40.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L7100 |
| | | Dilution Fa | ctor: 1 | | | |
| Potassium | 1070 B | 5000 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L710F |
| | | Dilution Fac | ctor: 1 | | | |
| Silver | ND | 10.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L710J |
| | | Dilution Fa | ctor: 1 | | | , and the second |
| Sodium | 11400 | 5000 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2LJK |
| | | Dilution Fac | ctor: 1 | | | |
| Vanadium | 10.6 B | 50.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L710L |
| | | Dilution Fac | ctor: 1 | | | |
| Zinc | 2.5 B | 20.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L710M |
| | | Dilution Fac | ctor: 1 | | | |
| | | | | | | |

B Estimated result. Result is less than RL.

NOTE(S):

Matrix.... WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW01-98A

General Chemistry

Lot-Sample #...: H8A230135-010 Work Order #...: CF2L7

Date Sampled...: 01/22/98 Date Received..: 01/23/98

 PARAMETER
 RESULT
 RL
 UNITS
 METHOD
 ANALYSIS DATE
 BATCH #

 Total Dissolved
 37
 10
 mg/L
 MCAWW 160.1
 01/27-01/28/98
 8027158

Solids

Dilution Factor: 1

Total Suspended 15 4.0 mg/L MCAWW 160.2 01/27-01/28/98 8027159

Solids

Dilution Factor: 1

Client Sample ID: IR74-GW02-98A

TOTAL Metals

| | | T | OTAL Metals | | | | |
|---------------------------|-------------------------|-----------------------------|----------------|-------|---------|-------------------------------|-----------------|
| Lot-Sample # Date Sampled | | 011 Date Received: 01/23/98 | | | | Matrix: | WATER |
| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHO | מכ | PREPARATION- ANALYSIS DATE | WORK ORDER # |
| Prep Batch # Mercury | : 8027129 0.050 B | 0.20 Dilution Facto | ug/L r: 1 | ICLP | IIM03.0 | 01/27-01/28/98 | CF2L8101 |
| Prep Batch # | : 8028111 796 | 200 Dilution Facto | ug/L r: 1 | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8103 |
| Arsenic | ND | 10.0 Dilution Facto | • | ICLP | ILM03.0 | 01/28-01/30/98 | CF2L810N |
| Lead | 2.5 B | 3.0 Dilution Facto | | ICLP | ILM03.0 | 01/28-01/30/98 | CF2L810F |
| Antimony | ND | 60.0 Dilution Facto | - | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8104 |
| Barium | 54.2 B | 200 Dilution Facto | - - | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8105 |
| Selenium | ND | 5.0 Dilution Facto | • | ICLP | ILM03.0 | 01/28-01/30/98 | CF2L810Q |
| Beryllium | ND | 5.0 Dilution Facto | | ICLP | ILMO3.0 | 01/28-02/05/98 | CF2L8106 |
| Thallium | ND | 10.0 Dilution Facto | ug/L r: 1 | ICLP | ILM03.0 | 01/28-01/30/98 | CF2L810R |
| Cadmium | ND | 5.0 Dilution Facto | • | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8107 |
| Calcium | 19200 | 5000 Dilution Facto | | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8108 |
| Chromium | ND | 10.0 Dilution Facto | - · | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L8109 |
| Cobalt | ND | 50.0 Dilution Facto | = | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810A |
| Copper | ND | 25.0 Dilution Facto | ug/L r: 1 | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810C |

Client Sample ID: IR74-GW02-98A

TOTAL Metals

Lot-Sample #...: H8A230135-011

Matrix....: WATER

| | | REPORTI | NG | | | PREPARATION- | WORK |
|-----------|--------|-------------|------------|-------|---------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | מכ | ANALYSIS DATE | ORDER # |
| Iron | 724 | 100 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810D |
| | | Dilution Fa | ctor: 1 | | | | |
| Magnesium | 1570 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810B |
| | | Dilution Fa | ctor: 1 | | | | |
| Manganese | 8.8 B | 15.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810F |
| | | Dilution Fa | ctor: 1 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810G |
| | | Dilution Fa | ctor: 1 | | | | |
| Potassium | ND | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810H |
| | | Dilution Fa | ctor: 1 | | | | |
| Silver | ND | 10.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810J |
| | | Dilution Fa | ctor: 1 | | | | |
| Sodium | 3100 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810K |
| | - | Dilution Fa | ctor: 1 | | | | |
| Vanadium | 10.7 B | 50.0 | uq/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L810L |
| | | Dilution Fa | J . | | | | |
| Zinc | 6.0 B | 20.0 | ug/L | ICLP | IIM03.0 | 01/28-02/05/98 | CF2L810M |
| • | | Dilution Fa | ctor: 1 | | | | |
| | | | | | | | |

B Estimated result. Result is less than RL.

