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QUARTERLY GROUNDWATER SAMPLING AT OPERABLE UNIT 2 (OU 2) AND STUDY AREA 52 MARCH 2003 NTC ORLANDO FL

6/16/2003

TETRA TECH

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June 18, 2003

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Reference: CLEAN Contract No. N62467-94-D-0888
Contract Task Order No. 0235

Subject: Quarterly Groundwater Sampling, March 2003 – OU 2 and SA 52
Naval Training Center, Orlando, Florida

Dear Ms. Nwokike:

Enclosed are reports for the quarterly sampling conducted at OU 2 and SA 52 in March 2003. The two reports are provided in hardcopy and CD formats.

If you have any questions, please contact me at (865) 220-4730.

Sincerely,

Steven B. McCoy, P.E.
Task Order Manager

SBM:ckf

Enclosure

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GROUNDWATER SAMPLING
at
OPERABLE UNIT 2
MARCH 2003

Naval Training Center
Orlando, Florida

Southern Division
Naval Facilities Engineering Command

Contract Number N62467-94-D-0888

Contract Task Order 0235

June 2003

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GROUNDWATER SAMPLING AT OPERABLE UNIT 2
NAVAL TRAINING CENTER, ORLANDO

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Contract: No. N62467-94-D-0888
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Date: June 18, 2003

1. INTRODUCTION

Quarterly groundwater sampling was conducted at Operable Unit (OU) 2 in March 2003. The fieldwork was performed in accordance with the *Work Plan for Well Installation and Groundwater Sampling, Operable Unit 2* (Tetra Tech NUS, 2002a), and the *Project Operations Plan* (POP) (ABB-ES, 1997).

2. FIELD ACTIVITIES

Tetra Tech NUS mobilized to the field on March 19, 2003, to perform quarterly sampling at Study Area (SA) 2, SA 52, OU 2 and OU 3. Work at OU 2 began on March 24, 2003.

2.1 Water Level Survey

Groundwater levels were measured in all wells and piezometers that could be located or were not submerged under water at OU 2 on March 24, 2003. Groundwater elevations for this field event and previous events are summarized in Table 1. Well caps were removed at least 0.5 hour before the first round of water level measurements was collected. A second round of water levels was collected a minimum of 0.5 hour after the initial round. If the difference in the water levels was greater than 0.05 foot,

additional measurements were collected every 0.5 hour until the water level stabilized. Staff gauge readings in the canals were also taken on March 25, 2003, and are summarized in Table 1.

2.2 Sampling

Groundwater sampling was conducted at OU 2 from March 25-26, 2003. Fifty-two wells were purged and sampled. All wells were purged and sampled using the low-flow method described in the POP. Purging of wells consisted of removing groundwater with a peristaltic pump at a flow rate of approximately 100 ml/min until field parameters (temperature, pH, conductivity, turbidity, and dissolved oxygen had stabilized. Water levels in the 2-inch wells were continuously monitored to maintain drawdown at less than 0.3 foot. In the 0.5-inch microwells, the small diameter of the well casing prevented simultaneous measurement of the depth to water during purging. Groundwater sample log sheets are included in Appendix A.

Groundwater samples from all of the sampled wells at OU 2 were analyzed for TCL VOCs using SW 846 8260B, and iron and manganese using Method SW 846 6010B. VOC samples were collected by the tube evacuation method.

Twenty-five samples were analyzed for ions using USEPA Method 300.0A and twenty-one of those samples were also analyzed for alkalinity using USEPA Method 310.1. Samples with a pH less than 5.0 were not analyzed for alkalinity. Six of the samples were also analyzed for dissolved organic carbon (DOC) using USEPA Method 415.1. Samples for DOC analysis were filtered in the field.

Twenty-three of the groundwater samples were submitted to the laboratory for light hydrocarbons, permanent gases (aqueous samples), and hydrogen (gaseous samples) analyses. Hydrogen samples were collected using a gas bubble stripper in the field. In addition, these samples were analyzed in the field for natural attenuation (NA) parameters.

Eight surface water samples were collected and analyzed for TCL VOCs using SW 846 8260B, iron and manganese using Method SW 846 6010B, and chloride using USEPA Method 300.

All samples for light hydrocarbons, permanent gases, and hydrogen were placed in ice-chilled coolers and shipped via overnight delivery to Vaportech Services in Valencia, Pennsylvania. All other samples were placed in ice-chilled coolers and picked up by Accutest Laboratories in Orlando, Florida, for analysis.

2.3 Problems Encountered

Turbidity continued to be a problem in several OU 2 wells. Turbidity was greater than 10 NTUs in 14 of the 52 wells that were sampled. The repurging of 10 wells (OLD-OU2-02A, -02B, -03A, -03B, -21A, -21B, -29A, -29B, -30A, and -30B) on March 27, 2003, was not documented. This action was required for the collection of light hydrocarbons, permanent gases, and hydrogen samples, because more than six hours had passed since the initial purging of the wells on March 26.

3. RESULTS

3.1 Water Level Survey

Groundwater elevation data at OU 2 are presented in Table 1 and the potentiometric surface contours for the shallow, and intermediate aquifer zones are presented in Figures 1 and 2. Groundwater flow in the surficial aquifer at OU 2 contains both horizontal and vertical components. Away from the canals that are present along the eastern and portions of the southern and western boundaries of the site, the gradients are small and groundwater flows both horizontally and downward. Close to the canals, the horizontal gradient increases and the vertical gradient reverses (i.e., becomes upward) as groundwater is discharged into the canals. The horizontal groundwater flow direction in the intermediate zone of the aquifer is very similar to the flow in the shallow portion. The flow direction in the deep Hawthorn zone is generally toward the southwest and is thought to be independent from the shallow and intermediate zones of the surficial aquifer. These flow directions are consistent with those reported earlier (TtNUS, 2001a, 2002b, 2002c, 2002d, and 2003).

3.2 Data Validation

A limited data validation was performed using the USEPA Contract Laboratory Program guidelines for inorganic and organic data review (USEPA, 1994 and 1999) and the Naval Facilities Engineering Service Center (NFESC) guidelines “Navy Installation Restoration Chemical Data Quality Manual” (NFESC, 1999). The data validation evaluated data completeness, holding time compliance, calibration compliance, laboratory blank contamination, and detection limits. The validation process results in qualifiers that are shown with the analyte concentrations in Tables 2 through 8.

3.3 Analytical Results

The analyte detections for this round of sampling are summarized in Table 3 for groundwater and Table 4 for surface water. The historical detections are compiled in Tables 5 and 6 for groundwater and surface water, respectively. Validated groundwater analytical data for the March 2003 sampling event are

included as Table 7. Shaded cells indicate concentrations equal to or greater than Florida Groundwater Cleanup Target Levels (GCTLs) (FDEP, 1999) or established background concentrations (ABB-ES, 1995). Validated surface water analytical data for this event are included as Table 8. Shaded cells indicate concentrations equal to or greater than Florida Surface Water Cleanup Target Levels (SWCTLs) (FDEP, 1999). The distributions of contaminants detected above these criteria are shown on Figure 3.

Some historical groundwater data provided in the tables and tag maps are Phase III results from the OU 2 Remedial Investigation (TtNUS, 2001). If a well was not sampled during Phase III, data from Phase II are provided. Historical exceedances of inorganics from high turbidity wells are not shown on the tag maps, but a note refers the reader to the Remedial Investigation Report. Historical exceedances of organics in high turbidity wells are shown on the exceedances maps. If there is an exceedance of a screening criterion in the current quarter, it is shown on the maps along with historical data. If there was an historical exceedance (excluding inorganics in high-turbidity wells) it is shown along with current data.

There are three groundwater contaminant plumes within OU 2, one in the northern section of the site, and two to the south. The north plume is identified by well pairs (A and B wells) OLD-OU2-02, OLD-OU2-03, OLD-OU2-29, and OLD-OU2-30. The upper south plume is defined by well pairs OLD-OU2-21, OLD-OU2-27, and OLD-OU2-31, and the lower south plume is defined by well pairs OLD-OU2-18, OLD-OU2-21, OLD-OU2-32, and OLD-OU2-33. Although the southern plumes are discrete, well pair OLD-OU2-21 serves as the upgradient, or background, pair for both plumes.

Iron was detected above screening criteria in most of the wells sampled and in all wells sampled in the northern plume area. The concentrations remained high in OLD-OU2-30A, –30B, and –3B and increased significantly in –3A. Manganese was also found above the screening criterion in four of the wells in this area. Benzene was detected slightly above the screening criterion in one well (OLD-OU2-30B) in the northern plume area (1.5 µg/L). No other organic constituent exceeded the screening criteria in the northern plume area.

Benzene, trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride were the primary VOCs detected in the southern plumes (Figures 3 and 4). Benzene, TCE, PCE, and vinyl chloride exceedances were found in several intermediate wells. The frequency of detection of benzene and TCE decreased, and PCE increased compared to the December 2002 sampling event. The frequency of vinyl chloride detection reamined the same. TCE exceeded its screening criterion in five wells (OLD-OU2-DP02A, -32B, -18B, -DP02B, and -33B) in the area; benzene exceeded its criterion in five wells (OLD-OU2-27A, -31B, -37B, -28B, and -33B); and vinyl chloride exceeded the screening criterion in nine wells (OLD-OU2-27A, -27B, -31B, -37B, -28B, -DP02A, -18B, -DP02B, and -33B) (Figures 3 and 4). PCE was found

above the GCTL in three wells (OLD-OU2-18B, DP02A, and DP02B). It should be noted that this event marks the first occurrences of PCE and vinyl chloride in well OLD-OU2-DP02A, both are exceedances. In addition, this is the first instance of *cis*-1,2-Dichlorethene exceedances in wells OLD-OU2-DP02 and OLD-OU2-DP02B. The maximum concentration of TCE (3550 J µg/L) was found in well OLD-OU2-18B (duplicate sample). The maximum benzene concentration was 17.9 µg/L in well OLD-OU2-27A, and the maximum vinyl chloride concentration was 42 µg/L in well OLD-OU2-18B (Figure 4).

Iron concentrations exceeded the screening criterion in 5 surface water samples (SW29, SW33, SW30, SW35, and SW36) collected in the drainage canals (see Figure 3). Manganese exceeded in one sample (SW29).

3.4 Natural Attenuation Evaluation

Groundwater samples collected at the site during the March 2003 sampling event were analyzed for NA indicator parameters to investigate the occurrence of conditions favorable for NA of the organic COCs in the aquifer. The NA data are presented in Table 2. The March 2003 sample results show consistently low concentrations of the organic COCs in the shallow and intermediate portions of the aquifer in the northern plume, but a significant increase in concentrations in the shallow portion of the aquifer in the southern plume area (see Figures 3 and 4). In the intermediate portion of the aquifer in the southern plume area, concentrations of organic COCs exceeded GCTLs at eight well locations (OLD-OU2-18B, -27B, -28B, -31B, -32B, –33B, -37B, -DP02B) (see Figure 4). The concentrations of organics in the intermediate portion of the aquifer were higher overall than in the shallow portion of the aquifer and were higher during March 2003 than during any of the preceeding four quarters of sampling at several locations in the most southern portion of the plume (e.g., OLD-OU2-18B).

The following discussion summarizes the NA indicator parameters that suggest that natural biodegradation of the organic COCs is occurring in the aquifer. The data are presented separately for the shallow and intermediate aquifer depths, and only the key indicator parameter for wells located along the longitudinal axes of the northern and southern plume areas of OU 2 are presented. As indicated in the following tables, the southern plume consists of two plume areas. In addition to the NA parameter summary data, hydrographs were prepared for monitoring wells within and around each of the plume areas, separately for both shallow and intermediate depth wells, to help understand the hydrogeologic setting and it's potential impacts on the geochemistry of the aquifer (see Appendix B).

NA Parameter Summary - Shallow Aquifer (March 2003)

	Well[a]	DO mg/L	ORP mV	NO3 mg/L	Diss. Fe mg/L	SO4 mg/L	CH4 ug/L	H nm/L	Ethene ug/L	Ethane ug/L	Cl mg/L
North Plume	29A	0.52	-19	<0.1	3.8	55.9	161.1	1.3 J	0.03	<0.01	55.6
	30A	<0.15	87	<0.1	T	33.6	2267.6	1 J	0.22	0.07	85.8
	03A	<0.15	-19	0.13/0.11	T	<20	3729.6	2.2 J	0.03	0.15	<20
	02A	<0.15	-43	<0.1	5.0	<20	3868.8	1.0	0.03	0.18	24
South Plume	21A	0.50	86	<0.1	3.2	<20	<0.02	1.5 J	<0.01	<0.01	<20
	27A	0.48	24	<0.1	5.2	32.8	156.2	1.5 J	0.05	0.03	33.7
	31A	0.96	181	1.7	0.0	<20	4.6	2 J	0.01	<0.01	<20
South Plume	21A	0.50	86	<0.1	3.2	<20	<0.02	1.5 J	<0.01	<0.01	<20
	32A	2.71	260	0.1	1.5	<20	0.4	1.8 J	0.04	<0.01	<20
	33A	1.29	181	1.7	0.0	<20	1.5	1.8 J	0.02	<0.01	<20

(a) Wells shown represent upgradient, in-plume, and downgradient wells, respectively along each plume axis.
T Elevated turbidity of groundwater prevented colormetric analysis.

NA Parameter Summary - Intermediate Aquifer (March 2003)

	Well[a]	DO mg/L	ORP mV	NO3 mg/L	Diss. Fe mg/L	SO4 mg/L	CH4 ug/L	H nm/L	Ethene ug/L	Ethane ug/L	Cl mg/L
North Plume	29B	0.63	-56	<0.1	3.0	<20	2.2	1.4 J	<0.01	<0.01	<20
	30B	<0.15	-95	<0.1	6.4	<20	4188.5	1.8 J	0.10	0.23	93.1
	03B	<0.15	51	<0.1	3.0	<20	881.2	1.0 J	<0.01	0.03	49.6
	02B	<0.15	76	<0.1	4.2	24.4	97.6	1.4 J	<0.01	<0.01	54.2
South Plume	21B	<0.15	-42	<0.1	4.2	<20	1637.8	50 J	0.03	0.09	<20
	27B	<0.20	-7	<0.1	2.0	40.6	1923.4	1.8 J	0.38	0.09	<20
	31B	<0.15	-39	0.14	0.10	23.3	180.6	2.1 J	0.37	0.07	20.1
South Plume	21B	<0.15	-42	<0.1	4.2	<20	1637.8	50 J	0.03	0.09	<20
	32B	<0.15	-145	<0.1	1.1	<20	334.4	2.4 J	0.05	0.01	<20
	33B	<0.15	-158	<0.1	1.4	<20	1091.1	1.6 J	0.49	0.28	<20
	18B	<0.15	-141	<0.1	1.0	<20	795.7	2.3 J	5.11	0.43	<20
	DP02B	0.22	-82	<0.1	1.1	<20	1235.1	2.7 J	6.11	1.03	<20

(a) Wells shown represent upgradient, in-plume, and downgradient wells, respectively along each plume axis.

- The concentration of dissolved oxygen (DO) in groundwater across the plumes was typically less than 1.0 mg/L, but with some exceptions primarily in shallow wells in the southern plume area. Recharge to the aquifer that began in September 2002 (see Appendix B) appears to correlate with an influx of oxygen to the groundwater, but the pronounced effect at wells OLD-OU2-31A, -32A, and –33A is not readily explained by this mechanism alone. Typically, DO concentrations below 1.0 mg/L indicate conditions that tend to favor anaerobic reactions. The oxidation–reduction potential (ORP) of the aquifer was within the range favorable for anaerobic reactions (i.e., less than 250 millivolts) at nearly

every location. For most plume areas, the ORP in the intermediate portion of the aquifer was within the negative range, between 0 and -199 millivolts than is indicative of iron and sulfate reduction and/or methanogensis. Like oxygen, ORP was relatively higher at shallow in-plume wells -31A, -32A, and -33A in the south plume area.

- Ferrous iron (i.e., dissolved iron) concentrations were relatively high (typically 1 to 4 mg/L) at the in-plume wells and the up-gradient wells. This suggests that because oxygen is depleted the ferric iron in the aquifer has been used as an electron acceptor under increasingly anaerobic conditions. The anomolusly low ferrous iron in the downgradient portions of the southern plume areas (i.e., wells -31A and –33A) is consistent with the higher dissolved oxygen concentrations that are indicative of aerobic conditions. Again, it appears that geochemical conditions may have been affected by aquifer recharge.

- Concentrations of sulfate were generally less than 20 mg/L, but several exceptions were noted in both the shallow and intermediate portion of the aquifer (wells -29A, -30A, -27A, -27B, -028, and -31B). The relatively low sulfate concentrations indicate that sulfate is not over-competing for electron donors. Persistent concentrations of sulfate >20 mg/L in the southern plume area (i.e., wells –27A, -27B, and –31B) suggest that reductive dechlorination of the chlorinated COCs such as PCE and TCE may be at a standstill; however, these COCs do not have a significant presence in this area of the plume.

- The concentration of methane in many of the in-plume wells in the shallow (north plume) and intermediate portion of the aquifer was greater than 500 µg/L. These concentrations suggest that methane is being produced as an end-product of the reductive dechlorination of the chlorinated COCs. However, the presence of methane also suggests that conditions are not favorable for the oxidation of vinyl chloride (VC) and that this daughter product may accumulate in “strongly reduced“ areas within the aquifer. As expected, methane production is very low in the more aerobic portions of the plume (see DO discussion). It was noted that VC was not detected in the aerobic plume areas (wells –31A, -32A, and –33A) although VC was present at nearby up- or down-gradient wells. The presence of relatively high methane concentrations in the shallow, north plume area is not attributed to reductive dechlorination, but may be related to other fermentative processes associated with landfilled materials.

- The concentration of hydrogen in groundwater ranged between about 1 to 2.7 nanomoles per liter (nm/L) in the in-plume and downgradient wells in both the shallow and intermediate portions of the aquifer. The concentration at upgradient well –21B (50 nm/L) is considered spurious data. The plume-well concentrations are characteristic of redox conditions that favor sulfate-reduction and is a

good indicator that microbially-mediated reductive dechlorination is occurring. The high hydrogen concentration at well 21A and the detection of 5.7 µg/L of TCE in this well during the December 2002 sampling event were not observed in March 2003 and suggest a temporal cause and effect event related to high aquifer recharge prior to and during the December event.

In summary, the groundwater chemistry across the plume areas during the March 2003 sampling event were generally indicative of anaerobic conditions that favor reductive dechlorination of chlorinated compounds such as PCE, TCE, and DCE that are COCs. In addition, benzene may be used as an electron donor and thus destroyed during this process. On the other hand, aquifer conditions may be less favorable for the in situ destruction of vinyl chloride; however, the transition zone from the aquifer to the canal appears to facilitate geochemical conditions that prevent the discharge of COCs to surface water. It was noted that the March 2003 groundwater levels have fallen from the high levels observed during December 2002.

4. GROUNDWATER EVALUATION SUMMARY

Five quarters of groundwater monitoring were conducted at OU 2 between March 2002 and March 2003. A summary of NA indicator parameter results for samples collected from wells selected to represent each of the plume areas at OU 2 has been presented in each quarterly report. Figures 3 and 4 in this report present the concentrations of all COCs that exceeded the screening criteria for OU 2 during all five monitoring events. In the northern plume area the COCs of concern are primarily iron and manganese with only very low concentrations of benzene and vinyl chloride. The northern plume area is defined by concentrations of iron significantly greater than the background screening value (BSV) for McCoy Annex (i.e. 1227 µg/L) and higher than on-site concentrations observed in wells OLD-OU2-22A and -22B (maximum concentrations of 8050 and 1750 µg/L, respectively) that are upgradient of the landfill plume area. Within the iron plume, two wells showed concentrations of manganese above the screening level. And, only one well showed concentrations of benzene and vinyl chloride above their screening level of 1 µg/L (i.e., well -03A) in the shallow aquifer, and two wells showed an exceedance of benzene in the intermediate aquifer (i.e., wells 03B and -30B). The maximum concentrations observed for these two COCs were 7 µg/L and 4 µg/L, respectively. The NA indicator parameters showed a persistent signature of low dissolved oxygen, low ORP range, methane production, and available hydrogen in groundwater to suggest a strongly reducing environment. While these aquifer conditions may not be highly favorable for microbial-mediated destruction of benzene and vinyl chloride, the low concentrations of these organics present in the aquifer and their absence in surface water samples suggest that attenuation is limiting their discharge to surface water. On the other hand, iron is suspected to be a significant component of the landfill material and geophysical surveys suggest the iron plume is related to landfill trenches in the

northern plume area. Therefore, the strongly reducing environment is likely to continue to support high levels of dissolved (i.e., ferrous) and total iron in groundwater. Surface water samples collected immediately upstream and downstream of the area where the Northern plume contacts the drainage canal did not indicate impacts from discharge of iron to surface water during the June, September, and December 2002 sampling events (note: surface water samples were not collected in March 2002). Anomalously high iron in both the upgradient and downgradient surface water samples detected during the March 2003 event appears to be related to upgradient sources (or possibly sample turbidity).

The southern plume consists of a northern and southern section; the center lines of these areas are approximately defined by the well sets shown in the NA Parameter Summary tables (see above). Although iron exceeds the BSV in many of the southern plume wells, as documented in the RI and FS reports, the concentrations observed are consistent with locally high iron (both on- and off-site) and are attributed to reducing aquifer conditions; as such, iron is not considered a COC in either of the southern plume areas, although it was monitored and the results have been presented (TtNUS, 2001b). As described above for the northern plume area, high iron in surface water appears to be the exception and related to episodic events rather than the continual discharge from groundwater. As can be seen in Figures 3 and 4, high iron is much more prevalent in the intermediate aquifer depth which appears to be even more strongly reduced than the shallow aquifer.

The northern section of the southern plume is defined primarily by benzene and VC in the intermediate aquifer. Only one shallow well, -27A, contained a persistent exceedance of these COCs during the five quarters of sampling (one exceedance was observed at well -21A only during Dec-02). Because well -27A is located away from the drainage canal in what is considered to be a recharge area for the local water-table aquifer, the benzene is likely the result of residual contamination in landfill material that was detected in the area. However, because trenches used to bury waste likely extended below the current water table, it appears that most of the source material is impacting the lower portion of the water table aquifer (i.e., COCs primarily detected in the intermediate wells). The NA indicator parameters for this plume area showed a persistent signature of low dissolved oxygen, low ORP range, methane production, and available hydrogen in groundwater and suggest a strongly reducing environment. While these aquifer conditions may not be highly favorable for microbial-mediated destruction of benzene and vinyl chloride, the relatively low concentrations of these organics (max. benzene = 17.9 µg/L; max. VC = 6.6 ug/L) present in the aquifer and their absence in surface water samples suggest that attenuation is limiting their discharge to surface water. It was noted that the most downgradient portion of the shallow portion of the plume (i.e., well -31A location) appears to be less reducing (e.g., higher DO, lower methane) that may aid in limiting the discharge of benzene and VC by means of increased oxidation at the groundwater/surface water interface (hyporheic zone). This zone of exchange is an ecotone that lies

between the surface water and groundwater environments (Hayashi, 2002) and is often characterized by higher "dissolved oxygen provided by surface water exchange, particulate organic carbon occasionally reburied by streambed deposition, dissolved organic carbon in groundwater, and microbes that are typically associated with organic particles or biofilms that coat inorganic sediment particles."

The southern section of the southern plume area is defined primarily by PCE and TCE (thought to be components of land filled wastes) and their daughter products cis-1,2-dichloroethene and VC. The strongest source area is located adjacent to the southern portion of the drainage canal (i.e., well -18B) where groundwater discharges to the canal and persistently lower concentrations of COCs have been detected at wells located in more upgradient, recharge areas of the aquifer. As described above for the northern section of the southern plume, only one shallow well, -DP02A, contained an exceedance of COCs during the five quarters of sampling. Because well -DP02A is located adjacent to the drainage canal in what is considered to be a discharge area for the local water-table aquifer, the COCs at this location are considered to reflect upward flow of the deeper contaminated groundwater toward the canal. As described above for the northern section of the southern plume area, the NA indicator parameters for this plume area showed a persistent signature of low dissolved oxygen, low ORP range, methane production, and available hydrogen in groundwater and suggest a strongly reducing environment. These aquifer conditions may be highly favorable for microbial-mediated destruction of PCE and TCE and may be responsible for the relatively low concentrations observed in wells located away from the canal. A reduction in the concentration of COCs between closely-spaced intermediate wells (i.e. -18B and DP02B) and in a shallow/intermediate well pair located adjacent to the canal (i.e. DP02A and -02B) indicates that attenuation processes are reducing the contaminant mass prior to groundwater discharge. It was also noted that the shallow portion of the plume (i.e., well -32A and -33A locations) appears to be less reducing (e.g., higher DO, lower methane) that may aid in limiting the discharge of benzene and VC by means of increased oxidation processes. And, the hyporheic zone that lies between the surface water and groundwater environments (see description above) appears to be providing additional attenuation that further limits the discharge of COCs to the canal. COCs were not detected in any of the surface water samples collected immediately adjacent to wells -18B, -DP02B, and -DP02A (i.e., SW35 location).

5. REFERENCES

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FIGURES

No.

1 Groundwater Potentiometric Surface Map, Shallow Aquifer Zone, March 24, 2003

2 Groundwater Potentiometric Surface Map, Intermediate Aquifer Zone, March 24, 2003

3 Groundwater Exceedances, Shallow Aquifer Zone, March 2003

4 Groundwater Exceedances, Intermediate and Hawthorn Aquifer Zones, March 2003

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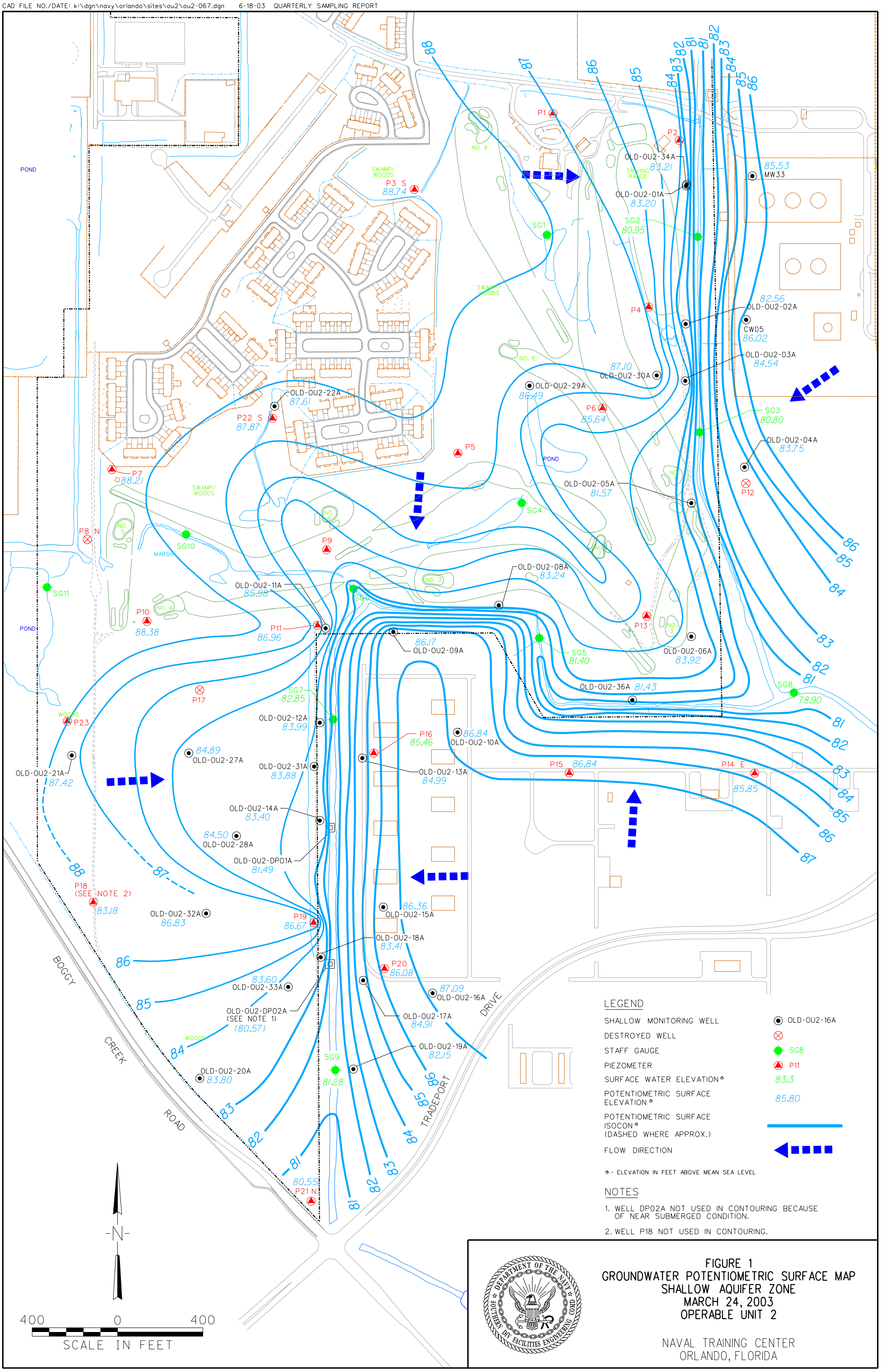

FIGURE 1
GROUNDWATER POTENTIOMETRIC SURFACE MAP
SHALLOW AQUIFER ZONE
MARCH 24, 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

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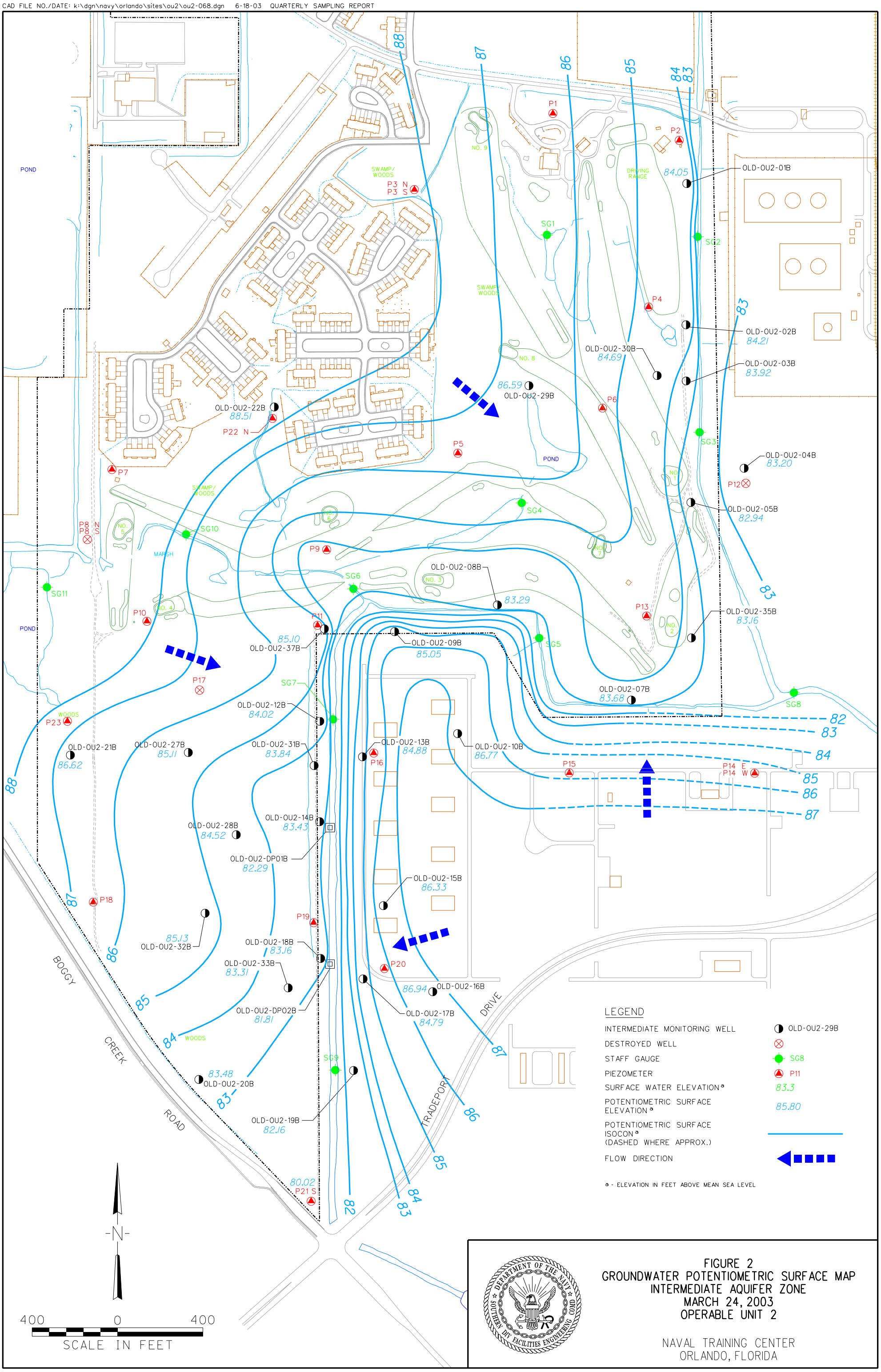

FIGURE 2
GROUNDWATER POTENTIOMETRIC SURFACE MAP
INTERMEDIATE AQUIFER ZONE
MARCH 24, 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

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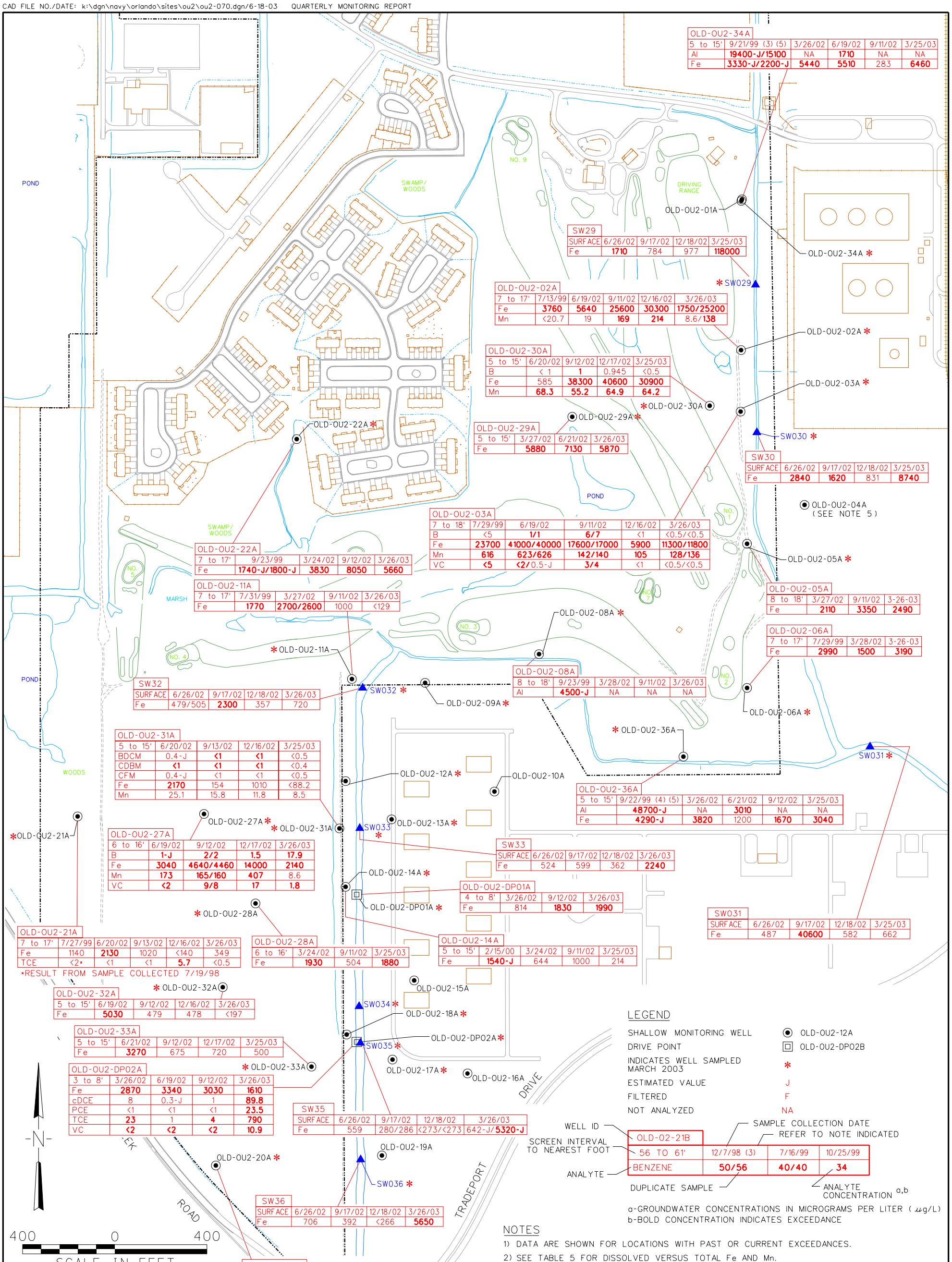

OLD-OU2-34A					
5 to 15'	9/21/99 (3) (5)	3/26/02	6/19/02	9/11/02	3/25/03
Al	**19400-J/15100**	NA	**1710**	NA	NA
Fe	**3330-J/2200-J**	**5440**	**5510**	283	**6460**

SW29				
SURFACE	6/26/02	9/17/02	12/18/02	3/25/03
Fe	**1710**	784	977	**118000**

OLD-OU2-02A					
7 to 17'	7/13/99	6/19/02	9/11/02	12/16/02	3/26/03
Fe	**3760**	**5640**	**25600**	**30300**	**1750/25200**
Mn	<20.7	19	**169**	**214**	8.6/**138**

OLD-OU2-30A				
5 to 15'	6/20/02	9/12/02	12/17/02	3/25/03
B	< 1	**1**	0.945	<0.5
Fe	585	**38300**	**40600**	**30900**
Mn	**68.3**	**55.2**	**64.9**	**64.2**

OLD-OU2-29A			
5 to 15'	3/27/02	6/21/02	3/26/03
Fe	**5880**	**7130**	**5870**

SW30				
SURFACE	6/26/02	9/17/02	12/18/02	3/25/03
Fe	**2840**	**1620**	831	**8740**

OLD-OU2-03A					
7 to 18'	7/29/99	6/19/02	9/11/02	12/16/02	3/26/03
B	<5	**1/1**	**6/7**	<1	<0.5/<0.5
Fe	**23700**	**41000/40000**	**17600/17000**	**5900**	**11300/11800**
Mn	**616**	**623/626**	**142/140**	**105**	**128/136**
VC	**<5**	**<2**/0.5-J	**3/4**	<1	<0.5/<0.5

OLD-OU2-22A				
7 to 17'	9/23/99	3/24/02	9/12/02	3/26/03
Fe	**1740-J/1800-J**	**3830**	**8050**	**5660**

OLD-OU2-11A				
7 to 17'	7/31/99	3/27/02	9/11/02	3/26/03
Fe	**1770**	**2700/2600**	1000	<129

OLD-OU2-05A			
8 to 18'	3/27/02	9/11/02	3-26-03
Fe	**2110**	**3350**	**2490**

OLD-OU2-06A			
7 to 17'	7/29/99	3/28/02	3-26-03
Fe	**2990**	**1500**	**3190**

OLD-OU2-08A				
8 to 18'	9/23/99	3/28/02	9/11/02	3/26/03
Al	**4500-J**	NA	NA	NA

SW32				
SURFACE	6/26/02	9/17/02	12/18/02	3/26/03
Fe	479/505	**2300**	357	720

OLD-OU2-31A				
5 to 15'	6/20/02	9/13/02	12/16/02	3/25/03
BDCM	0.4-J	**<1**	**<1**	<0.5
CDBM	**<1**	**<1**	**<1**	<0.4
CFM	0.4-J	<1	<1	<0.5
Fe	**2170**	154	1010	<88.2
Mn	25.1	15.8	11.8	8.5

OLD-OU2-36A					
5 to 15'	9/22/99 (4) (5)	3/26/02	6/21/02	9/12/02	3/25/03
Al	**48700-J**	NA	**3010**	NA	NA
Fe	**4290-J**	**3820**	1200	**1670**	**3040**

OLD-OU2-27A				
6 to 16'	6/19/02	9/12/02	12/17/02	3/26/03
B	**1-J**	**2/2**	**1.5**	**17.9**
Fe	**3040**	**4640/4460**	**14000**	**2140**
Mn	**173**	**165/160**	**407**	8.6
VC	**<2**	**9/8**	**17**	**1.8**

SW33				
SURFACE	6/26/02	9/17/02	12/18/02	3/26/03
Fe	524	599	362	**2240**

OLD-OU2-DP01A			
4 to 8'	3/26/02	9/12/02	3/26/03
Fe	814	**1830**	**1990**

SW031				
SURFACE	6/26/02	9/17/02	12/18/02	3/25/03
Fe	487	**40600**	582	662

OLD-OU2-21A					
7 to 17'	7/27/99	6/20/02	9/13/02	12/16/02	3/26/03
Fe	1140	**2130**	1020	<140	349
TCE	<2*	<1	<1	**5.7**	<0.5

*RESULT FROM SAMPLE COLLECTED 7/19/98

OLD-OU2-28A			
6 to 16'	3/24/02	9/11/02	3/25/03
Fe	**1930**	504	**1880**

OLD-OU2-14A				
5 to 15'	2/15/00	3/24/02	9/11/02	3/25/03
Fe	**1540-J**	644	1000	214

OLD-OU2-32A				
5 to 15'	6/19/02	9/12/02	12/16/02	3/26/03
Fe	**5030**	479	478	<197

OLD-OU2-33A				
5 to 15'	6/21/02	9/12/02	12/17/02	3/25/03
Fe	**3270**	675	720	500

OLD-OU2-DP02A				
3 to 8'	3/26/02	6/19/02	9/12/02	3/26/03
Fe	**2870**	**3340**	**3030**	**1610**
cDCE	8	0.3-J	1	**89.8**
PCE	<1	<1	<1	**23.5**
TCE	**23**	1	**4**	**790**
VC	**<2**	**<2**	**<2**	**10.9**

SW35				
SURFACE	6/26/02	9/17/02	12/18/02	3/26/03
Fe	559	280/286	<273/<273	642-J/**5320-J**

OLD-OU2-20A				
5 to 15'	7/21/99	3/26/02	9/12/02	3/26/03
Fe	544	**1380**	323	276

SW36				
SURFACE	6/26/02	9/17/02	12/18/02	3/26/03
Fe	706	392	<266	**5650**

LEGEND

SHALLOW MONITORING WELL	OLD-OU2-12A
DRIVE POINT	OLD-OU2-DP02B
INDICATES WELL SAMPLED MARCH 2003	*
ESTIMATED VALUE	J
FILTERED	F
NOT ANALYZED	NA

OLD-02-21B			
56 TO 61'	12/7/98 (3)	7/16/99	10/25/99
BENZENE	**50/56**	**40/40**	**34**

WELL ID; SCREEN INTERVAL TO NEAREST FOOT; ANALYTE; SAMPLE COLLECTION DATE; REFER TO NOTE INDICATED; DUPLICATE SAMPLE; ANALYTE CONCENTRATION a,b

a-GROUNDWATER CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
b-BOLD CONCENTRATION INDICATES EXCEEDANCE

NOTES

1) DATA ARE SHOWN FOR LOCATIONS WITH PAST OR CURRENT EXCEEDANCES.
2) SEE TABLE 5 FOR DISSOLVED VERSUS TOTAL Fe AND Mn.
3) DATA FROM OLD-OU2-01A PRIOR TO REPLACEMENT.
4) DATA FROM OLD-OU2-07A PRIOR TO REPLACEMENT.
5) REMOVED FROM SAMPLE PLAN DUE TO TURBIDITY. SEE REMEDIAL INVESTIGATION FOR DETAILS.
6) HISTORICAL DATA PRIOR TO MARCH 2002 ARE PHASE III RESULTS FROM THE OU2 REMEDIAL INVESTIGATION. IF A WELL WAS NOT SAMPLED DURING PHASE III, DATA FROM PHASE II ARE PROVIDED.