Client Sample ID: IR74-GW02-98A

General Chemistry

Lot-Sample #...: H8A230135-011 Work Order #...: CF2L8

Matrix....: WATER

Date Sampled...: 01/22/98

Date Received..: 01/23/98

| PARAMETER Total Dissolved | RESULT | RL 10 | UNITS mg/L | METHOD MCAWW 160.1 | PREPARATION- PREP ANALYSIS DATE BATCH # 01/27-01/28/98 8027158 |
|---------------------------|---------|-------------|------------|--------------------|--|
| Solids | Dilutio | n Factor: 1 | | | |
| Total Suspended Solids | ND | 4.0 | mg/L | MCAWW 160.2 | 01/27-01/28/98 8027159 |
| | Dilutio | n Factor: 1 | | | |

Client Sample ID: IR74-GW03A-98A

TOTAL Metals

Lot-Sample #...: H8A230135-012

Date Sampled...: 01/22/98 Date Rece

Matrix....: WATER Date Received..: 01/23/98

| | | REPORTIN | I G | | PREPARATION- | WORK |
|--------------|----------------|--------------|----------------|---------------|------------------|-------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHOD | ANALYSIS DATE | ORDER #_ |
| | | | | | | |
| Prep Batch # | : 8027129 | | | | | |
| Mercury | 0.051 B | 0.20 | ug/L | ICLP ILM03.0 | 01/27-01/28/98 | CF2L910Q |
| | | Dilution Fac | tor: 1 | | | |
| | | | | | | |
| Prep Batch # | : 8028111 | | | | · | |
| Aluminum | 3710 | 200 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L9101 |
| | | Dilution Fac | tor: 1 | | | |
| Arsenic | ND | 10.0 | ug/L | ICLP ILM03.0 | 01/28-01/30/98 | CE21.91.01. |
| AISCHIC | ND | Dilution Fac | - - | TCHF TEMOS.O | 01/20-01/30/30 | C1 223202 |
| | | Dilucion luc | | | | |
| Lead | 2.5 B | 3.0 | ug/L | ICLP ILM03.0 | 01/28-01/30/98 | CF2L910M |
| | | Dilution Fac | tor: 1 | | | |
| | | | | | | |
| Antimony | ND | 60.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L9102 |
| | | Dilution Fac | tor: 1 | | | |
| Barium | 58.9 B | 200 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L9103 |
| | 30.3 2 | Dilution Fac | • | | ,,, | |
| | | | | | | |
| Selenium | ND | 5.0 | ug/L | ICLP ILM03.0 | 01/28-01/30/98 | CF2L910N |
| | | Dilution Fac | tor: 1. | | | |
| | | | - | | 01/00 00/05/00 | GEOT 01 04 |
| Beryllium | ND | 5.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L9104 |
| | | Dilution Fac | tor: 1 | | | |
| Thallium | 3.4 B | 10.0 | ug/L | ICLP ILM03.0 | 01/28-01/30/98 | CF2L910E |
| | | Dilution Fac | | | • • • • | |
| | | | | | | |
| Cadmium | ND | 5.0 | ug/L | ICLP ILM03.0 | _ 01/28-02/05/98 | CF2L9105 |
| | N _m | Dilution Fac | tor: 1 | | | |
| | | | /- | TOT D TTM03 0 | 01/00 00/05/05 | GP27 01 04 |
| Calcium | 290 B | 5000 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CFZLISIO |
| | | Dilution Fac | ctor: 1 | | | |
| Chromium | ND | 10.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | CF2L9107 |
| | | Dilution Fac | - | | | |
| | | | | | | |
| Cobalt | ND | 50.0 | ug/L | ICLP ILM03.0 | 01/28-02/05/98 | 3 CF2L910 |
| | | Dilution Fac | ctor: 1 | | | |
| | | 25.0 | /* | TOTAL TIMOS A | 01/28-02/05/98 | CR2T.910 |
| Copper | 3.3 B | | ug/L | ICLP ILM03.0 | 01/20-02/03/98 | , CEGUSIV: |
| | | Dilution Fac | LUL: I | | | |

Matrix....: WATER

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW03A-98A

TOTAL Metals

Lot-Sample #...: H8A230135-012

| | | REPORTII | //G | | | PREPARATION- | WORK |
|-----------|--------|--------------|---------|-------|---------|----------------|------------------------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | מכ | ANALYSIS DATE | ORDER # |
| Iron | 803 | 100 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | etor: 1 | | | | |
| Magnesium | 565 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | ctor: 1 | | | | |
| Manganese | 6.1 B | 15.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | ctor: 1 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | ctor: 1 | | | | |
| Potassium | 782 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | ctor: 1 | | | | |
| Silver | ND | 10.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | tor: 1 | | | | , |
| Sodium | 8700 | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | راد ــدا (CF2کــ _ا |
| | | Dilution Fac | ctor: 1 | | | | |
| Vanadium | 13.6 B | 50.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L910 |
| | | Dilution Fac | tor: 1 | | | | |
| Zinc | 8.7 B | 20.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2L9101 |
| | | Dilution Fac | tor; 1 | | | | |

B Estimated result. Result is less than RL.