SCREENING CRITERIA

ABBREV.	ANALYTE	GCTL	BGSV	SWCTL
Al	ALUMINUM	200	4067	13
B	BENZENE	1	---	71.28
BDCM	BROMODICHLOROMETHANE	0.6	---	22
CDBM	CHLORODIBROMOMETHANE	0.4	---	34
cDCE	cis-1,2-DICHLOROETHENE	70	---	---
CFM	CHLOROFORM	5.7	---	470.8
Fe (2)	IRON (2)	300	1227	1000
Mn (2)	MANGANESE (2)	50	17	---
PCE	TETRACHLOROETHENE	3	---	8.85
TCE	TRICHLOROETHENE	3	---	80.7
V	VANADIUM	4	20.6	---
VC	VINYL CHLORIDE	1	---	---

GCTL=GROUNDWATER CLEANUP TARGET LEVEL
BGSV=BACKGROUND SCREENING VALUE
SWCTL=SURFACE WATER CLEANUP TARGET LEVEL

DEPARTMENT OF THE NAVY ★ SOUTHERN DIV FACILITIES ENGINEERING COMD

FIGURE 3
GROUNDWATER EXCEEDANCES
SHALLOW AQUIFER ZONE
QUARTERLY SAMPLING - MARCH 2003
OPERABLE UNIT 2 - McCOY ANNEX

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

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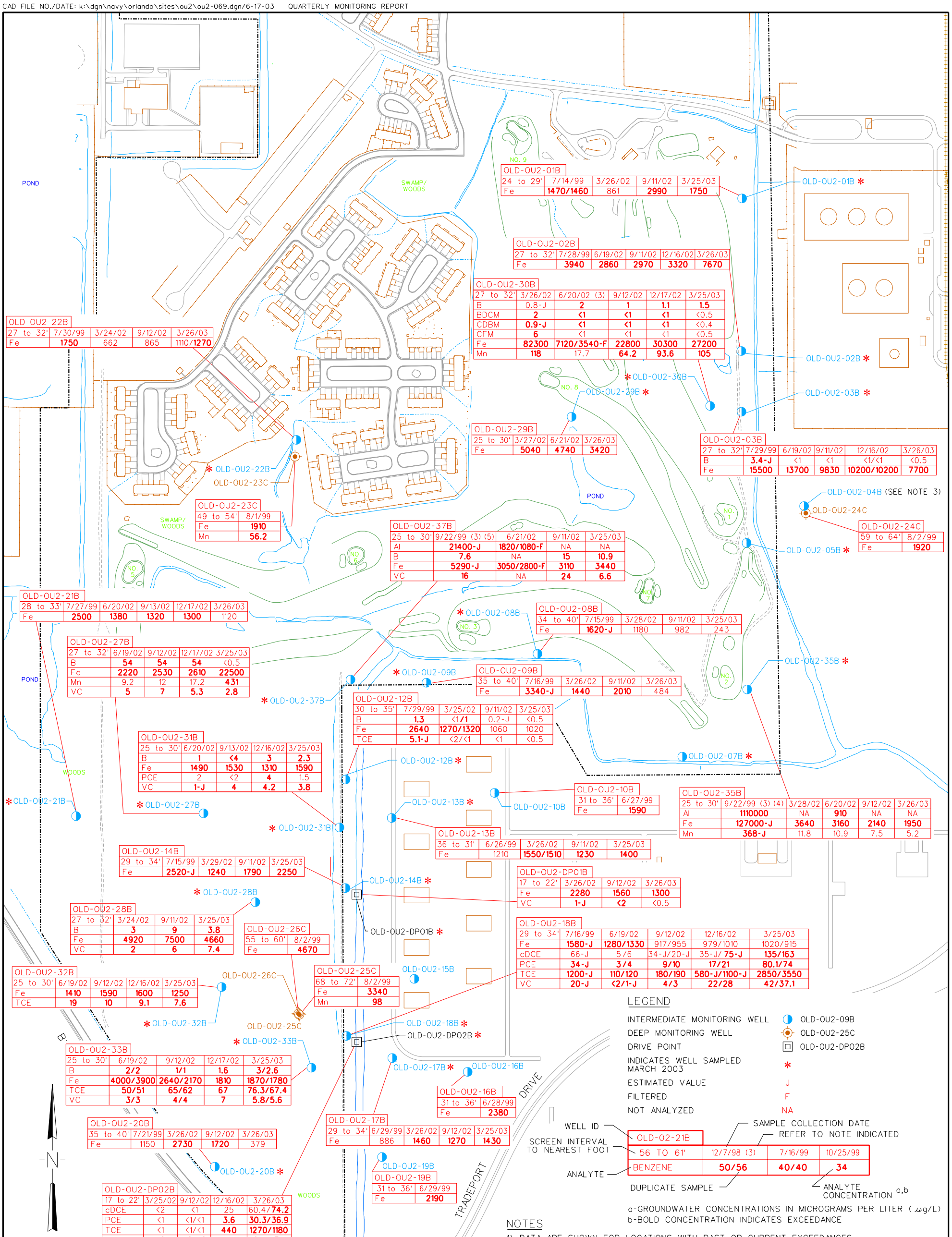


OLD-OU2-01B				
24 to 29'	7/14/99	3/26/02	9/11/02	3/25/03
Fe	**1470/1460**	861	**2990**	**1750**

OLD-OU2-02B					
27 to 32'	7/28/99	6/19/02	9/11/02	12/16/02	3/26/03
Fe	**3940**	**2860**	**2970**	**3320**	**7670**

OLD-OU2-30B					
27 to 32'	3/26/02	6/20/02 (3)	9/12/02	12/17/02	3/25/03
B	0.8-J	**2**	**1**	**1.1**	**1.5**
BDCM	**2**	**<1**	**<1**	**<1**	<0.5
CDBM	**0.9-J**	**<1**	**<1**	**<1**	<0.4
CFM	**6**	<1	<1	<1	<0.5
Fe	**82300**	**7120/3540-F**	**22800**	**30300**	**27200**
Mn	**118**	17.7	**64.2**	**93.6**	**105**

OLD-OU2-22B				
27 to 32'	7/30/99	3/24/02	9/12/02	3/26/03
Fe	**1750**	662	865	1110/**1270**

OLD-OU2-29B			
25 to 30'	3/27/02	6/21/02	3/26/03
Fe	**5040**	**4740**	**3420**

OLD-OU2-03B					
27 to 32'	7/29/99	6/19/02	9/11/02	12/16/02	3/26/03
B	**3.4-J**	<1	<1	<1/<1	<0.5
Fe	**15500**	**13700**	**9830**	**10200/10200**	**7700**

OLD-OU2-23C	
49 to 54'	8/1/99
Fe	**1910**
Mn	**56.2**

OLD-OU2-24C	
59 to 64'	8/2/99
Fe	**1920**

OLD-OU2-37B				
25 to 30'	9/22/99 (3) (5)	6/21/02	9/11/02	3/25/03
Al	**21400-J**	**1820/1080-F**	NA	NA
B	**7.6**	NA	**15**	**10.9**
Fe	**5290-J**	**3050/2800-F**	**3110**	**3440**
VC	**16**	NA	**24**	**6.6**

OLD-OU2-21B					
28 to 33'	7/27/99	6/20/02	9/13/02	12/17/02	3/26/03
Fe	**2500**	**1380**	**1320**	**1300**	1120

OLD-OU2-08B				
34 to 40'	7/15/99	3/28/02	9/11/02	3/25/03
Fe	**1620-J**	1180	982	243

OLD-OU2-27B				
27 to 32'	6/19/02	9/12/02	12/17/02	3/25/03
B	**54**	**54**	**54**	<0.5
Fe	**2220**	**2530**	**2610**	**22500**
Mn	9.2	12	17.2	**431**
VC	**5**	**7**	**5.3**	**2.8**

OLD-OU2-09B				
35 to 40'	7/16/99	3/26/02	9/11/02	3/26/03
Fe	**3340-J**	**1440**	**2010**	484

OLD-OU2-12B				
30 to 35'	7/29/99	3/25/02	9/11/02	3/25/03
B	**1.3**	**<1/1**	0.2-J	<0.5
Fe	**2640**	**1270/1320**	1060	1020
TCE	**5.1-J**	<2/<1	<1	<0.5

OLD-OU2-31B				
25 to 30'	6/20/02	9/13/02	12/16/02	3/25/03
B	**1**	**<4**	**3**	**2.3**
Fe	**1490**	**1530**	**1310**	**1590**
PCE	2	<2	**4**	1.5
VC	**1-J**	**4**	**4.2**	**3.8**

OLD-OU2-10B	
31 to 36'	6/27/99
Fe	**1590**

OLD-OU2-35B					
25 to 30'	9/22/99 (3) (4)	3/28/02	6/20/02	9/12/02	3/26/03
Al	**1110000**	NA	**910**	NA	NA
Fe	**127000-J**	**3640**	**3160**	**2140**	**1950**
Mn	**368-J**	11.8	10.9	7.5	5.2

OLD-OU2-13B				
36 to 31'	6/26/99	3/26/02	9/11/02	3/25/03
Fe	1210	**1550/1510**	**1230**	**1400**

OLD-OU2-14B				
29 to 34'	7/15/99	3/29/02	9/11/02	3/25/03
Fe	**2520-J**	**1240**	**1790**	**2250**

OLD-OU2-DP01B			
17 to 22'	3/26/02	9/12/02	3/26/03
Fe	**2280**	**1560**	**1300**
VC	**1-J**	**<2**	<0.5

OLD-OU2-28B			
27 to 32'	3/24/02	9/11/02	3/25/03
B	**3**	**9**	**3.8**
Fe	**4920**	**7500**	**4660**
VC	**2**	**6**	**7.4**

OLD-OU2-26C	
55 to 60'	8/2/99
Fe	**4670**

OLD-OU2-18B					
29 to 34'	7/16/99	6/19/02	9/12/02	12/16/02	3/25/03
Fe	**1580-J**	**1280/1330**	917/955	979/1010	1020/915
cDCE	66-J	5/6	34-J/20-J	35-J/ **75-J**	**135/163**
PCE	**34-J**	**3/4**	**9/10**	**17/21**	**80.1/74**
TCE	**1200-J**	**110/120**	**180/190**	**580-J/1100-J**	**2850/3550**
VC	**20-J**	**<2/1-J**	**4/3**	**22/28**	**42/37.1**

OLD-OU2-32B				
25 to 30'	6/19/02	9/12/02	12/16/02	3/25/03
Fe	**1410**	**1590**	**1600**	**1250**
TCE	**19**	**10**	**9.1**	**7.6**

OLD-OU2-25C	
68 to 72'	8/2/99
Fe	**3340**
Mn	**98**

OLD-OU2-33B				
25 to 30'	6/19/02	9/12/02	12/17/02	3/25/03
B	**2/2**	**1/1**	**1.6**	**3/2.6**
Fe	**4000/3900**	**2640/2170**	**1810**	**1870/1780**
TCE	**50/51**	**65/62**	**67**	**76.3/67.4**
VC	**3/3**	**4/4**	**7**	**5.8/5.6**

OLD-OU2-16B	
31 to 36'	6/28/99
Fe	**2380**

OLD-OU2-17B				
29 to 34'	6/29/99	3/26/02	9/12/02	3/25/03
Fe	886	**1460**	**1270**	**1430**

OLD-OU2-20B				
35 to 40'	7/21/99	3/26/02	9/12/02	3/26/03
Fe	1150	**2730**	**1720**	379

OLD-OU2-19B	
31 to 36'	6/29/99
Fe	**2190**

OLD-OU2-DP02B				
17 to 22'	3/25/02	9/12/02	12/16/02	3/26/03
cDCE	<2	<1	25	60.4/**74.2**
PCE	<1	<1/<1	**3.6**	**30.3/36.9**
TCE	<1	<1/<1	**440**	**1270/1180**
VC	**<2**	**<2/<2**	**14**	**16-J/17.4**

LEGEND

INTERMEDIATE MONITORING WELL	OLD-OU2-09B
DEEP MONITORING WELL	OLD-OU2-25C
DRIVE POINT	OLD-OU2-DP02B
INDICATES WELL SAMPLED MARCH 2003	*
ESTIMATED VALUE	J
FILTERED	F
NOT ANALYZED	NA

WELL ID — OLD-02-21B
SCREEN INTERVAL TO NEAREST FOOT — 56 TO 61'
ANALYTE — BENZENE
SAMPLE COLLECTION DATE — 12/7/98 (3) | 7/16/99 | 10/25/99
REFER TO NOTE INDICATED
DUPLICATE SAMPLE — 50/56
ANALYTE CONCENTRATION a,b — 40/40 | 34

a-GROUNDWATER CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
b-BOLD CONCENTRATION INDICATES EXCEEDANCE

NOTES

1) DATA ARE SHOWN FOR LOCATIONS WITH PAST OR CURRENT EXCEEDANCES.
2) SEE TABLE 5 FOR DISSOLVED VERSUS TOTAL Fe AND Mn.
3) REMOVED FROM SAMPLE PLAN DUE TO TURBIDITY. SEE REMEDIAL INVESTIGATION FOR DETAILS OF SAMPLES COLLECTED PRIOR TO MARCH 2002.
4) DATA FROM OLD-OU2-06B PRIOR TO REPLACEMENT.
5) DATA FROM OLD-OU2-11B PRIOR TO REPLACEMENT.
6) HISTORICAL DATA PRIOR TO MARCH 2002 ARE PHASE III RESULTS FROM THE OU2 REMEDIAL INVESTIGATION. IF A WELL WAS NOT SAMPLED DURING PHASE III, DATA FROM PHASE II ARE PROVIDED.

SCREENING CRITERIA

ABBREV.	ANALYTE	GCTL	BGSV
Al	ALUMINUM	200	4067
B	BENZENE	1	---
BDCM	BROMODICHLOROMETHANE	0.6	---
cDCE	cis-1,2-DICHLOROETHENE	70	---
CDBM	CHLORODIBROMOMETHANE	0.4	---
CFM	CHLOROFORM	5.7	---
Fe (2)	IRON (2)	300	1227
Mn (2)	MANGANESE (2)	50	17
PCE	TETRACHLOROETHENE	3	---
TCE	TRICHLOROETHENE	3	---
VC	VINYL CHLORIDE	1	---

GCTL=GROUNDWATER CLEANUP TARGET LEVEL
BGSV=BACKGROUND SCREENING VALUE

FIGURE 4
GROUNDWATER EXCEEDANCES
INTERMEDIATE AND HAWTHORN AQUIFER ZONES
QUARTERLY SAMPLING - MARCH 2003
OPERABLE UNIT 2 - McCOY ANNEX

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

TABLES

No.

1 Water-Level Elevations Summary
2 Natural Attenuation Parameter Results – March 2003
3 Detections in Groundwater – March 2003
4 Detections in Surface Water – March 2003
5 Historical Detections in Groundwater
6 Historical Detections in Surface Water
7 Validated Groundwater Analytical Results – March 2003
8 Validated Surface Water Analytical Results – March 2003

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 4/13/98[b]	Water Elevation on 4/13/98[a]	Depth to Water on 4/29/98[b]	Water Elevation on 4/29/98[a]	Depth to Water on 8/4/98[b]	Water Elevation on 8/4/98[a]	Depth to Water on 12/11/01[b]	Water Elevation on 12/11/01[a]	Depth to Water on 3/23/02[b]	Water Elevation on 3/23/02[a]
SHALLOW PIEZOMETERS													
P1	P	5-15	90.44	3.80	87.62	4.61	86.81	3.81	87.61	NM	NM	5.26	85.18
P2	P	5-15	89.15	5.23	84.90	5.66	84.47	5.20	84.93	NM	NM	6.21	82.94
P3 S	P	8-18	91.23	4.66	87.55	5.47	86.74	3.90	88.31	NM	NM	NM	NM
P4	P	5-15	87.40	2.72	85.66	3.65	84.73	3.34	85.04	NM	NM	4.99	82.41
P5	P	7-17	92.50	6.54	86.94	7.40	86.08	7.75	85.73	NM	NM	8.88	83.62
P6	P	7-17	93.14	8.40	85.72	9.16	84.96	9.21	84.91	NM	NM	10.8	82.34
P7	P	7-17	92.71	NM	NM	7.14	86.55	6.43	87.26	NM	NM	NM	NM
P8 N	P	7-17	92.81	6.74	87.05	7.12	86.67	7.09	86.70	NM	NM	7.44	85.37
P9	P	5-15	89.09	4.90	85.17	5.25	84.82	4.85	85.22	NM	NM	5.54	83.55
P10	P	5-15	90.66	3.56	88.08	4.35	87.29	5.70	85.94	NM	NM	5.79	84.87
P11	P	8-18	91.21	5.10	87.09	7.61	84.58	7.75	84.44	NM	NM	8.14	83.07
P12	P	8-18	89.84	6.26	84.56	7.02	83.80	NM	NM	NM	NM	Buried	Buried
P13	P	7-17	90.31	6.50	84.79	7.30	83.99	6.87	84.42	NM	NM	8.51	81.80
P14 E	P	5-15	88.32	2.80	86.50	3.74	85.56	4.46	84.84	NM	NM	5.48	82.84
P15	P	5-15	89.98	3.71	87.25	4.42	86.54	4.45	86.51	NM	NM	4.97	85.01
P16	P	5-15	91.14	6.86	85.26	7.43	84.69	7.17	84.95	NM	NM	7.85	83.29
P17	P	7-17	93.86	6.67	88.17	7.75	87.09	9.95	84.89	NM	NM	Destroyed	Destroyed
P18	P	8-18	95.27	11.40	84.85	12.50	83.75	14.82	81.43	NM	NM	14.34	80.93
P19	P	7-17	91.82	6.82	85.98	7.62	85.18	8.60	84.20	NM	NM	8.96	82.86
P20	P	5-15	90.42	5.72	85.68	6.31	85.09	6.70	84.70	NM	NM	6.92	83.50
P21 N	P	7-17	92.32	11.40	81.90	12.20	81.10	13.45	79.85	NM	NM	13.17	79.15
P22 S	P	7-17	91.09			5.46	86.61	4.65	87.42	NM	NM	NM	NM
P23	P	7-17	92.50			6.00	87.48	9.02	84.46	NM	NM	8.32	84.18
SHALLOW MONITORING WELLS													
OLD-OU2-01A	2" well	4-14	90.06					7.12	83.92	8.05	82.01	Replaced (34A)	Replaced (34A)
OLD-OU2-02A	2" well	7-17	91.55					8.90	83.63	9.76	81.79	10.31	81.24
OLD-OU2-03A	2" well	7-17	89.21					6.13	84.06	7.36	81.85	7.69	81.52
OLD-OU2-04A	2" well	8-18	87.88					5.42	83.44	NM	NM	8.92	78.96
OLD-OU2-05A	2" well	8-18	91.93					10.19	82.72	11.31	80.62	11.61	80.32
OLD-OU2-06A	2" well	7-17	**89.36**					6.79	83.57	7.95	81.41	8.32	81.04
OLD-OU2-07A	2" well	6-16	89.72					8.18	82.52	NM	NM	Replaced (36A)	Replaced (36A)
OLD-OU2-08A	2" well	8-18	91.50					8.70	83.78	9.20	82.30	9.41	82.09
OLD-OU2-09A	2" well	7-17	91.78					7.88	84.88	8.72	83.06	8.84	82.94
OLD-OU2-10A	2" well	5-15	90.08					4.60	86.46	NM	NM	4.63	85.45
OLD-OU2-11A	2" well	7-17	**92.13**					8.75	84.35	9.30	82.83	9.44	82.69
OLD-OU2-12A	2" well	5-15	90.54					7.40	84.12	8.25	82.29	8.43	82.11
OLD-OU2-13A	2" well	4-14	91.11					7.19	84.90	NM	NM	8.22	82.89
OLD-OU2-14A	2" well	5-15	90.10					7.38	83.70	8.25	81.85	8.46	81.64
OLD-OU2-15A	2" well	5-15	90.62					6.60	85.00	NM	NM	6.75	83.87
OLD-OU2-16A	2" well	4-14	90.44					6.40	85.02	NM	NM	5.77	84.67
OLD-OU2-17A	2" well	4-14	90.26					7.05	84.19	NM	NM	7.66	82.60
OLD-OU2-18A	2" well	4-14	90.20					8.27	82.91	8.45	81.75	8.58	81.62
OLD-OU2-19A	2" well	4-14	89.54					7.93	82.59	NM	NM	8.59	80.95
OLD-OU2-20A	2" well	5-15	90.93					10.65	81.26	9.14	81.79	9.9	81.03
OLD-OU2-21A	2" well	7-17	93.79					11.35	83.42	9.34	84.45	10.73	83.06
OLD-OU2-22A	2" well	7-17	91.43					4.85	87.56	5.87	85.56	6.16	85.27
OLD-OU2-27A	2" well	6-16	95.31							11.35	83.96	12.93	82.38

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 4/13/98[b]	Water Elevation on 4/13/98[a]	Depth to Water on 4/29/98[b]	Water Elevation on 4/29/98[a]	Depth to Water on 8/4/98[b]	Water Elevation on 8/4/98[a]	Depth to Water on 12/11/01[b]	Water Elevation on 12/11/01[a]	Depth to Water on 3/23/02[b]	Water Elevation on 3/23/02[a]
SHALLOW MONITORING WELLS (Cont.)													
OLD-OU2-28A	2" well	6-16	94.53							12.21	82.32	13.11	81.42
OLD-OU2-29A	1" well	5-15	**86.99**							NM	NM	3.65	83.34
OLD-OU2-30A	1" well	5-15	**88.68**							NM	NM	5.84	82.84
OLD-OU2-31A	1" well	5-15	**93.81**							NM	NM	11.72	82.09
OLD-OU2-32A	1" well	5-15	**93.94**							NM	NM	12.18	81.76
OLD-OU2-33A	1" well	5-15	**93.70**							NM	NM	12.45	81.25
OLD-OU2-34A	1" well	5-15	**90.06**							NM	NM	8.2	81.86
OLD-OU2-36A	1" well	5-15	**89.67**							NM	NM	9.24	80.43
OLD-OU2-DP01A	1 1/4" well	4-8	82.68							2.16	80.52	2.27	80.41
OLD-OU2-DP02A	1 1/4" well	4-8	82.53							2.64	79.89	2.56	79.97
INTERMEDIATE PIEZOMETERS													
P21 S	P	47-52	92.34	11.72	81.60	12.00	81.32	12.75	80.57	NM	NM	12.89	79.45
INTERMEDIATE MONITORING WELLS													
OLD-OU2-01B	2" well	24-29	90.05					6.32	84.71	7.57	82.48	7.84	82.21
OLD-OU2-02B	2" well	27-32	91.77					8.33	84.42	9.55	82.22	10.13	81.64
OLD-OU2-03B	2" well	27-32	89.17					5.89	84.26	7.06	82.11	7.65	81.52
OLD-OU2-04B	2" well	27-32	87.90					5.48	83.40	NM	NM	7.1	80.80
OLD-OU2-05B	2" well	41-46	92.05					9.70	83.33	10.66	81.39	11.15	80.90
OLD-OU2-06B	2" well	36-41	88.91					7.18	82.71	4.36	84.55	Replaced (35B)	Replaced (35B)
OLD-OU2-07B	2" well	26-31	89.73					6.70	84.01	NM	NM	7.7	82.03
OLD-OU2-08B	2" well	35-40	91.44					8.60	83.82	9.08	82.36	9.31	82.13
OLD-OU2-09B	2" well	35-40	91.83					8.00	84.81	8.74	83.09	8.92	82.91
OLD-OU2-10B	2" well	31-36	90.28					5.85	85.41	NM	NM	4.9	85.38
OLD-OU2-11B	2" well	30-35	92.35					8.59	84.70	9.05	83.30	Replaced (37B)	Replaced (37B)
OLD-OU2-12B	2" well	30-35	90.40					NM	NM	8.10	82.30	8.24	82.16
OLD-OU2-13B	2" well	26-31	91.08					7.18	84.88	NM	NM	8.21	82.87
OLD-OU2-14B	2" well	29-34	89.98					7.24	83.72	8.10	81.88	8.32	81.66
OLD-OU2-15B	2" well	35-40	90.56					5.90	85.64	NM	NM	6.71	83.85
OLD-OU2-16B	2" well	31-36	90.39					5.50	85.87	NM	NM	5.81	84.58
OLD-OU2-17B	2" well	29-34	90.22					7.02	84.18	NM	NM	7.67	82.55
OLD-OU2-18B	2" well	29-34	89.89					7.77	83.10	8.25	81.64	8.41	81.48
OLD-OU2-19B	2" well	31-36	89.27					7.65	82.60	NM	NM	8.33	80.94
OLD-OU2-20B	2" well	35-40	90.97					10.85	81.10	8.97	82.00	9.73	81.24
OLD-OU2-21B	2" well	28-33	93.93					11.34	83.57	9.80	84.13	11.05	82.88
OLD-OU2-22B	2" well	27-32	91.44					4.90	87.52	5.65	85.79	5.85	85.59
OLD-OU2-27B	2" well	27-32	95.31							12.08	83.23	13.19	82.12
OLD-OU2-28B	2" well	27-32	94.49							12.17	82.32	13.06	81.43
OLD-OU2-29B	1" well	25-30	**86.79**							NI	NM	3.29	83.50
OLD-OU2-30B	1" well	25-30	**88.31**							NI	NM	6.31	82.00
OLD-OU2-31B	1" well	25-30	**93.53**							NI	NM	11.45	82.08
OLD-OU2-32B	1" well	25-30	**94.06**							NI	NM	12.3	81.76
OLD-OU2-33B	1" well	25-30	**93.42**							NI	NM	12.26	81.16
OLD-OU2-35B	1" well	25-30	**89.21**							NI	NM	8.27	80.94
OLD-OU2-37B	1" well	25-30	**92.67**							NI	NM	9.69	82.98
OLD-OU2-DP01B	1" well	25-30	83.42							2.50	80.92	2.67	80.75
OLD-OU2-DP02B	1" well	25-30	83.70							3.15	80.55	3.31	80.39

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 4/13/98[b]	Water Elevation on 4/13/98[a]	Depth to Water on 4/29/98[b]	Water Elevation on 4/29/98[a]	Depth to Water on 8/4/98[b]	Water Elevation on 8/4/98[a]	Depth to Water on 12/11/01[b]	Water Elevation on 12/11/01[a]	Depth to Water on 3/23/02[b]	Water Elevation on 3/23/02[a]
DEEP PIEZOMETERS													
P3 N	P	43-48	91.16	36.51	55.63	36.75	55.39	38.12	54.02	NM	NM	NM	NM
P8 S	P	43-48	92.89	40.18	53.69	40.91	52.96	Destroyed	NM	NM	NM	Destroyed	Destroyed
P14 W	P	40-45	88.66	31.89	57.75	35.56	54.08	39.10	50.54	NM	NM	42.53	46.13
P22 N	P	48-53	90.78			38.08	53.68	42.80	48.96	NM	NM	NM	NM
DEEP MONITORING WELLS													
OLD-OU2-23C	2" well	49-54	92.00					44.15	48.83	NM	NM	44.33	47.67
OLD-OU2-24C	2" well	59-64	90.97					43.62	48.33	NM	NM	43.47	47.50
OLD-OU2-25C	2" well	68-72	91.17					44.25	47.90	NM	NM	44.55	46.62
OLD-OU2-26C	2" well	55-60	91.25					44.25	47.98	43.72	47.53	44.58	46.67
STAFF GAUGES													
SG1	NA	NA						NM	NM	NM	NM	Destroyed	Destroyed
SG2	NA	NA	Direct Read					5.01	77.99	NM	NM	Destroyed	Destroyed
SG3	NA	NA	Direct Read					NM	NM	NM	NM	Damaged	Damaged
SG4	NA	NA						3.26	84.73	NM	NM	1.89	NC
SG5	NA	NA	Direct Read					5.02	79.04	NM	NM	Destroyed	Destroyed
SG6	NA	NA						NM	NM	NM	NM	Destroyed	Destroyed
SG7	NA	NA	Direct Read					NM	NM	NM	NM	1	NC
SG8	NA	NA	Direct Read					10.01	70.99	NM	NM	Destroyed	Destroyed
SG9	NA	NA	Direct Read					NM	NM	NM	NM	8.6	NC
SG10	NA	NA						4.00	83.98	NM	NM	Destroyed	Destroyed
SG11	NA	NA								NM	NM	Destroyed	Destroyed
GOAA Tank Farm Wells													
MW33		TD= 16.06 ft	93.82	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
CW05		TD= 8.5 ft	92.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 6/18/02[b]	Water Elevation on 6/18/02[a]	Depth to Water on 9/10/02[b]	Water Elevation on 9/10/02[a][c]	Depth to Water on 12/14/02[b]	Water Elevation on 12/14/02[a]	Depth to Water on 3/24/03[b]	Water Elevation on 3/24/03[a][d]
SHALLOW PIEZOMETERS											
P1	P	5-15	90.44	NM	NM	2.36	88.08	NM	NM	NM	NM
P2	P	5-15	89.15	NM	NM	3.87	85.28	2.95	86.20	NM	NM
P3 S	P	8-18	91.23	NM	NM	NM	NM	2.35	88.88	2.49	88.74
P4	P	5-15	87.40	NM	NM	1.27	86.13	0.61	86.79	NM	NM
P5	P	7-17	92.50	NM	NM	4.86	87.64	4.34	88.16	NM	NM
P6	P	7-17	93.14	NM	NM	6.61	86.53	5.60	87.54	7.5	85.64
P7	P	7-17	92.71	NM	NM	4.99	87.72	3.76	88.95	4.5	88.21
P8 N	P	7-17	92.81	NM	NM	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
P9	P	5-15	89.09	NM	NM	3.32	85.77	2.34	86.75	NM	NM
P10	P	5-15	90.66	5.24	85.42	1.62	89.04	1.28	89.38	2.28	88.38
P11	P	8-18	91.21	NM	NM	NM	NM	3.97	87.24	4.25	86.96
P12	P	8-18	89.84	Buried	Buried	Buried	Buried	Buried	Buried	Buried	Buried
P13	P	7-17	90.31	NM	NM	4.77	85.54	3.66	86.65	NM	NM
P14 E	P	5-15	88.32	5.81	82.51	1.23	87.09	0.71	87.61	2.47	85.85
P15	P	5-15	89.98	6.41	83.57	1.62	88.36	0.87	89.11	3.14	86.84
P16	P	5-15	91.14	7.96	83.18	5.22	85.92	4.21	86.93	5.68	85.46
P17	P	7-17	93.86	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
P18	P	8-18	95.27	15.17	80.10	9.75	85.52	9.55	85.72	12.09	83.18
P19	P	7-17	91.82	9.81	82.01	4.57	87.25	3.99	87.83	5.15	86.67
P20	P	5-15	90.42	7.96	82.46	3.82	86.60	2.64	87.78	4.34	86.08
P21 N	P	7-17	92.32	13.24	79.08	10.89	81.43	10.85	81.47	11.77	80.55
P22 S	P	7-17	91.09	NM	NM	3.89	87.20	3.15	87.94	3.22	87.87
P23	P	7-17	92.50	9.40	83.10	4.25	88.25	3.72	88.78	NM	NM
SHALLOW MONITORING WELLS											
OLD-OU2-01A	2" well	4-14	90.06	Replaced (34A)	Replaced (34A)	Replaced (34A)	Replaced (34A)	5.17	84.89	6.86	83.20
OLD-OU2-02A	2" well	7-17	91.55	10.52	81.03	7.89	83.66	6.80	84.75	8.99	82.56
OLD-OU2-03A	2" well	7-17	89.21	7.22	81.99	4.78	84.43	3.90	85.31	4.67	84.54
OLD-OU2-04A	2" well	8-18	87.88	8.96	78.92	NM	NM	2.93	84.95	4.13	83.75
OLD-OU2-05A	2" well	8-18	91.93	11.63	80.30	9.34	82.59	8.66	83.27	10.36	81.57
OLD-OU2-06A	2" well	7-17	**89.36**	8.48	80.88	5.25	84.11	4.73	84.63	5.44	83.92
OLD-OU2-07A	2" well	6-16	89.72	Replaced (36A)	Replaced (36A)	Replaced (36A)	Replaced (36A)	Replaced (36A)	Replaced (36A)	Replaced (36A)	Replaced (36A)
OLD-OU2-08A	2" well	8-18	91.50	9.43	82.07	7.75	83.75	7.19	84.31	8.26	83.24
OLD-OU2-09A	2" well	7-17	91.78	9.05	82.73	6.48	85.30	4.9	86.88	5.61	86.17
OLD-OU2-10A	2" well	5-15	90.08	5.81	84.27	1.87	88.21	1.35	88.73	3.24	86.84
OLD-OU2-11A	2" well	7-17	**92.13**	9.39	82.74	7.11	85.02	5.47	86.66	6.15	85.98
OLD-OU2-12A	2" well	5-15	90.54	8.12	82.42	6.34	84.20	5.13	85.41	6.55	83.99
OLD-OU2-13A	2" well	4-14	91.11	8.24	82.87	5.81	85.30	4.82	86.29	6.12	84.99
OLD-OU2-14A	2" well	5-15	90.10	8.39	81.71	6.14	83.96	4.87	85.23	6.7	83.40
OLD-OU2-15A	2" well	5-15	90.62	7.47	83.15	3.44	87.18	2.21	88.41	4.26	86.36
OLD-OU2-16A	2" well	4-14	90.44	7.17	83.27	2.12	88.32	1.39	89.05	3.35	87.09
OLD-OU2-17A	2" well	4-14	90.26	7.76	82.50	4.98	85.28	3.85	86.41	5.35	84.91
OLD-OU2-18A	2" well	4-14	90.20	8.78	81.42	5.68	84.52	4.7	85.50	6.79	83.41
OLD-OU2-19A	2" well	4-14	89.54	8.89	80.65	6.03	83.51	5.32	84.22	7.39	82.15
OLD-OU2-20A	2" well	5-15	90.93	10.54	80.39	5.62	85.31	4.88	86.05	7.13	83.80
OLD-OU2-21A	2" well	7-17	93.79	11.89	81.90	5.52	88.27	4.82	88.97	6.37	87.42
OLD-OU2-22A	2" well	7-17	91.43	5.33	86.10	4.52	86.91	3.84	87.59	3.82	87.61
OLD-OU2-27A	2" well	6-16	95.31	13.66	81.65	8.2	87.11	9.61	85.70	10.42	84.89

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 6/18/02[b]	Water Elevation on 6/18/02[a]	Depth to Water on 9/10/02[b]	Water Elevation on 9/10/02[a][c]	Depth to Water on 12/14/02[b]	Water Elevation on 12/14/02[a]	Depth to Water on 3/24/03[b]	Water Elevation on 3/24/03[a][d]
SHALLOW MONITORING WELLS (Cont.)											
OLD-OU2-28A	2" well	6-16	94.53	13.49	81.04	7.75	86.78	8.20	86.33	10.03	84.50
OLD-OU2-29A	1" well	5-15	**86.99**	4.05	82.94	NM	NM	Submerged	Submerged	0.5	86.49
OLD-OU2-30A	1" well	5-15	**88.68**	4.01	84.67	1.42	87.26	0.69	87.99	1.58	87.10
OLD-OU2-31A	1" well	5-15	**93.81**	11.57	82.24	9.43	84.38	7.84	85.97	9.93	83.88
OLD-OU2-32A	1" well	5-15	**93.94**	12.79	81.15	6.24	87.70	6.00	87.94	7.11	86.83
OLD-OU2-33A	1" well	5-15	**93.70**	13.12	80.58	7.82	85.88	7.15	86.55	10.1	83.60
OLD-OU2-34A	1" well	5-15	**90.06**	8.21	81.85	5.88	84.18	5.09	84.97	6.85	83.21
OLD-OU2-36A	1" well	5-15	**89.67**	9.17	80.50	7.39	82.28	7.02	82.65	8.24	81.43
OLD-OU2-DP01A	1 1/4" well	4-8	82.68	2.18	80.50	0.85*	81.83	Submerged	Submerged	1.19	81.49
OLD-OU2-DP02A	1 1/4" well	4-8	82.53	2.56	79.97	1.38	81.15	0.1	82.43	1.96	80.57
INTERMEDIATE PIEZOMETERS											
P21 S	P	47-52	92.34	12.96	79.38	10.31	82.03	10.22	82.12	12.32	80.02
INTERMEDIATE MONITORING WELLS											
OLD-OU2-01B	2" well	24-29	90.05	7.82	82.23	5.87	84.18	4.59	85.46	6.00	84.05
OLD-OU2-02B	2" well	27-32	91.77	10.05	81.72	6.6	85.17	6.06	85.71	7.56	84.21
OLD-OU2-03B	2" well	27-32	89.17	7.69	81.48	4.11	85.06	3.62	85.55	5.25	83.92
OLD-OU2-04B	2" well	27-32	87.90	7.01	80.89	3.59	84.31	3.43	84.47	4.7	83.20
OLD-OU2-05B	2" well	41-46	92.05	11.27	80.78	7.95	84.10	7.41	84.64	9.11	82.94
OLD-OU2-06B	2" well	36-41	88.91	Replaced (35B)	Replaced (35B)	Replaced (35B)	Replaced (35B)	Replaced (35B)	Replaced (35B)	Replaced (35B)	Replaced (35B)
OLD-OU2-07B	2" well	26-31	89.73	8.18	81.55	4.96	84.77	4.26	85.47	6.05	83.68
OLD-OU2-08B	2" well	35-40	91.44	9.35	82.09	7.6	83.84	7.03	84.41	8.15	83.29
OLD-OU2-09B	2" well	35-40	91.83	8.99	82.84	6.78	85.05	5.82	86.01	6.78	85.05
OLD-OU2-10B	2" well	31-36	90.28	6.04	84.24	2.43	87.85	1.75	88.53	3.51	86.77
OLD-OU2-11B	2" well	30-35	92.35	Replaced (37B)	Replaced (37B)	Replaced (37B)	Replaced (37B)	Replaced (37B)	Replaced (37B)	Replaced (37B)	Replaced (37B)
OLD-OU2-12B	2" well	30-35	90.40	7.95	82.45	6.18	84.22	5	85.40	6.38	84.02
OLD-OU2-13B	2" well	26-31	91.08	NM	Plugged	5.83	85.25	4.9	86.18	6.2	84.88
OLD-OU2-14B	2" well	29-34	89.98	8.27	81.71	5.96	84.02	4.93	85.05	6.55	83.43
OLD-OU2-15B	2" well	35-40	90.56	7.4	83.16	3.42	87.14	2.21	88.35	4.23	86.33
OLD-OU2-16B	2" well	31-36	90.39	7.19	83.20	2.32	88.07	1.56	88.83	3.45	86.94
OLD-OU2-17B	2" well	29-34	90.22	7.84	82.38	5.00	85.22	3.95	86.27	5.43	84.79
OLD-OU2-18B	2" well	29-34	89.89	8.6	81.29	5.94	83.95	5.4	84.49	6.73	83.16
OLD-OU2-19B	2" well	31-36	89.27	8.65	80.62	5.83	83.44	5.13	84.14	7.11	82.16
OLD-OU2-20B	2" well	35-40	90.97	10.19	80.78	5.9	85.07	5.44	85.53	7.49	83.48
OLD-OU2-21B	2" well	28-33	93.93	11.94	81.99	6.21	87.72	5.63	88.30	7.31	86.62
OLD-OU2-22B	2" well	27-32	91.44	6.05	85.39	3.59	87.85	2.73	88.71	2.93	88.51
OLD-OU2-27B	2" well	27-32	95.31	13.59	81.72	8.25	87.06	8.68	86.63	10.2	85.11
OLD-OU2-28B	2" well	27-32	94.49	13.44	81.05	7.72	86.77	8.21	86.28	9.97	84.52
OLD-OU2-29B	1" well	25-30	**86.79**	3.63	83.16	NM	NM	NM	NM	0.2	86.59
OLD-OU2-30B	1" well	25-30	**88.31**	6.44	81.87	2.51	85.80	1.86	86.45	3.62	84.69
OLD-OU2-31B	1" well	25-30	**93.53**	11.27	82.26	9.16	84.37	7.65	85.88	9.69	83.84
OLD-OU2-32B	1" well	25-30	**94.06**	12.97	81.09	6.5	87.56	6.63	87.43	8.93	85.13
OLD-OU2-33B	1" well	25-30	**93.42**	12.77	80.65	8.44	84.98	7.89	85.53	10.11	83.31
OLD-OU2-35B	1" well	25-30	**89.21**	8.47	80.74	4.96	84.25	4.30	84.91	6.05	83.16
OLD-OU2-37B	1" well	25-30	**92.67**	9.54	83.13	7.53	85.14	6.95	85.72	7.57	85.10
OLD-OU2-DP01B	1" well	25-30	83.42	2.62	80.80	0.85*	82.57	0.2	83.22	1.13	82.29
OLD-OU2-DP02B	1" well	25-30	83.70	3.41	80.29	1.23	82.47	0.75	82.95	1.89	81.81

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Depth to Water on 6/18/02[b]	Water Elevation on 6/18/02[a]	Depth to Water on 9/10/02[b]	Water Elevation on 9/10/02[a][c]	Depth to Water on 12/14/02[b]	Water Elevation on 12/14/02[a]	Depth to Water on 3/24/03[b]	Water Elevation on 3/24/03[a][d]
DEEP PIEZOMETERS											
P3 N	P	43-48	91.16	NM	NM	NM	NM	40.69	50.47	39.95	51.21
P8 S	P	43-48	92.89	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
P14 W	P	40-45	88.66	45.1	43.56	37.74	50.92	39.00	49.66	38.08	50.58
P22 N	P	48-53	90.78	NM	NM	41.26	49.52	40.74	50.04	39.63	51.15
DEEP MONITORING WELLS											
OLD-OU2-23C	2" well	49-54	92.00	46.83	45.17	42.46	49.54	41.95	50.05	40.88	51.12
OLD-OU2-24C	2" well	59-64	90.97	46.1	44.87	40.52	50.45	40.72	50.25	39.66	51.31
OLD-OU2-25C	2" well	68-72	91.17	46.75	44.42	40.4	50.77	41.01	50.16	40.18	50.99
OLD-OU2-26C	2" well	55-60	91.25	46.8	44.45	40.42	50.83	41.03	50.22	40.22	51.03
STAFF GAUGES											
SG1	NA	NA		Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
SG2	NA	NA	Direct Read	NA	81.3	NA	81.1	NA	81.3	NA	80.95
SG3	NA	NA	Direct Read	Damaged	Damaged	NA	80.5	NA	80	NA	80.8
SG4	NA	NA		Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
SG5	NA	NA	Direct Read	NA	81.6	NA	82.35	NA	81.92	NA	81.4
SG6	NA	NA		Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
SG7	NA	NA	Direct Read	NM	NM	NA	83.3	NA	83.54	NA	82.85
SG8	NA	NA	Direct Read	NA	78.5	NA	80.1	NA	78.9	NA	78.9
SG9	NA	NA	Direct Read	NM	NM	NA	81.85	NA	81.94	NA	81.28
SG10	NA	NA		Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
SG11	NA	NA		Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed	Destroyed
GOAA Tank Farm Wells											
MW33		TD= 16.06 ft	93.82	NM	NM	6.72	87.10	7.39	86.43	8.29	85.53
CW05		TD= 8.5 ft	92.02	NM	NM	4.99	87.03	5.65	86.37	6.00	86.02

[a] Elevation in feet above mean sea level.
[b] Depth in feet below top of casing.
[c] Staff guages measured on 9/17/02. Water levels for OLD-OU2-DP01A and OLD-OU2-DP01B measured on 9/12/02.
[d] Staff guages measured on 3/25/03. Staff guage 7 measured on 3/26/03.
A blank cell indicates the well or gauge had not yet been installed as of the measurement date.
NA - Not Applicable
NC - Not calculated
NM - Not measured
P - piezometer
NOTE: Based on comparison of new and old TOC elevations a temporary adjustment of 0.98 feet (to convert NGVD29 to NAVD88) was applied to all previously installed wells that were not re-surveyed on 4/15/02 at OU 2. The adjustment was calculated based on survey of 2 previously installed wells on 4/15/02. TOC elevations will be adjusted again if necessary after more wells are re-surveyed.
Bold entries in " TOC" were surveyed in 2002 using NAVD88. Non-bold entries were calculated using 0.98 feet delta. Calculations prior to 3/02 use OLD TOC Elevations. The water elevations in March 2002 are calculated using the new adjusted TOC Elevations.