Client Sample ID: IR74-GW03A-98A

General Chemistry

Lot-Sample #...: H8A230135-012
Date Sampled...: 01/22/98

Work Order #...: CF2L9

Matrix....: WATER

Date Received..: 01/23/98

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- PREP ANALYSIS DATE BATCH # |
|---------------------------|---------|-------------|-------|-------------|---|
| Total Dissolved Solids | 60 | 10 | mg/L | MCAWW 160.1 | 01/27-01/28/98 8027158 |
| | Dilutio | n Factor: 1 | | | |
| Total Suspended Solids | ND | 4.0 | mg/L | MCAWW 160.2 | 01/27-01/28/98 8027159 |
| | Dilutio | n Factor: 1 | | | |

Client Sample ID: IR74-GW07-98A

TOTAL Metals

Lot-Sample #...: H8A230135-013

Matrix....: WATER Date Sampled...: 01/22/98 Date Received..: 01/23/98 REPORTING PREPARATION-WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER # Prep Batch #...: 8027129 Mercury 0.048 B 0.20 ug/L ICLP ILM03.0 01/27-01/28/98 CF2LA10 Dilution Factor: 1 Prep Batch #...: 8028111 Aluminum 345 200 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA10. Dilution Factor: 1 Arsenic ND 10.0 ICLP ILM03.0 ug/L 01/28-01/30/98 CF2LA101 Dilution Factor: 1 Lead ND 3.0 ug/L ICLP ILM03.0 01/28-01/30/98 CF2LA10N Dilution Factor: 1 Antimony 60.0 ug/L ND ICLP ILM03.0 01/28-02/05/98 CF2LA10: Dilution Factor: 1 Barium 96.5 B 200 uq/L ICLP ILM03.0 01/28-02/05/98 CF2LA103 Dilution Factor: 1 Selenium ND 5.0 ug/L ICLP ILM03.0 01/28-01/30/98 CF2LA10N Dilution Factor: 1 Beryllium ND 5.0 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA104 Dilution Factor: 1 Thallium ND 10.0 ug/L ICLP ILM03.0 01/28-01/30/98 CF2LA10F Dilution Factor: 1 Cadmium ND 5.0 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA105 Dilution Factor: 1 Calcium 515 B 5000 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA106 Dilution Factor: 1 Chromium ND 10.0 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA107 Dilution Factor: 1 Cobalt ND 50.0 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA108 Dilution Factor: 1 Copper 7.4 B 25.0 ug/L ICLP ILM03.0 01/28-02/05/98 CF2LA109

(Continued on next page)

Dilution Factor: 1

Client Sample ID: IR74-GW07-98A

TOTAL Metals

Lot-Sample #...: H8A230135-013

Matrix....: WATER

| | | REPORTI | | | | PREPARATION- | WORK |
|-----------|--------|--------------|---------|-------|---------|----------------|----------|
| PARAMETER | RESULT | LIMIT | UNITS | METHO | | ANALYSIS DATE | |
| Iron | 1840 | 100 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10A |
| | | Dilution Fac | ctor: 1 | | | | |
| Magnesium | 2310 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA100 |
| | | Dilution Fac | ctor: 1 | | | | |
| Manganese | 6.2 B | 15.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10I |
| • | | Dilution Fac | ctor: 1 | | | | |
| Nickel | ND | 40.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10E |
| | | Dilution Fac | ctor: 1 | | , | | |
| Potassium | 1020 B | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10E |
| | | Dilution Fac | ctor: 1 | | | | |
| Silver | ND | 10.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA100 |
| | | Dilution Fac | ctor: 1 | | | | |
| Sodium | 8410 | 5000 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10F |
| | | Dilution Fac | ctor: 1 | | | | |
| Vanadium | 9.5 B | 50.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10 |
| | | Dilution Fa | ctor: 1 | | | | |
| Zinc | 6.0 B | 20.0 | ug/L | ICLP | ILM03.0 | 01/28-02/05/98 | CF2LA10I |
| • . | | Dilution Fa | ctor: 1 | * | | | |

B Estimated result. Result is less than RL.

Client Sample ID: IR74-GW07-98A

General Chemistry

Lot-Sample #...: H8A230135-013

Work Order #...: CF2LA

Matrix....: WATER

Date Sampled...: 01/22/98

Date Received..: 01/23/98

| PARAMETER Total Dissolved Solids | RESULT | RL 10 | UNITS mg/L | METHOD MCAWW 160.1 | PREPARATION- ANALYSIS DATE 01/27-01/28/98 | PREP BATCH 802715 |
|------------------------------------|----------|-----------|---------------|--------------------|---|-------------------------|
| | Dilution | Factor: 1 | | | | |
| Total Suspended Solids | ND | 4.0 | mg/L | MCAWW 160.2 | 01/27-01/28/98 | 802715! |
| | Dilution | Factor: 1 | | | | |