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-02A				
Sample ID		Florida GCTL[a]	NTCOU2G02A04	NTCOU2G02A05	NTCOU2G02A06	NTCOU2G02A07	NTCOU2G02A08
Sample Date			3/27/02	6/19/02	9/11/02	12/16/02	3/26/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	30	30	33	27	24
Dissolved Organic Carbon		*	25	24	91	25	
Nitrate	14797-55-8	10,000					NA
Nitrite	14797-65-0	*					
Orthophosphate		*					0.26
Sulfate	14808-79-8	250,000			2	0.46	
Total Alkalinity		*	30	40	330	390	313
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	92.3	140.4	474.5	433.7	230.6
Hydrogen (nm/L)	1333-74-0	*	2.9	4.6	1.4	1	1.9 J
Nitrogen	7727-37-9	*	8.9	7.8	6.2	4.3	3.2
Oxygen	7782-44-7	*	0.69	0.25	0.58	0.17	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*		0.24	0.23		0.18
Ethene	74-85-1	*				0.03	
Methane	72-82-8	*	3998.1	3944.4	3307.4	3627.1	3868.8
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		143.9	156.3	50.6	22.6	38.8
Dissolved Oxygen			3	2	4	6	0.80
Dissolved Oxygen[b]			19.99	1.88	0.15	0.51	0.58
Ferrous Iron			3	3.9	2.8	2.4	5.0
Hydrogen Sulfide	7783-06-4		0.3				0.10
Redox Potential (mV)[b]			-47	-94	-215	-123	-93.0
Sulfide			NA				

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-02B				
Sample ID		Florida GCTL[a]	NTCOU2G02B04	NTCOU2G02B05	NTCOU2G02B06	NTCOU2G02B07	NTCOU2G02B08
Sample Date			3/27/02	6/19/02	9/11/02	12/16/02	3/26/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	40	40	41	43	54.2
Dissolved Organic Carbon		*	9	15	19	5.1	NA
Nitrate	14797-55-8	10,000		0.08			
Nitrite	14797-65-0	*					
Orthophosphate		*				0.69	1.5
Sulfate	14808-79-8	250,000	14	12	10	15	24.4
Total Alkalinity		*	NA			13	16
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	140.9	126.5	186.4	185.2	151.2
Hydrogen (nm/L)	1333-74-0	*	1.9	1.8	1.7	0.7	1.4 J
Nitrogen	7727-37-9	*	7.6	5.8	11.9	9.1	6.6
Oxygen	7782-44-7	*	0.38	0.71	1.24	0.28	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*		0.02	0.03		
Ethene	74-85-1	*		0.02		0.03	
Methane	72-82-8	*	202.6	217.2	471.1	202.6	97.6
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		179.4	261.7	30	30.2	47.2
Dissolved Oxygen			1	2	0.2	3	0.40
Dissolved Oxygen[b]			3.54	0.18	0.91	0.96	0.70
Ferrous Iron			2.4	2.8	2.2	1.8	4.2
Hydrogen Sulfide	7783-06-4		2	0.5	0.1	0.4	0.2
Redox Potential (mV)[b]			-31	-44	6.82	-138	76.0
Sulfide			NA	0.27	0.25	0.24	0.1

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-03A					
Sample ID		Florida GCTL[a]	NTCOU2G03A04	NTCOU2G03A05	NTCOU2G03A05-D	NTCOU2G03A06	NTCOU2G03A06-D	NTCOU2G03A07
Sample Date			3/26/02	6/19/02	6/19/02	9/11/02	9/11/02	12/16/02
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000	16	120	120	50	50	5.9
Dissolved Organic Carbon		*	30	84	85	42		19
Nitrate	14797-55-8	10,000	4.3					
Nitrite	14797-65-0	*						
Orthophosphate		*						
Sulfate	14808-79-8	250,000	72	100	110			3.2
Total Alkalinity		*	220	220	220	90	89	32
Dissolved Gases (mg/L)					NA		NA	
Carbon Dioxide	124-38-9	*	320.2	345.4		141.7		75.2
Hydrogen (nm/L)	1333-74-0	*	1.1	1.6		2.1		1
Nitrogen	7727-37-9	*	6.3	8.9		11.8		9
Oxygen	7782-44-7	*	0.14J	0.44		0.45		
Volatiles Gaseous (µg/L)					NA		NA	
Ethane	74-84-0	*	0.26	0.29		0.04		
Ethene	74-85-1	*	0.26	0.25				0.03
Methane	72-82-8	*	3060.8	3815.1		768.9		2445.7
Field Parameters (mg/L)					NA		NA	
Carbon Dioxide	124-38-9		343.8	153.2		55.4		52.2
Dissolved Oxygen			4	4		4		0.5
Dissolved Oxygen[b]			7.57	1.8		0.51		0.59
Ferrous Iron			1.4	2		2.8		2
Hydrogen Sulfide	7783-06-4			2		0.1		0.1
Redox Potential (mV)[b]			36	37		-117		35
Sulfide			NA	0.75		0.25		

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-03A		OLD-OU2-03B		
Sample ID		Florida GCTL[a]	NTCOU2G03A08	NTCOU2G03A08-D	NTCOU2G03B04	NTCOU2G03B05	NTCOU2G03B06
Sample Date			3/26/03	3/26/03	3/26/02	6/19/02	9/11/02
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000			52	51	40
Dissolved Organic Carbon		*	NA	NA	24	28	26
Nitrate	14797-55-8	10,000	0.13	0.11			
Nitrite	14797-65-0	*					
Orthophosphate		*					
Sulfate	14808-79-8	250,000			8.1	8.3	9.3
Total Alkalinity		*	70.5	77	100	100	78
Dissolved Gases (mg/L)				NA			
Carbon Dioxide	124-38-9	*	126.9		126.2	174.7	422.1
Hydrogen (nm/L)	1333-74-0	*	2.2 J		1.4	1.7	2.2
Nitrogen	7727-37-9	*	6.9		8.1	10.3	6.5
Oxygen	7782-44-7	*				0.57	0.32
Volatiles Gaseous (µg/L)				NA			
Ethane	74-84-0	*	0.15		0.05	0.06	0.3
Ethene	74-85-1	*			0.03	0.02	0.2
Methane	72-82-8	*	3729.6		734.7	1069.1	5672.6
Field Parameters (mg/L)				NA			
Carbon Dioxide	124-38-9		T		T	113.2	45.2
Dissolved Oxygen			T		T	3	2
Dissolved Oxygen[b]			1.28		0.69	0.49	0.16
Ferrous Iron			T		T	3.2	3.2
Hydrogen Sulfide	7783-06-4		0.10		0.1		
Redox Potential (mV)[b]			-19.0		-33	-19	-201
Sulfide			T		NA	0.25	

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-03B			OLD-OU2-05A	OLD-OU2-05B
Sample ID		Florida GCTL[a]	NTCOU2G03B07	NTCOU2G03B07-D	NTCOU2G03B08	NTCOU2G05A04	NTCOU2G05B04
Sample Date			12/16/02	12/16/02	3/26/03	3/27/02	3/27/02
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	41	40	49.6	40	13
Dissolved Organic Carbon		*	7.8	7.6	NA	NA	NA
Nitrate	14797-55-8	10,000					
Nitrite	14797-65-0	*					
Orthophosphate		*		0.14			
Sulfate	14808-79-8	250,000	12	12		2	
Total Alkalinity		*	75	75	81	NA	NA
Dissolved Gases (mg/L)				NA		NA	NA
Carbon Dioxide	124-38-9	*	377.8		184.2		
Hydrogen (nm/L)	1333-74-0	*	0.8		1 J		
Nitrogen	7727-37-9	*	6		5.7		
Oxygen	7782-44-7	*	0.2				
Volatiles Gaseous (µg/L)				NA		NA	NA
Ethane	74-84-0	*			0.03		
Ethene	74-85-1	*	0.18				
Methane	72-82-8	*	3143.8		881.2		
Field Parameters (mg/L)				NA			
Carbon Dioxide	124-38-9		39.6		42.0	164.6	89.8
Dissolved Oxygen			1		0.40	3	3
Dissolved Oxygen[b]			0.53		0.51	12.43	2.16
Ferrous Iron			1.6		3.0	2.4	1.4
Hydrogen Sulfide	7783-06-4		0.1			5	5
Redox Potential (mV)[b]			-122		51.0	18	-62
Sulfide					0.10	NA	NA

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-18B					
Sample ID		Florida GCTL[a]	NTCOU2G18B04	NTCOU2G18B05	NTCOU2G18B05-D	NTCOU2G18B05	NTCOU2G18B06	NTCOU2G18B06-D
Sample Date			3/25/02	6/19/02	6/19/02	6/21/02	9/12/02	9/12/02
Water Chemistry (mg/L)							**NA**	**NA**
Chloride	16887-00-6	250,000	13	NA	NA	8 J		
Dissolved Organic Carbon		*	7.8	12	10	NA		
Nitrate	14797-55-8	10,000		NA	NA			
Nitrite	14797-65-0	*		NA	NA			
Orthophosphate		*						
Sulfate	14808-79-8	250,000	1	NA	NA	2		
Total Alkalinity		*		NA	NA	NA		
Dissolved Gases (mg/L)					**NA**	**NA**		**NA**
Carbon Dioxide	124-38-9	*	131.7	147.1			148.2	
Hydrogen (nm/L)	1333-74-0	*	1.4	2.2			2.8	
Nitrogen	7727-37-9	*	9.7	11.9			12.3	
Oxygen	7782-44-7	*	0.45	0.36			0.81	
Volatiles Gaseous (µg/L)					**NA**	**NA**		**NA**
Ethane	74-84-0	*	0.12	0.09			0.5	
Ethene	74-85-1	*	1.03	1.12			1.53	
Methane	72-82-8	*	461.3	395.4			768.9	
Field Parameters (mg/L)					**NA**	**NA**		**NA**
Carbon Dioxide	124-38-9		14.3	241.8			35.6	
Dissolved Oxygen			2	1			3	
Dissolved Oxygen[b]			7.62				3.25	
Ferrous Iron			1.8	2			1.2	
Hydrogen Sulfide	7783-06-4		5	5			1	
Redox Potential (mV)[b]			-135	-142			-142	
Sulfide			NA	1.75			1	

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-18B				OLD-OU2-20A
Sample ID		Florida GCTL[a]	NTCOU2G18B07	NTCOU2G18B07-D	NTCOU2G18B08	NTCOU2G18B08-D	NTCOU2G20A08
Sample Date			12/16/02	12/16/02	3/25/03	3/25/03	3/26/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	8.4	8.7			
Dissolved Organic Carbon		*	NA	NA	NA	NA	4.9
Nitrate	14797-55-8	10,000					
Nitrite	14797-65-0	*					
Orthophosphate		*	1.1	1.1	1.4	1.2	
Sulfate	14808-79-8	250,000	3.7	3.5			
Total Alkalinity		*	8.8 J	4.9 J	33.5 J	17 J	NA
Dissolved Gases (mg/L)				**NA**		**NA**	**NA**
Carbon Dioxide	124-38-9	*	171.2		177.6		
Hydrogen (nm/L)	1333-74-0	*	1.3		2.3 J		
Nitrogen	7727-37-9	*	9.9		4.7		
Oxygen	7782-44-7	*	0.45				
Volatiles Gaseous (µg/L)				**NA**		**NA**	**NA**
Ethane	74-84-0	*	0.25		0.43		
Ethene	74-85-1	*	3.35		5.11		
Methane	72-82-8	*	988.5		795.7		
Field Parameters (mg/L)				**NA**		**NA**	
Carbon Dioxide	124-38-9		48		57.6		NA
Dissolved Oxygen			1		1.50		NA
Dissolved Oxygen[b]			1.15		0.20		3.47
Ferrous Iron			0.6		1.0		NA
Hydrogen Sulfide	7783-06-4		1.5		1.0		NA
Redox Potential (mV)[b]			-178		-141.0		108
Sulfide			1.1		0.70		NA

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-20B	OLD-OU2-21A				
Sample ID		Florida GCTL[a]	NTCOU2G20B08	NTCOU2G21A04	NTCOU2G21A05	NTCOU2G21A06	NTCOU2G21A07	NTCOU2G21A08
Sample Date			3/26/03	3/26/02	6/20/02	9/13/02	12/16/02	3/26/03
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000		11	10	5	8.6	
Dissolved Organic Carbon		*	5.2	4	6.9	13	1.2	2.6
Nitrate	14797-55-8	10,000						
Nitrite	14797-65-0	*						
Orthophosphate		*						
Sulfate	14808-79-8	250,000	20	4	9.1	3.2	2.9	
Total Alkalinity		*	28.5	NA	NA		NA	NA
Dissolved Gases (mg/L)			**NA**					
Carbon Dioxide	124-38-9	*		72.6	57.7	69.2	66.5	59.1
Hydrogen (nm/L)	1333-74-0	*		1.6	1.6	12.3	4.7	1.5 J
Nitrogen	7727-37-9	*		11	10.6	10.8	9.9	8.1
Oxygen	7782-44-7	*		0.93	0.33	0.47	0.63	0.5
Volatiles Gaseous (µg/L)			**NA**					
Ethane	74-84-0	*		0.01		0.04		
Ethene	74-85-1	*				0.11		
Methane	72-82-8	*		236.8	219.7	1047.1	197.7	
Field Parameters (mg/L)								
Carbon Dioxide	124-38-9		NA	92.8	321.5	50.6	35.6	37.0
Dissolved Oxygen			NA	3	1	3	1.	0.80
Dissolved Oxygen[b]			0.89	5.51		1.87	0.96	3.87
Ferrous Iron			NA	0.9	2.2	1.2	0.2	3.20
Hydrogen Sulfide	7783-06-4		NA	0.7	0.3	1.0	0.1	
Redox Potential (mV)[b]			-54	55	57	-122	-138	86.0
Sulfide			NA	NA	0.1	1.1		0.10

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-21B				
Sample ID		Florida GCTL[a]	NTCOU2G21B04	NTCOU2G21B05	NTCOU2G21B06	NTCOU2G21B07	NTCOU2G21B08
Sample Date			3/26/02	6/20/02	9/13/02	12/17/02	3/26/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	20	10	16	17	
Dissolved Organic Carbon		*	11	12	15	3.5	11.5
Nitrate	14797-55-8	10,000					
Nitrite	14797-65-0	*					
Orthophosphate		*				1.6	2.1
Sulfate	14808-79-8	250,000	1			2.3	
Total Alkalinity		*	30	30	30	20	25.5
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	137.9	90.9	203.3	196.2	108.2
Hydrogen (nm/L)	1333-74-0	*	1.8	2.3	4.3	5.9	50 J
Nitrogen	7727-37-9	*	6.8	3.3	10.9	9.5	5.9
Oxygen	7782-44-7	*	0.46		0.34	0.83	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.21	0.07	0.08		0.09
Ethene	74-85-1	*		0.03	0.15	0.04	0.03
Methane	72-82-8	*	2965.6	1232.6	4820.7	4034.7	1637.8
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		162.3	209.8	53.6	56.2	44.0
Dissolved Oxygen			3	0.8	2	1	0.80
Dissolved Oxygen[b]			0.61		0.01	1.58	0.53
Ferrous Iron			1.8	2.2	0.8	1.6	4.2
Hydrogen Sulfide	7783-06-4		0.3	2	0.5	0.6	0.10
Redox Potential (mV)[b]			-117	-85	-184	-199	-42.0
Sulfide			NA	0.65	0.45	0.9	0.20

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-22A		OLD-OU2-22B		
Sample ID		Florida GCTL[a]	NTCOU2G22A06	NTCOU2G22A08	NTCOU2G22B06	NTCOU2G22B08	NTCOU2G22B08-D
Sample Date			9/12/02	3/26/03	9/12/02	3/26/03	3/26/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000				22.1	22.1
Dissolved Organic Carbon		*	20	20.7	14	3.8	4
Nitrate	14797-55-8	10,000					0.18
Nitrite	14797-65-0	*					
Orthophosphate		*		0.17		2.1	2
Sulfate	14808-79-8	250,000					
Total Alkalinity		*		9		16.5	17
Dissolved Gases (mg/L)							NA
Carbon Dioxide	124-38-9	*	79.5	78.3	92.1	123.2	
Hydrogen (nm/L)	1333-74-0	*	3.3	2 J	2.9	1.7 J	
Nitrogen	7727-37-9	*	11.3	5.3	12.2	12.3	
Oxygen	7782-44-7	*	0.66		5.45	0.44	
Volatiles Gaseous (µg/L)							NA
Ethane	74-84-0	*	0.06	0.01		0.25	
Ethene	74-85-1	*	0.03			0.03	
Methane	72-82-8	*	351.5	115.5	0.4	200.2	
Field Parameters (mg/L)							NA
Carbon Dioxide	124-38-9		NA	T	51.0	42.2	
Dissolved Oxygen			NA	T	4		
Dissolved Oxygen[b]			0.4	0.99	0.15	3.77	
Ferrous Iron			NA	T	0.8	1.10	
Hydrogen Sulfide	7783-06-4		NA	1.1	0.3	0.90	
Redox Potential (mV)[b]			-227	28.0	NA	-155.0	
Sulfide			NA	T	0.3	0.65	

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-27A					
Sample ID		Florida GCTL[a]	NTCOU2G27A04	NTCOU2G27A05	NTCOU2G27A06	NTCOU2G27A06-D	NTCOU2G27A06	NTCOU2G27A08
Sample Date			3/26/02	6/19/02	9/12/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000	10	16	30	29	26	33.7
Dissolved Organic Carbon		*	26	36			NA	NA
Nitrate	14797-55-8	10,000						
Nitrite	14797-65-0	*						
Orthophosphate		*						0.11
Sulfate	14808-79-8	250,000	40	38	14	14	28	32.8
Total Alkalinity		*	NA	20	30	30	49	7
Dissolved Gases (mg/L)						**NA**		
Carbon Dioxide	124-38-9	*	306.5	247.7	456.6		443	309.3
Hydrogen (nm/L)	1333-74-0	*	1.3	1.4	1.8		0.6	1.5 J
Nitrogen	7727-37-9	*	7.9	5.3	7.4		8.2	12.5
Oxygen	7782-44-7	*	0.59	0.43	0.69		0.48	
Volatiles Gaseous (µg/L)						**NA**		
Ethane	74-84-0	*	0.14	0.05	0.59		0.7	0.03
Ethene	74-85-1	*	5	0.08	1.4		2.12	0.05
Methane	72-82-8	*	202.6	114.7	256.3		422.3	156.2
Field Parameters (mg/L)						**NA**		
Carbon Dioxide	124-38-9		308	216.7	62.0		40.8	36.2
Dissolved Oxygen			2	1	4		1	1.0
Dissolved Oxygen[b]			0.82		2.52		1.37	0.71
Ferrous Iron			3.2	3	3		1.8	5.2
Hydrogen Sulfide	7783-06-4			2	0.3		0.3	0.10
Redox Potential (mV)[b]			-3	-18	-107		-59	24
Sulfide			NA	1	0.3		1.65	0.20

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-27B				
Sample ID		Florida GCTL[a]	NTCOU2G27B04	NTCOU2G27B05	NTCOU2G27B06	NTCOU2G27B07	NTCOU2G27B08
Sample Date			3/26/02	6/19/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	30	40	34	35	
Dissolved Organic Carbon		*	13	25		NA	NA
Nitrate	14797-55-8	10,000	0.08				
Nitrite	14797-65-0	*					
Orthophosphate		*					
Sulfate	14808-79-8	250,000	6.3	2	7.6	31	40.6
Total Alkalinity		*	NA	NA		NA	67
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	391.6	479.9	592.1	437.7	395.6
Hydrogen (nm/L)	1333-74-0	*	1.4	1.9	2.6	0.9	1.8 J
Nitrogen	7727-37-9	*	6.4	6.6	6.6	3.1	7.6
Oxygen	7782-44-7	*	0.52	0.82	1.18	0.28	0.2
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.56	0.56	0.35	0.2	0.09
Ethene	74-85-1	*	0.9	1.11	0.84	0.35	0.38
Methane	72-82-8	*	3063.3	3966.4	4295.9	1830.6	1923.4
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		250.6	223.3	59.6	34.0	42.6
Dissolved Oxygen			1	1	6	1.0	1.0
Dissolved Oxygen[b]			9.08	0.42	0.07		0.36
Ferrous Iron			2.2	2.6	2.4	1.6	2.0
Hydrogen Sulfide	7783-06-4		1	5	1.0	5.0	5.0
Redox Potential (mV)[b]			-86	-87	-162	-155	-7.0
Sulfide			NA	1.75	1.25	1.60	1.0

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-29A			OLD-OU2-29B		
Sample ID		Florida GCTL[a]	NTCOU2G29A04	NTCOU2G29A05	NTCOU2G29A08	NTCOU2G29B04	NTCOU2G29B05	NTCOU2G29B08
Sample Date			3/27/02	6/21/02	3/26/03	3/27/02	6/21/02	3/26/03
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000	56	54 J	55.6	20	20 J	
Dissolved Organic Carbon		*	21	22	NA	7.5	9.4	NA
Nitrate	14797-55-8	10,000						
Nitrite	14797-65-0	*						
Orthophosphate		*			0.1			1.6
Sulfate	14808-79-8	250,000	52	41	55.9	5		
Total Alkalinity		*	40	40	25.5	40	30	27
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*	113.6	154.5	165.7	68.9	101.8	91.8
Hydrogen (nm/L)	1333-74-0	*	2.3	1.5	1.3 J	2	1.4	1.4 J
Nitrogen	7727-37-9	*	9.9	13.4	9.7	6.5	9.8	8.6
Oxygen	7782-44-7	*	1.08	0.34	0.52	0.38	0.29	0.63
Volatiles Gaseous (µg/L)								
Ethane	74-84-0	*	0.02			0.03	0.05	
Ethene	74-85-1	*	0.16	0.3	0.03	0.27	0.36	
Methane	72-82-8	*	197.7	224.6	161.1	412.5	624.9	2.2
Field Parameters (mg/L)								
Carbon Dioxide	124-38-9		78.3	275.9	50.4	70.2	164.1	37.0
Dissolved Oxygen			2	2	0.40	2	1	0.90
Dissolved Oxygen[b]			1.34	0.28	0.52	0.17	0.28	0.86
Ferrous Iron			3.4	2.8	3.8	3.2	3	3.0
Hydrogen Sulfide	7783-06-4		2		0.60	1	2	2.0
Redox Potential (mV)[b]			-120	-17	-19.0	-53	-91	-56.0
Sulfide			1.26		0.70	1.25	0.7	0.70

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-30A				
Sample ID		Florida GCTL[a]	NTCOU2G30A04	NTCOU2G30A05	NTCOU2G30A06	NTCOU2G30A07	NTCOU2G30A08
Sample Date			3/27/02	6/20/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	130	80	150	130	85.8
Dissolved Organic Carbon		*	44	24		NA	NA
Nitrate	14797-55-8	10,000		2.1	0.09		
Nitrite	14797-65-0	*					
Orthophosphate		*					0.1
Sulfate	14808-79-8	250,000	16	59	34	33	33.6
Total Alkalinity		*	NA	NA		24	23.5
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	162.6	166.5	419.4	355.8	228.3
Hydrogen (nm/L)	1333-74-0	*	2	1.1	2.6	0.8	1 J
Nitrogen	7727-37-9	*	4.7	8.3	6.7	5.9	6
Oxygen	7782-44-7	*	1.46	0.34	0.18	0.16	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.01	0.01	0.07		0.07
Ethene	74-85-1	*	0.03	0.05	0.08	0.17	0.22
Methane	72-82-8	*	172.3	266.1	2382.3	3214.6	2267.6
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		147.1	259.3	66.6	34	T
Dissolved Oxygen			1	0.9	1.0	1.0	T
Dissolved Oxygen[b]			2.37	0.74	0.73	0.45	0.59
Ferrous Iron			1.4	1.2	4.6	3.8	T
Hydrogen Sulfide	7783-06-4					0.1	
Redox Potential (mV)[b]			90	-38	1.86	-15	87.0
Sulfide				0.15			T

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-30B				
Sample ID		Florida GCTL[a]	NTCOU2G30B04	NTCOU2G30B05	NTCOU2G30B06	NTCOU2G30B07	NTCOU2G30B08
Sample Date			3/26/02	6/20/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	40	50	92	92	93.1
Dissolved Organic Carbon		*	56	48		NA	NA
Nitrate	14797-55-8	10,000					
Nitrite	14797-65-0	*					
Orthophosphate		*					0.38
Sulfate	14808-79-8	250,000	16		3.2	8.8	
Total Alkalinity		*	340	240	210	200	236
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	11.6	78.4	150.8	219.1	230.3
Hydrogen (nm/L)	1333-74-0	*	6.3	6.7	1	1	1.8 J
Nitrogen	7727-37-9	*	5.9	5.5	5.3	4.3	3
Oxygen	7782-44-7	*			0.24	0.26	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.29		0.12		0.23
Ethene	74-85-1	*	0.57	0.8	0.02	0.18	0.1
Methane	72-82-8	*	3854.1	6190	6619.6	4676.7	4188.5
Field Parameters (mg/L)				**NA**			
Carbon Dioxide	124-38-9		T		56.0	42.4	46.0
Dissolved Oxygen			T		1.0	1.0	4.0
Dissolved Oxygen[b]			0.22		0.14	0.66	0.40
Ferrous Iron			T		4.8	2.8	6.4
Hydrogen Sulfide	7783-06-4		0.3			0.1	0.10
Redox Potential (mV)[b]			-284		-209	-148	-95.0
Sulfide			NA			0.30	0.10

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-31A				
Sample ID		Florida GCTL[a]	NTCOU2G31A04	NTCOU2G31A05	NTCOU2G31A06	NTCOU2G31A07	NTCOU2G31A08
Sample Date			3/26/02	6/20/02	9/13/02	12/16/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	10	3		1.9	
Dissolved Organic Carbon		*	5	6.4		NA	NA
Nitrate	14797-55-8	10,000				0.11	
Nitrite	14797-65-0	*					
Orthophosphate		*					
Sulfate	14808-79-8	250,000	74	24	14	9.6	
Total Alkalinity		*	20				5
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	47.7	42	42.1	33	22.3
Hydrogen (nm/L)	1333-74-0	*	2.3	2	2	1.8	2 J
Nitrogen	7727-37-9	*	9.6	11.7	10.5	8.4	11
Oxygen	7782-44-7	*	0.61	0.93	1.03	2.01	0.96
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.1	0.05			
Ethene	74-85-1	*	1.2	2.48	0.02	0.01	
Methane	72-82-8	*	17.3	74.1	33.6	5.2	4.6
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		84.5	223	52.6	30	39.4
Dissolved Oxygen			2	0.7	4.0	1.0	0.60
Dissolved Oxygen[b]			0.8	0.4	0.8	4.3	0.53
Ferrous Iron			1.2	2			
Hydrogen Sulfide	7783-06-4		1	2			
Redox Potential (mV)[b]			-167	-36	32	156	181.0
Sulfide			NA	0.55	0.25		0.20

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-31B				
Sample ID		Florida GCTL[a]	NTCOU2G31B04	NTCOU2G31B05	NTCOU2G31B06	NTCOU2G31B07	NTCOU2G31B08
Sample Date			3/26/02	6/20/02	9/13/02	12/16/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	13	8	16	15	20.1
Dissolved Organic Carbon		*	9.1	11		NA	NA
Nitrate	14797-55-8	10,000					0.14
Nitrite	14797-65-0	*					
Orthophosphate		*				1.3	1.4
Sulfate	14808-79-8	250,000	31	21	25	20	23.3
Total Alkalinity		*					NA
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	86.8	97.6	277.4	246.1	195.1
Hydrogen (nm/L)	1333-74-0	*	1.7	0.6	1.8	1.7	2.1 J
Nitrogen	7727-37-9	*	9.7	15.3	9.2	9.9	3.8
Oxygen	7782-44-7	*	0.67	1.39	1	0.72	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.1	0.32	0.83	0.49	0.07
Ethene	74-85-1	*	0.34	0.51	0.63	0.71	0.37
Methane	72-82-8	*	144	178.2	559	661.5	180.6
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		149.3	205.2	42.6	41	42.6
Dissolved Oxygen			2	0.8	1.0	0.8	NA
Dissolved Oxygen[b]			0.9		0.27	1.33	0.63
Ferrous Iron			2	2.3	1.6	1.2	0.10
Hydrogen Sulfide	7783-06-4		2	1.0	1.0	0.5	0.60
Redox Potential (mV)[b]			-177	-102	NA	-114	-39.0
Sulfide			NA	0.85	0.9	1.15	1.1

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-32A				
Sample ID		Florida GCTL[a]	NTCOU2G32A04	NTCOU2G32A05	NTCOU2G32A06	NTCOU2G32A07	NTCOU2G32A08
Sample Date			3/25/02	6/19/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	15	6	6.1	0.7	
Dissolved Organic Carbon		*	36	33		NA	NA
Nitrate	14797-55-8	10,000	0.05	0.42	0.1	0.15	0.1
Nitrite	14797-65-0	*					
Orthophosphate		*					0.11
Sulfate	14808-79-8	250,000	34	32	2	1.2	
Total Alkalinity		*	50	20			NA
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	107.6	173.1	64.2	23.6	32
Hydrogen (nm/L)	1333-74-0	*	2.8	1.2	1.2	0.3	1.8 J
Nitrogen	7727-37-9	*	8.4	12	10.6	11.2	7
Oxygen	7782-44-7	*	0.27		1.99	5.28	2.71
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.04	0.06			
Ethene	74-85-1	*	0.96	0.93	0.1	0.04	
Methane	72-82-8	*	16.5	290.5	7.6	4.3	0.4
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		135.40	207		23.6	36.4
Dissolved Oxygen			1	2.0		1.0	5.5
Dissolved Oxygen[b]			0.63		4.39	7.92	6.68
Ferrous Iron			2.7	4.0		1.2	1.5
Hydrogen Sulfide	7783-06-4		1	5.0		0.1	0.10
Redox Potential (mV)[b]			-141	-79	165	263	260.0
Sulfide			NA	1.85		0.20	

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-32B				
Sample ID		Florida GCTL[a]	NTCOU2G32B04	NTCOU2G32B05	NTCOU2G32B06	NTCOU2G32B07	NTCOU2G32B08
Sample Date			3/25/02	6/19/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)							
Chloride	16887-00-6	250,000	5	6	6	7.5	
Dissolved Organic Carbon		*	13	10		NA	NA
Nitrate	14797-55-8	10,000					
Nitrite	14797-65-0	*					
Orthophosphate		*				1.6	2.3
Sulfate	14808-79-8	250,000	2			4	
Total Alkalinity		*	20			8.8	15
Dissolved Gases (mg/L)							
Carbon Dioxide	124-38-9	*	88.1	117.5	108.4	129.2	92.6
Hydrogen (nm/L)	1333-74-0	*	2.1	2.8	2.4	2.6	2.4 J
Nitrogen	7727-37-9	*	11	8.5	11.9	11.4	5.3
Oxygen	7782-44-7	*	1.54	0.5	1.35	0.83	
Volatiles Gaseous (µg/L)							
Ethane	74-84-0	*	0.04	0.04	0.04		0.01
Ethene	74-85-1	*	1.05	0.66	1.45	0.9	0.05
Methane	72-82-8	*	446.7	602.9	637.1	715.2	334.4
Field Parameters (mg/L)							
Carbon Dioxide	124-38-9		86	174.2	40.4	42.4	43.4
Dissolved Oxygen			3	1.0	3.0	1.0	1.0
Dissolved Oxygen[b]			0.59	0.03	0.2	0.55	4.72
Ferrous Iron			1.5	1.6	1.8	0.8	1.1
Hydrogen Sulfide	7783-06-4		2	2.0		0.4	1.0
Redox Potential (mV)[b]			-57	-70	-143	-175	-145.0
Sulfide			NA	0.75		0.35	0.75

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-33A					
Sample ID		Florida GCTL[a]	NTCOU2G33A04	NTCOU2G33A04-D	NTCOU2G33A05	NTCOU2G33A06	NTCOU2G33A07	NTCOU2G33A08
Sample Date			3/26/02	3/26/02	6/21/02	9/12/02	12/17/02	3/25/03
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000	14	16	20 J	9.8	3.6	
Dissolved Organic Carbon		*	13	12	18		NA	NA
Nitrate	14797-55-8	10,000		0.06		2.9	3.2	1.7
Nitrite	14797-65-0	*						
Orthophosphate		*						
Sulfate	14808-79-8	250,000	16	16	5.3	11	10	
Total Alkalinity		*	40	40			4.9	9
Dissolved Gases (mg/L)				NA				
Carbon Dioxide	124-38-9	*	78.3		159.8	88.5	85.2	85.2
Hydrogen (nm/L)	1333-74-0	*	3.6		3.4	1.7	0.8	1.8 J
Nitrogen	7727-37-9	*	10		10.5	10.3	10.3	9.6
Oxygen	7782-44-7	*	0.44		0.83	0.66	1.87	1.29
Volatiles Gaseous (µg/L)				NA				
Ethane	74-84-0	*	0.03					
Ethene	74-85-1	*	0.82		0.15		0.02	
Methane	72-82-8	*	62.2		1381.5	0.5	50.1	1.5
Field Parameters (mg/L)				NA				
Carbon Dioxide	124-38-9		103.4		174.5	44.8	59	38.0
Dissolved Oxygen			3		2.0	3.0	2.0	1.50
Dissolved Oxygen[b]			1			0.25	2.77	1.43
Ferrous Iron			2.2		3.4			
Hydrogen Sulfide	7783-06-4		2		5.0		0.1	0.10
Redox Potential (mV)[b]			-233		-108	NA	64	181.0
Sulfide			NA		0.80	0.25		

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-33B					
Sample ID		Florida GCTL[a]	NTCOU2G33B04	NTCOU2G33B05	NTCOU2G33B05-D	NTCOU2G33B06	NTCOU2G33B06-D	NTCOU2G33B07
Sample Date			3/25/02	6/21/02	6/21/02	9/12/02	9/12/02	12/17/02
Water Chemistry (mg/L)								
Chloride	16887-00-6	250,000	16	10 J	16 J	12	12	13
Dissolved Organic Carbon		*	10	19	17			NA
Nitrate	14797-55-8	10,000					0.05	
Nitrite	14797-65-0	*						
Orthophosphate		*						0.3
Sulfate	14808-79-8	250,000	8.7	5.2	5	12	12	22
Total Alkalinity		*	40					13
Dissolved Gases (mg/L)					NA		NA	
Carbon Dioxide	124-38-9	*	223.3	297		378.8		328.5
Hydrogen (nm/L)	1333-74-0	*	1.6	2				0.5
Nitrogen	7727-37-9	*	5.4	8.2		10.7		7.7
Oxygen	7782-44-7	*	0.39	0.6		0.45		0.69
Volatiles Gaseous (µg/L)					NA		NA	
Ethane	74-84-0	*	0.24	0.38		0.13		0.38
Ethene	74-85-1	*	0.71	0.89		0.16		0.69
Methane	72-82-8	*	1259.5	1645.1		2167.5		1552.4
Field Parameters (mg/L)					NA		NA	
Carbon Dioxide	124-38-9		207.1	263.3		42.6		52.2
Dissolved Oxygen			2	0.9		1.0		0.1
Dissolved Oxygen[b]			0.68	0.47		0.88		1.11
Ferrous Iron			2.7	3.2		2.0		1.8
Hydrogen Sulfide	7783-06-4		5	5.0		5.0		4
Redox Potential (mV)[b]			-102	-165		-172		-142
Sulfide			NA	2.15		5.3		1.9

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-33B		OLD-OU2-DP02A		OLD-OU2-DP02B	
Sample ID		Florida GCTL[a]	NTCOU2G33B08	NTCOU2G33B08-D	NTCOU2GP2A05	NTCOU2GP2A08	NTCOU2GP2B04	NTCOU2DP2B06
Sample Date			3/25/03	3/25/03	6/19/02	3/26/2003	3/25/02	9/12/02
Water Chemistry (mg/L)								**NA**
Chloride	16887-00-6	250,000			40 J		14	
Dissolved Organic Carbon		*	NA	NA	6.9		7.3	
Nitrate	14797-55-8	10,000						
Nitrite	14797-65-0	*						
Orthophosphate		*	0.54	0.57				
Sulfate	14808-79-8	250,000			14			
Total Alkalinity		*	NA	NA	NA	7		
Dissolved Gases (mg/L)				**NA**				
Carbon Dioxide	124-38-9	*	287.9		96.6	127.9	95.2	120.6
Hydrogen (nm/L)	1333-74-0	*	1.6 J		1.9	1.6 J	2.1	5
Nitrogen	7727-37-9	*	7.3		12.3	17.9	12.0	13.4
Oxygen	7782-44-7	*			0.5	3.1	1.2	1.63
Volatiles Gaseous (µg/L)				**NA**				
Ethane	74-84-0	*	0.28		0.03	0.13	0.03	0.32
Ethene	74-85-1	*	0.49		0.02	0.93	0.03	0.45
Methane	72-82-8	*	1091.1		544.3	646.8	244.1	410.1
Field Parameters (mg/L)				**NA**				
Carbon Dioxide	124-38-9		56.8		117.8	82.0	103.3	41.0
Dissolved Oxygen			1.0		1	4.0	1.5	2.0
Dissolved Oxygen[b]			5.64		0.33		2.37	2.91
Ferrous Iron			1.40		3.7	1.3	1	
Hydrogen Sulfide	7783-06-4		5.0		5	4.0	5	0.5
Redox Potential (mV)[b]			-158		-18	-247.0	-81	-121
Sulfide			1.85		1.5	0.95	NA	0.45

TABLE 2

HISTORICAL NATURAL ATTENUATION PARAMETER RESULTS
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-DP02B		
Sample ID		Florida GCTL[a]	NTCOU2DP2B07	NTCOU2GP2B08	NTCOU2GP2B08-D
Sample Date			12/17/02	3/26/03	3/26/03
Water Chemistry (mg/L)					
Chloride	16887-00-6	250,000	8		
Dissolved Organic Carbon		*	NA	NA	NA
Nitrate	14797-55-8	10,000			
Nitrite	14797-65-0	*			
Orthophosphate		*	1.1	1.8	1.4
Sulfate	14808-79-8	250,000	1.3		
Total Alkalinity		*	15	20	20
Dissolved Gases (mg/L)					**NA**
Carbon Dioxide	124-38-9	*	145.9	203.1	
Hydrogen (nm/L)	1333-74-0	*	1.6	2.7 J	
Nitrogen	7727-37-9	*	8.5	9.1	
Oxygen	7782-44-7	*	0.15	0.22	
Volatiles Gaseous (µg/L)					**NA**
Ethane	74-84-0	*	0.48	1.03	
Ethene	74-85-1	*	2.84	6.11	
Methane	72-82-8	*	815.2	1235.1	
Field Parameters (mg/L)					**NA**
Carbon Dioxide	124-38-9		46.2	39.6	
Dissolved Oxygen			0.6	12.0	
Dissolved Oxygen[b]			7.79	0.50	
Ferrous Iron				1.10	
Hydrogen Sulfide	7783-06-4		0.6	3.0	
Redox Potential (mV)[b]			207	-82.0	
Sulfide			1.2	0.80	

Footnotes:
[a] Groundwater Cleanup Target Level [Development of soil cleanup target levels (SCTLs) for Chapter 62-777, F.A.C., May 26 1999].
[b] Dissolved oxygen and Redox potential as measured by Horiba U-22 used during purging.
* Indicates that the screening value is not available.
Empty cells indicate non-detects.
"J" qualifier indicates an estimated value.
NA – No analysis performed.
nm/L – nanomoles per liter
T - Too turbid to read

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-01B	OLD-OU2-02A	OLD-OU2-02B	OLD-OU2-03A	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G01B08	NTCOU2G02A08	NTCOU2G02B08	NTCOU2G03A08	NTCOU2G03A08-D
Sample Date				3/25/03	3/26/03	3/26/03	3/26/03	3/26/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
cis-1,2-Dichloroethene	156-59-2	70						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	1750	25200	7670	11300	11800
Manganese	7439-96-5	50	17	8.6	138	14.8	128	136
Water Chemistry (mg/L)				NA				
Alkalinity		*			313	16	70.5	77
Chloride	16887-00-6	250,000			24	54.2		
Dissolved Organic Carbon		*			NA	NA	NA	NA
Nitrate	14797-55-8	10,000					0.13	0.11
Orthophosphate		*			0.26	1.5		
Sulfate	14808-79-8	250,000				24.4		
Dissolved Gases (mg/L)				NA				NA
Carbon Dioxide	124-38-9	*			230.6	151.2	126.9	
Hydrogen (nm/L)		*			1.9 J	1.4 J	2.2 J	
Nitrogen	7727-37-9	*			3.2	6.6	6.9	
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA				NA
Ethane	74-84-0	*			0.18		0.15	
Ethene	74-85-1	*						
Methane	74-82-8	*			3868.8	97.6	3729.6	

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-03B	OLD-OU2-05A	OLD-OU2-05B	OLD-OU2-06A	OLD-OU2-07B
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G03B08	NTCOU2G05A08	NTCOU2G05B08	NTCOU2G06A08	NTCOU2G07B08
Sample Date				3/26/03	3/26/03	3/26/03	3/26/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100		3.9				
cis-1,2-Dichloroethene	156-59-2	70						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	7700	2490	942	3190	911
Manganese	7439-96-5	50	17	20.7		3.1	1.2	1.5
Water Chemistry (mg/L)					NA	NA	NA	NA
Alkalinity		*		81				
Chloride	16887-00-6	250,000		49.6				
Dissolved Organic Carbon		*		NA				
Nitrate	14797-55-8	10,000						
Orthophosphate		*						
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)					NA	NA	NA	NA
Carbon Dioxide	124-38-9	*		184.2				
Hydrogen (nm/L)		*		1 J				
Nitrogen	7727-37-9	*		5.7				
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)					NA	NA	NA	NA
Ethane	74-84-0	*		0.03				
Ethene	74-85-1	*						
Methane	74-82-8	*		881.2				

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-08A	OLD-OU2-08B	OLD-OU2-09A	OLD-OU2-09B	OLD-OU2-11A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G08A08	NTCOU2G08B08	NTCOU2G09A08	NTCOU2G09B08	NTCOU2G11A08
Sample Date				3/25/03	3/25/03	3/26/03	3/26/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
cis-1,2-Dichloroethene	156-59-2	70						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	991	243	382	484	
Manganese	7439-96-5	50	17	1.5	3.1		5.9	3.8
Water Chemistry (mg/L)				NA	NA	NA	NA	NA
Alkalinity		*						
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*						
Nitrate	14797-55-8	10,000						
Orthophosphate		*						
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*						
Hydrogen (nm/L)		*						
Nitrogen	7727-37-9	*						
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA	NA	NA	NA	NA
Ethane	74-84-0	*						
Ethene	74-85-1	*						
Methane	74-82-8	*						

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-12A	OLD-OU2-12B	OLD-OU2-13A	OLD-OU2-13B	OLD-OU2-14A
Sample ID		Florida	NTC	NTCOU2G12A08	NTCOU2G12B08	NTCOU2G13A08	NTCOU2G13B08	NTCOU2G14A08
Sample Date		GCTL[b]	BGSV[c]	3/25/03	3/25/03	3/25/03	3/25/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
cis-1,2-Dichloroethene	156-59-2	70						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	323	1020		1400	214
Manganese	7439-96-5	50	17		8.4		8.5	
Water Chemistry (mg/L)				NA	NA	NA	NA	NA
Alkalinity		*						
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*						
Nitrate	14797-55-8	10,000						
Orthophosphate		*						
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*						
Hydrogen (nm/L)		*						
Nitrogen	7727-37-9	*						
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA	NA	NA	NA	NA
Ethane	74-84-0	*						
Ethene	74-85-1	*						
Methane	74-82-8	*						

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-14B	OLD-OU2-17A	OLD-OU2-17B	OLD-OU2-18A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G14B08	NTCOU2G17A08	NTCOU2G17B08	NTCOU2G18A08
Sample Date				3/25/03	3/25/03	3/25/03	3/25/03
Volatiles (µg/L)							
1,1,2-Trichloroethane	79-00-5	5					
1,1-Dichloroethene	75-35-4	7					
Acetone	67-64-1	700					
Benzene	71-43-2	1					
Carbon Disulfide	75-15-0	700				3 J	
Chlorobenzene	108-90-7	100					
cis-1,2-Dichloroethene	156-59-2	70					
Tetrachloroethene	127-18-4	3					
Toluene	108-88-3	40					
Total Xylenes	1330-20-7	20					
Trans-1,2-Dichloroethene	156-60-5	100					
Trichloroethene	79-01-6	3					
Vinyl Chloride	75-01-4	1					
Inorganics (µg/L)							
Iron	7439-89-6	300	1227	2250		1430	
Manganese	7439-96-5	50	17	5.2		9.1	
Water Chemistry (mg/L)				NA	NA	NA	NA
Alkalinity		*					
Chloride	16887-00-6	250,000					
Dissolved Organic Carbon		*					
Nitrate	14797-55-8	10,000					
Orthophosphate		*					
Sulfate	14808-79-8	250,000					
Dissolved Gases (mg/L)				NA	NA	NA	NA
Carbon Dioxide	124-38-9	*					
Hydrogen (nm/L)		*					
Nitrogen	7727-37-9	*					
Oxygen	7782-44-7	*					
Volatile Gases (µg/L)				NA	NA	NA	NA
Ethane	74-84-0	*					
Ethene	74-85-1	*					
Methane	74-82-8	*					

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-18B		OLD-OU2-20A	OLD-OU2-20B	OLD-OU2-21A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G18B08	NTCOU2G18B08-D	NTCOU2G20A08	NTCOU2G20B08	NTCOU2G21A08
Sample Date				3/25/03	3/25/03	3/26/03	3/26/03	3/26/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5		1.2	1.2			
1,1-Dichloroethene	75-35-4	7		1.6	1.6			
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
cis-1,2-Dichloroethene	156-59-2	70		135	163			
Tetrachloroethene	127-18-4	3		80.1	74			
Toluene	108-88-3	40		2	1.9			
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3		2850	3550			
Vinyl Chloride	75-01-4	1		42	37.1			
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	1020	915	276	379	349
Manganese	7439-96-5	50	17	12	10.4		1	
Water Chemistry (mg/L)								
Alkalinity		*		33.5 J	17 J	NA	28.5	NA
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*		NA	NA	4.9	5.2	2.6
Nitrate	14797-55-8	10,000						
Orthophosphate		*		1.4	1.2		1.9	
Sulfate	14808-79-8	250,000				20		
Dissolved Gases (mg/L)					NA	NA	NA	
Carbon Dioxide	124-38-9	*		177.6				59.1
Hydrogen (nm/L)		*		2.3 J				1.5 J
Nitrogen	7727-37-9	*		4.7				8.1
Oxygen	7782-44-7	*						0.5
Volatile Gases (µg/L)					NA	NA	NA	
Ethane	74-84-0	*		0.43				
Ethene	74-85-1	*		5.11				
Methane	74-82-8	*		795.7				

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-21B	OLD-OU2-22A	OLD-OU2-22B		OLD-OU2-27A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G21B08	NTCOU2G22A08	NTCOU2G22B08	NTCOU2G22B08-D	NTCOU2G27A08
Sample Date				3/26/03	3/26/03	3/26/03	3/26/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1						17.9
Carbon Disulfide	75-15-0	700						1.5 J
Chlorobenzene	108-90-7	100						36
cis-1,2-Dichloroethene	156-59-2	70						2.1
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						1.8
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	1120	5660	1110	1270	2140
Manganese	7439-96-5	50	17	6.8	6.4	4	5.4	8.6
Water Chemistry (mg/L)								
Alkalinity		*		25.5	9	16.5	17	7
Chloride	16887-00-6	250,000				22.1	22.1	33.7
Dissolved Organic Carbon		*		11.5	20.7	3.8	4	NA
Nitrate	14797-55-8	10,000					0.18	
Orthophosphate		*		2.1	0.17	2.1	2	0.11
Sulfate	14808-79-8	250,000						32.8
Dissolved Gases (mg/L)							NA	
Carbon Dioxide	124-38-9	*		108.2	78.3	123.2		309.3
Hydrogen (nm/L)		*		50 J	2 J	1.7 J		1.5 J
Nitrogen	7727-37-9	*		5.9	5.3	12.3		12.5
Oxygen	7782-44-7	*				0.44		
Volatile Gases (µg/L)							NA	
Ethane	74-84-0	*		0.09	0.01	0.25		0.03
Ethene	74-85-1	*		0.03		0.03		0.05
Methane	74-82-8	*		1637.8	115.5	200.2		156.2

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-27B	OLD-OU2-28A	OLD-OU2-28B	OLD-OU2-29A	OLD-OU2-29B
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G27B08	NTCOU2G28A08	NTCOU2G28B08	NTCOU2G29A08	NTCOU2G29B08
Sample Date				3/25/03	3/25/03	3/25/03	3/26/03	3/26/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1				3.8		
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100		6.5		7.6		
cis-1,2-Dichloroethene	156-59-2	70		0.53 J		2.6		
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1		2.8		7.4		
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	22500	1880	4660	5870	3420
Manganese	7439-96-5	50	17	431	9	14.9	5.8	4.9
Water Chemistry (mg/L)					NA	NA		
Alkalinity		*		67			25.5	27
Chloride	16887-00-6	250,000					55.6	
Dissolved Organic Carbon		*		NA			NA	NA
Nitrate	14797-55-8	10,000						
Orthophosphate		*					0.1	1.6
Sulfate	14808-79-8	250,000		40.6			55.9	
Dissolved Gases (mg/L)					NA	NA		
Carbon Dioxide	124-38-9	*		395.6			165.7	91.8
Hydrogen (nm/L)		*		1.8 J			1.3 J	1.4 J
Nitrogen	7727-37-9	*		7.6			9.7	8.6
Oxygen	7782-44-7	*		0.2			0.52	0.63
Volatile Gases (µg/L)					NA	NA		
Ethane	74-84-0	*		0.09				
Ethene	74-85-1	*		0.38			0.03	
Methane	74-82-8	*		1923.4			161.1	2.2

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-30A	OLD-OU2-30B	OLD-OU2-31A	OLD-OU2-31B	OLD-OU2-32A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G30A08	NTCOU2G30B08	NTCOU2G31A08	NTCOU2G31B08	NTCOU2G32A08
Sample Date				3/25/03	3/25/03	3/25/03	3/25/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1			1.5		2.3	
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100			2		11.2	
cis-1,2-Dichloroethene	156-59-2	70					1.4	
Tetrachloroethene	127-18-4	3					1.5	
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1					3.8	
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	30900	27200		1590	
Manganese	7439-96-5	50	17	64.2	105	8.5	3.7	
Water Chemistry (mg/L)								
Alkalinity		*		23.5	236	5	NA	NA
Chloride	16887-00-6	250,000		85.8	93.1		20.1	
Dissolved Organic Carbon		*		NA	NA	NA	NA	NA
Nitrate	14797-55-8	10,000					0.14	0.1
Orthophosphate		*		0.1	0.38		1.4	0.11
Sulfate	14808-79-8	250,000		33.6			23.3	
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*		228.3	230.3	22.3	195.1	32
Hydrogen (nm/L)		*		1 J	1.8 J	2 J	2.1 J	1.8 J
Nitrogen	7727-37-9	*		6	3	11	3.8	7
Oxygen	7782-44-7	*				0.96		2.71
Volatile Gases (µg/L)								
Ethane	74-84-0	*		0.07	0.23		0.07	
Ethene	74-85-1	*		0.22	0.1		0.37	
Methane	74-82-8	*		2267.6	4188.5	4.6	180.6	0.4

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-32B	OLD-OU2-33A	OLD-OU2-33B		OLD-OU2-34A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G32B08	NTCOU2G33A08	NTCOU2G33B08	NTCOU2G33B08-D	NTCOU2G34A08
Sample Date				3/25/03	3/25/03	3/25/03	3/25/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700						
Benzene	71-43-2	1				3	2.6	
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100				1.8	1.7	
cis-1,2-Dichloroethene	156-59-2	70				6.5	6.1	
Tetrachloroethene	127-18-4	3				0.5 J		
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3		7.6		76.3	67.4	
Vinyl Chloride	75-01-4	1				5.8	5.6	
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	1250	500	1870	1780	6460
Manganese	7439-96-5	50	17	7.9	7.2	7.5	6.4	8.1
Water Chemistry (mg/L)								NA
Alkalinity		*		15	9	NA	NA	
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*		NA	NA	NA	NA	
Nitrate	14797-55-8	10,000			1.7			
Orthophosphate		*		2.3		0.54	0.57	
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)							NA	NA
Carbon Dioxide	124-38-9	*		92.6	85.2	287.9		
Hydrogen (nm/L)		*		2.4 J	1.8 J	1.6 J		
Nitrogen	7727-37-9	*		5.3	9.6	7.3		
Oxygen	7782-44-7	*			1.29			
Volatile Gases (µg/L)							NA	NA
Ethane	74-84-0	*		0.01		0.28		
Ethene	74-85-1	*		0.05		0.49		
Methane	74-82-8	*		334.4	1.5	1091.1		

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-35B	OLD-OU2-36A	OLD-OU2-37B	OLD-OU2-DP01A	OLD-OU2-DP01B
Sample ID		Florida	NTC	NTCOU2G35B08	NTCOU2G36A08	NTCOU2G37B08	NTCOU2GP1A08	NTCOU2GP1B08
Sample Date		GCTL[b]	BGSV[c]	3/26/03	3/25/03	3/25/03	3/26/03	3/26/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethene	75-35-4	7						
Acetone	67-64-1	700				5.8		
Benzene	71-43-2	1				10.9		
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100				16.6		
cis-1,2-Dichloroethene	156-59-2	70				6.4		
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40				0.61 J		
Total Xylenes	1330-20-7	20				3.7		
Trans-1,2-Dichloroethene	156-60-5	100				1.1		
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1				6.6		
Inorganics (µg/L)								
Iron	7439-89-6	300	1227	1950	3040	3440	1990	1300
Manganese	7439-96-5	50	17	5.2	3.2	8.1	12.2	7.6
Water Chemistry (mg/L)				NA	NA	NA	NA	NA
Alkalinity		*						
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*						
Nitrate	14797-55-8	10,000						
Orthophosphate		*						
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*						
Hydrogen (nm/L)		*						
Nitrogen	7727-37-9	*						
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA	NA	NA	NA	NA
Ethane	74-84-0	*						
Ethene	74-85-1	*						
Methane	74-82-8	*						

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-DP02A	OLD-OU2-DP02B	
Sample ID		Florida	NTC	NTCOU2GP2A08	NTCOU2GP2B08	NTCOU2GP2B08-D
Sample Date		GCTL[b]	BGSV[c]	3/26/03	3/26/03	3/26/03
Volatiles (µg/L)						
1,1,2-Trichloroethane	79-00-5	5				
1,1-Dichloroethene	75-35-4	7				0.64 J
Acetone	67-64-1	700				
Benzene	71-43-2	1				0.61 J
Carbon Disulfide	75-15-0	700				
Chlorobenzene	108-90-7	100				
cis-1,2-Dichloroethene	156-59-2	70		89.8	60.4	74.2
Tetrachloroethene	127-18-4	3		23.5	30.3	36.9
Toluene	108-88-3	40				2.3
Total Xylenes	1330-20-7	20				
Trans-1,2-Dichloroethene	156-60-5	100				
Trichloroethene	79-01-6	3		790	1270	1180
Vinyl Chloride	75-01-4	1		10.9	16 J	17.4
Inorganics (µg/L)						
Iron	7439-89-6	300	1227	1610	717	788
Manganese	7439-96-5	50	17	1.3	2.7	3.5
Water Chemistry (mg/L)						
Alkalinity		*		7	20	20
Chloride	16887-00-6	250,000				
Dissolved Organic Carbon		*		NA	NA	NA
Nitrate	14797-55-8	10,000				
Orthophosphate		*			1.8	1.4
Sulfate	14808-79-8	250,000				
Dissolved Gases (mg/L)						NA
Carbon Dioxide	124-38-9	*		127.9	203.1	
Hydrogen (nm/L)		*		1.6 J	2.7 J	
Nitrogen	7727-37-9	*		17.9	9.1	
Oxygen	7782-44-7	*		3.1	0.22	
Volatile Gases (µg/L)						NA
Ethane	74-84-0	*		0.13	1.03	
Ethene	74-85-1	*		0.93	6.11	
Methane	74-82-8	*		646.8	1235.1	

TABLE 3

DETECTIONS IN GROUNDWATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

[a] For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV. Analytes with no GCTL are not considered to have exceedances.

[b] Groundwater Cleanup Target Level [Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].

[c] Background Screening Value (Background Sampling Report for NTC, Orlando, Florida; ABB Environmental Services, August 1995) for inorganics only.

* Indicates that the screening value is not available.

Empty cells indicate non-detects.

"J" qualifier indicates an estimated value.

NA - Not analyzed.

nm/L - nanomoles per liter.

Only chemicals detected in at least one sample are shown.

Values in shaded cells are equal to or exceed the screening criteria.

TABLE 4

DETECTIONS IN SURFACE WATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW29	OLD-OU2-SW30	OLD-OU2-SW31	OLD-OU2-SW32	OLD-OU2-SW33
Sample ID		Florida	NTCOU2SW2908	NTCOU2SW3008	NTCOU2SW3108	NTCOU2SW3208	NTCOU2SW3308
Sample Date		SWCTL[(a)]	3/25/03	3/25/03	3/25/03	3/26/03	3/26/03
Volatiles (µg/L)							
Acetone	67-64-1	1,692	11.1				
Inorganics (µg/L)							
Iron	7439-89-6	1000	118000	8740	662	720	2240
Manganese	7439-96-5	*	226	34.8	11.1	14.5	32.6

TABLE 4

DETECTIONS IN SURFACE WATER - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW34	OLD-OU2-SW35		OLD-OU2-SW36
Sample ID		Florida	NTCOU2SW3408	NTCOU2SW3508	NTCOU2SW3508-D	NTCOU2SW3608
Sample Date		SWCTL[a]	3/26/03	3/26/03	3/26/03	3/25/03
Volatiles (µg/L)						
Acetone	67-64-1	1,692				
Inorganics (µg/L)						
Iron	7439-89-6	1000	245	642 J	5320 J	5650
Manganese	7439-96-5	*	1.5	7.5 J	65 J	9.9

Notes:

[a] Surface Water Cleanup Target Level [Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].

* Indicates that the screening value is not available.

"J" qualifier indicates an estimated value.

Only chemicals detected in at least one sample are shown.

Values in shaded cells are equal to or exceed the screening criteria.

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-01A		OLD-OU2-01B			
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW01A02	OU2MW01A02-D	OU2MW01B02	OU2MW01BO2-D	NTCOU2G01B04	NTCOU2G01B06
Sample Date				9/21/99	9/21/99	7/14/99	7/14/99	3/26/02	9/11/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	19400 J	15100 J			NA	
Aluminum Dissolved		*	*	NA	NA	NA	NA	NA	
Antimony	7440-36-0	6	4.1					NA	
Antimony Dissolved		*	*	NA	NA	NA	NA	NA	
Arsenic	7440-38-2	50	5					NA	
Arsenic Dissolved		*	*	NA	NA	NA	NA	NA	
Barium	7440-39-3	2000	31.4	36.5 J	34.2 J			NA	
Barium Dissolved		*	*	NA	NA	NA	NA	NA	
Beryllium	7440-41-7	4	*					NA	
Beryllium Dissolved		*	*	NA	NA	NA	NA	NA	
Calcium	7440-70-2	*	36830	5740 J	12200 J	13200	13200	NA	
Calcium Dissolved		*	*	NA	NA	NA	NA	NA	
Chromium	7440-47-3	100	7.8	18.6 J	15.3 J			NA	
Chromium Dissolved		*	*	NA	NA	NA	NA	NA	
Cobalt	7440-48-4	420	*					NA	
Cobalt Dissolved		*	*	NA	NA	NA	NA	NA	
Copper	7440-50-8	1000	5.4	0.8				NA	
Copper Dissolved		*	*	NA	NA	NA	NA	NA	
Iron	7439-89-6	300	1227	3330 J	2800 J	1470	1460	NA	2990[d]
Iron Dissolved		*	*					861	
Lead	7439-92-1	15	4	6.8 J	6.1 J			NA	
Lead Dissolved		*	*	NA	NA	NA	NA	NA	
Magnesium	7439-95-4	*	4560	1320 J	1270 J	1300	1280	NA	
Magnesium Dissolved		*	*	NA	NA	NA	NA	NA	
Manganese	7439-96-5	50	17	7.1 J	6.3 J			NA	4.7[d]
Manganese Dissolved		*	*						
Mercury	7439-97-6	2	0.12					NA	
Mercury Dissolved		*	*	NA	NA	NA	NA	NA	
Nickel	7440-02-0	100	*					NA	
Nickel Dissolved		*	*	NA	NA	NA	NA	NA	
Potassium	7440-09-7	*	5400	1580	1590			NA	
Potassium Dissolved		*	*	NA	NA	NA	NA	NA	
Selenium	7782-49-2	50	9.7		3.5			NA	
Selenium Dissolved		*	*	NA	NA	NA	NA	NA	
Sodium	7440-23-5	160000	18222	6600	6770			NA	
Sodium Dissolved		*	*	NA	NA	NA	NA	NA	
Thallium	7440-28-0	2	3.8					NA	
Thallium Dissolved		*	*	NA	NA	NA	NA	NA	
Vanadium	7440-62-2	49	20.6	67.3 J	62.6 J			NA	
Vanadium Dissolved		*	*	NA	NA	NA	NA	NA	
Zinc	7440-66-6	5000	4					NA	
Zinc Dissolved		*	*	NA	NA	NA	NA	NA	
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-01B	OLD-OU2-02A				
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G01B08	OU2MW02A02	NTCOU2G02A04	NTCOU2G02A05	NTCOU2G02A06	NTCOU2G02A07
Sample Date				3/25/03	7/13/99	3/27/02	6/19/02	9/11/02	12/16/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		981	NA	NA		
Aluminum Dissolved		*	*		NA	NA	NA		
Antimony	7440-36-0	6	4.1			NA	NA		
Antimony Dissolved		*	*		NA	NA	NA		
Arsenic	7440-38-2	50	5		2.9	NA	NA		
Arsenic Dissolved		*	*		NA	NA	NA		
Barium	7440-39-3	2000	31.4			NA	NA		
Barium Dissolved		*	*		NA	NA	NA		
Beryllium	7440-41-7	4	*			NA	NA		
Beryllium Dissolved		*	*		NA	NA	NA		
Calcium	7440-70-2	*	36830		11700	NA	NA		
Calcium Dissolved		*	*		NA	NA	NA		
Chromium	7440-47-3	100	7.8			NA	NA		
Chromium Dissolved		*	*		NA	NA	NA		
Cobalt	7440-48-4	420	*			NA	NA		
Cobalt Dissolved		*	*		NA	NA	NA		
Copper	7440-50-8	1000	5.4			NA	NA		
Copper Dissolved		*	*		NA	NA	NA		
Iron	7439-89-6	300	1227	1750	3760	NA	5640	25600	30300
Iron Dissolved		*	*			4740	NA		
Lead	7439-92-1	15	4			NA	NA		
Lead Dissolved		*	*		NA	NA	NA		
Magnesium	7439-95-4	*	4560		4200	NA	NA		
Magnesium Dissolved		*	*		NA	NA	NA		
Manganese	7439-96-5	50	17	8.6		NA	19	169	214
Manganese Dissolved		*	*			20.3	NA		
Mercury	7439-97-6	2	0.12			NA	NA		
Mercury Dissolved		*	*		NA	NA	NA		
Nickel	7440-02-0	100	*			NA	NA		
Nickel Dissolved		*	*		NA	NA	NA		
Potassium	7440-09-7	*	5400			NA	NA		
Potassium Dissolved		*	*		NA	NA	NA		
Selenium	7782-49-2	50	9.7			NA	NA		
Selenium Dissolved		*	*		NA	NA	NA		
Sodium	7440-23-5	160000	18222			NA	NA		
Sodium Dissolved		*	*		NA	NA	NA		
Thallium	7440-28-0	2	3.8			NA	NA		
Thallium Dissolved		*	*		NA	NA	NA		
Vanadium	7440-62-2	49	20.6			NA	NA		
Vanadium Dissolved		*	*		NA	NA	NA		
Zinc	7440-66-6	5000	4			NA	NA		
Zinc Dissolved		*	*		NA	NA	NA		
Water Chemistry (mg/L)				NA	NA				
Alkalinity		*				30	40	330	390
Chloride	16887-00-6	250,000				30	30	33	27
Dissolved Organic Carbon		*				25	24	91	25
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000						2	0.46
Dissolved Gases (mg/L)				NA	NA				
Carbon Dioxide	124-38-9	*				92.3	140.4	474.5	433.7
Hydrogen (nm/L)	1333-74-0	*				2.9	4.6	1.4	1
Nitrogen	7727-37-9	*				8.9	7.8	6.2	4.3
Oxygen	7782-44-7	*				0.69	0.25	0.58	0.17
Volatile Gases (µg/L)				NA	NA				
Ethane	74-84-0	*					0.24	0.23	
Ethene	74-85-1	*							0.03
Methane	74-82-8	*				3998.1	3944.4	3307.4	3627.1

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-02A	OLD-OU2-02B				
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G02A08	OU2MW02B02	NTCOU2G02B04	NTCOU2G02B05	NTCOU2G02B06	NTCOU2G02B07
Sample Date				3/26/03	7/28/99	3/27/02	6/19/02	9/11/02	12/16/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		608 J	NA	NA		
Aluminum Dissolved		*	*		NA	NA	NA		
Antimony	7440-36-0	6	4.1			NA	NA		
Antimony Dissolved		*	*		NA	NA	NA		
Arsenic	7440-38-2	50	5			NA	NA		
Arsenic Dissolved		*	*		NA	NA	NA		
Barium	7440-39-3	2000	31.4		22.2	NA	NA		
Barium Dissolved		*	*		NA	NA	NA		
Beryllium	7440-41-7	4	*			NA	NA		
Beryllium Dissolved		*	*		NA	NA	NA		
Calcium	7440-70-2	*	36830		17300 J	NA	NA		
Calcium Dissolved		*	*		NA	NA	NA		
Chromium	7440-47-3	100	7.8			NA	NA		
Chromium Dissolved		*	*		NA	NA	NA		
Cobalt	7440-48-4	420	*			NA	NA		
Cobalt Dissolved		*	*		NA	NA	NA		
Copper	7440-50-8	1000	5.4			NA	NA		
Copper Dissolved		*	*		NA	NA	NA		
Iron	7439-89-6	300	1227	25200	3940	NA	2860	2970	3320
Iron Dissolved		*	*		NA	2100	NA		
Lead	7439-92-1	15	4			NA	NA		
Lead Dissolved		*	*		NA	NA	NA		
Magnesium	7439-95-4	*	4560		3330	NA	NA		
Magnesium Dissolved		*	*		NA	NA	NA		
Manganese	7439-96-5	50	17	138	12.1	NA	10.2	12.8	14.7
Manganese Dissolved		*	*			11.8	NA		
Mercury	7439-97-6	2	0.12			NA	NA		
Mercury Dissolved		*	*		NA	NA	NA		
Nickel	7440-02-0	100	*			NA	NA		
Nickel Dissolved		*	*		NA	NA	NA		
Potassium	7440-09-7	*	5400		1340	NA	NA		
Potassium Dissolved		*	*		NA	NA	NA		
Selenium	7782-49-2	50	9.7			NA	NA		
Selenium Dissolved		*	*		NA	NA	NA		
Sodium	7440-23-5	160000	18222		19100	NA	NA		
Sodium Dissolved		*	*		NA	NA	NA		
Thallium	7440-28-0	2	3.8			NA	NA		
Thallium Dissolved		*	*		NA	NA	NA		
Vanadium	7440-62-2	49	20.6			NA	NA		
Vanadium Dissolved		*	*		NA	NA	NA		
Zinc	7440-66-6	5000	4			NA	NA		
Zinc Dissolved		*	*		NA	NA	NA		
Water Chemistry (mg/L)					NA				
Alkalinity		*		313		NA		NA	13
Chloride	16887-00-6	250,000		24		40	40	41	43
Dissolved Organic Carbon		*		NA		9	15	19	5.1
Nitrate	14797-55-8	10,000					0.08		
Orthophosphate		*		0.26					0.69
Sulfate	14808-79-8	250,000				14.5	12	10	15
Dissolved Gases (mg/L)					NA				
Carbon Dioxide	124-38-9	*		230.6		140.9	126.5	186.4	185.2
Hydrogen (nm/L)	1333-74-0	*		1.9 J		1.9	1.8	1.7	0.7
Nitrogen	7727-37-9	*		3.2		7.6	5.8	11.9	9.1
Oxygen	7782-44-7	*				0.38	0.71	1.24	0.28
Volatile Gases (µg/L)					NA				
Ethane	74-84-0	*		0.18			0.02	0.03	
Ethene	74-85-1	*					0.02		0.03
Methane	74-82-8	*		3868.8		202.6	217.2	471.1	202.6

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-02B	OLD-OU2-03A				
Sample ID		Florida	NTC	NTCOU2G02B08	OU2MW03A02	NTCOU2G03A04	NTCOU2G03A05	NTCOU2G03A05-D	NTCOU2G03A06
Sample Date		GCTL[b]	BGSV[c]	3/26/03	7/29/99	3/26/02	6/19/02	6/19/02	9/11/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							0.4 J
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200					4 J	4 J	
Acetone	67-64-1	700					50 J	43 J	
Benzene	71-43-2	1				1	1	1	6
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100				0.4 J	0.5 J	0.6 J	3
Chloroethane	75-00-3	12					2	1 J	
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							2
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40					0.4 J	0.5 J	
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1						0.5 J	3
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		467	NA	NA	NA	
Aluminum Dissolved		*	*		NA	NA	NA	NA	
Antimony	7440-36-0	6	4.1			NA	NA	NA	
Antimony Dissolved		*	*		NA	NA	NA	NA	
Arsenic	7440-38-2	50	5			NA	NA	NA	
Arsenic Dissolved		*	*		NA	NA	NA	NA	
Barium	7440-39-3	2000	31.4		91.6	NA	NA	NA	
Barium Dissolved		*	*		NA	NA	NA	NA	
Beryllium	7440-41-7	4	*			NA	NA	NA	
Beryllium Dissolved		*	*		NA	NA	NA	NA	
Calcium	7440-70-2	*	36830		31700	NA	NA	NA	
Calcium Dissolved		*	*		NA	NA	NA	NA	
Chromium	7440-47-3	100	7.8			NA	NA	NA	
Chromium Dissolved		*	*		NA	NA	NA	NA	
Cobalt	7440-48-4	420	*		5.2	NA	NA	NA	
Cobalt Dissolved		*	*		NA	NA	NA	NA	
Copper	7440-50-8	1000	5.4		1.4	NA	NA	NA	
Copper Dissolved		*	*		NA	NA	NA	NA	
Iron	7439-89-6	300	1227	7670	23700	NA	40100	40000	17600
Iron Dissolved		*	*		NA	1820	NA	NA	
Lead	7439-92-1	15	4			NA	NA	NA	
Lead Dissolved		*	*		NA	NA	NA	NA	
Magnesium	7439-95-4	*	4560		2850	NA	NA	NA	
Magnesium Dissolved		*	*		NA	NA	NA	NA	
Manganese	7439-96-5	50	17	14.8	616	NA	623	626	142
Manganese Dissolved		*	*			666	NA	NA	
Mercury	7439-97-6	2	0.12			NA	NA	NA	
Mercury Dissolved		*	*		NA	NA	NA	NA	
Nickel	7440-02-0	100	*		16.8	NA	NA	NA	
Nickel Dissolved		*	*		NA	NA	NA	NA	
Potassium	7440-09-7	*	5400		895	NA	NA	NA	
Potassium Dissolved		*	*		NA	NA	NA	NA	
Selenium	7782-49-2	50	9.7			NA	NA	NA	
Selenium Dissolved		*	*		NA	NA	NA	NA	
Sodium	7440-23-5	160000	18222		11500	NA	NA	NA	
Sodium Dissolved		*	*		NA	NA	NA	NA	
Thallium	7440-28-0	2	3.8			NA	NA	NA	
Thallium Dissolved		*	*		NA	NA	NA	NA	
Vanadium	7440-62-2	49	20.6		6.2	NA	NA	NA	
Vanadium Dissolved		*	*		NA	NA	NA	NA	
Zinc	7440-66-6	5000	4		126	NA	NA	NA	
Zinc Dissolved		*	*		NA	NA	NA	NA	
Water Chemistry (mg/L)					NA				
Alkalinity		*		16		220	220	220	90
Chloride	16887-00-6	250,000		54.2		16	120	120	50
Dissolved Organic Carbon		*		NA		30	84	85	42
Nitrate	14797-55-8	10,000				4.3			
Orthophosphate		*		1.5					
Sulfate	14808-79-8	250,000		24.4		72	100	110	
Dissolved Gases (mg/L)					NA			NA	
Carbon Dioxide	124-38-9	*		151.2		320.2	345.4		141.7
Hydrogen (nm/L)	1333-74-0	*		1.4 J		1.1	1.6		2.1
Nitrogen	7727-37-9	*		6.6		6.3	8.9		11.8
Oxygen	7782-44-7	*				0.14 J	0.44		0.45
Volatile Gases (µg/L)					NA			NA	
Ethane	74-84-0	*				0.26	0.29		0.04
Ethene	74-85-1	*				0.1	0.25		
Methane	74-82-8	*		97.6		3060.8	3815.1		768.9

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-03A				OLD-OU2-03B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G03A06-D	NTCOU2G03A07	NTCOU2G03A08	NTCOU2G03A08-D	OU2MW03B02	NTCOU2G03B04
Sample Date				9/11/02	12/16/02	3/26/03	3/26/03	7/29/99	3/26/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70		0.5 J					
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		7				3.4 J	
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100		4				23	7
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70		2					
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1		4					
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067					965	NA
Aluminum Dissolved		*	*					NA	NA
Antimony	7440-36-0	6	4.1						NA
Antimony Dissolved		*	*					NA	NA
Arsenic	7440-38-2	50	5						NA
Arsenic Dissolved		*	*					NA	NA
Barium	7440-39-3	2000	31.4					41.5	NA
Barium Dissolved		*	*					NA	NA
Beryllium	7440-41-7	4	*						NA
Beryllium Dissolved		*	*					NA	NA
Calcium	7440-70-2	*	36830					41500	NA
Calcium Dissolved		*	*					NA	NA
Chromium	7440-47-3	100	7.8						NA
Chromium Dissolved		*	*					NA	NA
Cobalt	7440-48-4	420	*					2.4	NA
Cobalt Dissolved		*	*					NA	NA
Copper	7440-50-8	1000	5.4					1.1	NA
Copper Dissolved		*	*					NA	NA
Iron	7439-89-6	300	1227	17000	5900	11300	11800	15500	NA
Iron Dissolved		*	*						25400
Lead	7439-92-1	15	4						NA
Lead Dissolved		*	*					NA	NA
Magnesium	7439-95-4	*	4560					8570	NA
Magnesium Dissolved		*	*					NA	NA
Manganese	7439-96-5	50	17	140	105	128	136	38.3	NA
Manganese Dissolved		*	*						30.4
Mercury	7439-97-6	2	0.12						NA
Mercury Dissolved		*	*					NA	NA
Nickel	7440-02-0	100	*						NA
Nickel Dissolved		*	*					NA	NA
Potassium	7440-09-7	*	5400					2960	NA
Potassium Dissolved		*	*					NA	NA
Selenium	7782-49-2	50	9.7						NA
Selenium Dissolved		*	*					NA	NA
Sodium	7440-23-5	160000	18222					34100	NA
Sodium Dissolved		*	*					NA	NA
Thallium	7440-28-0	2	3.8						NA
Thallium Dissolved		*	*					NA	NA
Vanadium	7440-62-2	49	20.6					7.4	NA
Vanadium Dissolved		*	*					NA	NA
Zinc	7440-66-6	5000	4						NA
Zinc Dissolved		*	*					NA	NA
Water Chemistry (mg/L)								NA	
Alkalinity		*		89	32	70.5	77		100
Chloride	16887-00-6	250,000		50	5.9				52
Dissolved Organic Carbon		*		NA	19	NA	NA		24
Nitrate	14797-55-8	10,000				0.13	0.11		
Orthophosphate		*							
Sulfate	14808-79-8	250,000			3.2				8.1
Dissolved Gases (mg/L)				NA			NA	NA	
Carbon Dioxide	124-38-9	*			75.2	126.9			126.2
Hydrogen (nm/L)	1333-74-0	*			1	2.2 J			1.4
Nitrogen	7727-37-9	*			9	6.9			8.1
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA			NA	NA	
Ethane	74-84-0	*				0.15			0.05
Ethene	74-85-1	*			0.03				0.03
Methane	74-82-8	*			2445.7	3729.6			734.7

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-03B					OLD-OU2-04A
Sample ID		Florida	NTC	NTCOU2G03B05	NTCOU2G03B06	NTCOU2G03B07	NTCOU2G03B07-D	NTCOU2G03B08	OU2MW04A02
Sample Date		GCTL[b]	BGSV[c]	6/19/02	9/11/02	12/16/02	12/16/02	3/26/03	9/23/99
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100		5	1	2.5	2.7	3.9	
Chloroethane	75-00-3	12		0.8 J					
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7			0.4 J				
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3				0.77 J	0.66 J		
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA					105000 J
Aluminum Dissolved		*	*	NA					NA
Antimony	7440-36-0	6	4.1	NA					
Antimony Dissolved		*	*	NA					NA
Arsenic	7440-38-2	50	5	NA					5.6
Arsenic Dissolved		*	*	NA					NA
Barium	7440-39-3	2000	31.4	NA					420 J
Barium Dissolved		*	*	NA					NA
Beryllium	7440-41-7	4	*	NA					
Beryllium Dissolved		*	*	NA					NA
Calcium	7440-70-2	*	36830	NA					9580 J
Calcium Dissolved		*	*	NA					NA
Chromium	7440-47-3	100	7.8	NA					81.2 J
Chromium Dissolved		*	*	NA					NA
Cobalt	7440-48-4	420	*	NA					
Cobalt Dissolved		*	*	NA					NA
Copper	7440-50-8	1000	5.4	NA					12.2
Copper Dissolved		*	*	NA					NA
Iron	7439-89-6	300	1227	13700	9830	10200	10200	7700	11000 J
Iron Dissolved		*	*	NA					
Lead	7439-92-1	15	4	NA					44.5 J
Lead Dissolved		*	*	NA					NA
Magnesium	7439-95-4	*	4560	NA					3140 J
Magnesium Dissolved		*	*	NA					NA
Manganese	7439-96-5	50	17	23	17	18.6	18.3	20.7	39.1 J
Manganese Dissolved		*	*	NA					
Mercury	7439-97-6	2	0.12	NA					0.26
Mercury Dissolved		*	*	NA					NA
Nickel	7440-02-0	100	*	NA					50.6 J
Nickel Dissolved		*	*	NA					NA
Potassium	7440-09-7	*	5400	NA					1720
Potassium Dissolved		*	*	NA					NA
Selenium	7782-49-2	50	9.7	NA					11.7
Selenium Dissolved		*	*	NA					NA
Sodium	7440-23-5	160000	18222	NA					4850
Sodium Dissolved		*	*	NA					NA
Thallium	7440-28-0	2	3.8	NA					
Thallium Dissolved		*	*	NA					NA
Vanadium	7440-62-2	49	20.6	NA					132 J
Vanadium Dissolved		*	*	NA					NA
Zinc	7440-66-6	5000	4	NA					47.9 J
Zinc Dissolved		*	*	NA					NA
Water Chemistry (mg/L)									NA
Alkalinity		*		100	78	75	75	81	
Chloride	16887-00-6	250,000		51	40	41	40	49.6	
Dissolved Organic Carbon		*		28	26	7.8	7.6	NA	
Nitrate	14797-55-8	10,000							
Orthophosphate		*					0.14		
Sulfate	14808-79-8	250,000		8.3	9.3	12	12		
Dissolved Gases (mg/L)							NA		NA
Carbon Dioxide	124-38-9	*		174.7	422.1	377.8		184.2	
Hydrogen (nm/L)	1333-74-0	*		1.7	2.2	0.8		1 J	
Nitrogen	7727-37-9	*		10.3	6.5	6		5.7	
Oxygen	7782-44-7	*		0.57	0.32	0.2			
Volatile Gases (µg/L)							NA		NA
Ethane	74-84-0	*		0.06	0.3			0.03	
Ethene	74-85-1	*		0.02	0.2	0.18			
Methane	74-82-8	*		1069.1	5672.6	3143.8		881.2	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-04B	OLD-OU2-05A			OLD-OU2-05B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW04B02	NTCOU2G05A04	NTCOU2G05A06	NTCOU2G05A08	OU2MW05B02	NTCOU2G05B04
Sample Date				9/23/99	3/27/02	9/11/02	3/26/03	7/13/99	3/27/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7				0.4 J			
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	560000 J	NA			1070	NA
Aluminum Dissolved		*	*	NA	NA			NA	NA
Antimony	7440-36-0	6	4.1		NA				NA
Antimony Dissolved		*	*	NA	NA			NA	NA
Arsenic	7440-38-2	50	5	27.1 J	NA				NA
Arsenic Dissolved		*	*	NA	NA			NA	NA
Barium	7440-39-3	2000	31.4	2270 J	NA			59.4	NA
Barium Dissolved		*	*	NA	NA			NA	NA
Beryllium	7440-41-7	4	*	10.3 J	NA				NA
Beryllium Dissolved		*	*	NA	NA			NA	NA
Calcium	7440-70-2	*	36830	44600 J	NA				NA
Calcium Dissolved		*	*	NA	NA			NA	NA
Chromium	7440-47-3	100	7.8	449 J	NA				NA
Chromium Dissolved		*	*	NA	NA			NA	NA
Cobalt	7440-48-4	420	*	39 J	NA				NA
Cobalt Dissolved		*	*	NA	NA			NA	NA
Copper	7440-50-8	1000	5.4	33.9 J	NA				NA
Copper Dissolved		*	*	NA	NA			NA	NA
Iron	7439-89-6	300	1227	52200 J	NA	3350	2490	1130	NA
Iron Dissolved		*	*		2110				1020
Lead	7439-92-1	15	4	284 J	NA				NA
Lead Dissolved		*	*	NA	NA			NA	NA
Magnesium	7439-95-4	*	4560	15400 J	NA			1700	NA
Magnesium Dissolved		*	*	NA	NA			NA	NA
Manganese	7439-96-5	50	17	164 J	NA	1.2			NA
Manganese Dissolved		*	*		1.1				4.3
Mercury	7439-97-6	2	0.12	3.5	NA				NA
Mercury Dissolved		*	*	NA	NA			NA	NA
Nickel	7440-02-0	100	*	288 J	NA				NA
Nickel Dissolved		*	*	NA	NA			NA	NA
Potassium	7440-09-7	*	5400	20900	NA				NA
Potassium Dissolved		*	*	NA	NA			NA	NA
Selenium	7782-49-2	50	9.7	31.8	NA				NA
Selenium Dissolved		*	*	NA	NA			NA	NA
Sodium	7440-23-5	160000	18222	29300	NA				NA
Sodium Dissolved		*	*	NA	NA			NA	NA
Thallium	7440-28-0	2	3.8	1.8	NA				NA
Thallium Dissolved		*	*	NA	NA			NA	NA
Vanadium	7440-62-2	49	20.6	668 J	NA				NA
Vanadium Dissolved		*	*	NA	NA			NA	NA
Zinc	7440-66-6	5000	4	178 J	NA				NA
Zinc Dissolved		*	*	NA	NA			NA	NA
Water Chemistry (mg/L)				NA		NA	NA	NA	NA
Alkalinity		*			NA				
Chloride	16887-00-6	250,000			40				
Dissolved Organic Carbon		*			NA				
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000			2				
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-05B		OLD-OU2-06A			
Sample ID		Florida	NTC	NTCOU2G05B06	NTCOU2G05B08	OU2MW06A02	NTCOU2G06A04	NTCOU2G06A06	NTCOU2G06A08
Sample Date		GCTL[b]	BGSV[c]	9/11/02	3/26/03	7/29/99	3/28/02	9/12/02	3/26/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7						0.6 J	
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067			2490	NA		
Aluminum Dissolved		*	*			NA	NA		
Antimony	7440-36-0	6	4.1				NA		
Antimony Dissolved		*	*			NA	NA		
Arsenic	7440-38-2	50	5			6.9	NA		
Arsenic Dissolved		*	*			NA	NA		
Barium	7440-39-3	2000	31.4			137	NA		
Barium Dissolved		*	*			NA	NA		
Beryllium	7440-41-7	4	*				NA		
Beryllium Dissolved		*	*			NA	NA		
Calcium	7440-70-2	*	36830			10600	NA		
Calcium Dissolved		*	*			NA	NA		
Chromium	7440-47-3	100	7.8				NA		
Chromium Dissolved		*	*			NA	NA		
Cobalt	7440-48-4	420	*			1.3	NA		
Cobalt Dissolved		*	*			NA	NA		
Copper	7440-50-8	1000	5.4				NA		
Copper Dissolved		*	*			NA	NA		
Iron	7439-89-6	300	1227	998	942	2990	NA	3010	3190
Iron Dissolved		*	*				1500		
Lead	7439-92-1	15	4				NA		
Lead Dissolved		*	*			NA	NA		
Magnesium	7439-95-4	*	4560			3910	NA		
Magnesium Dissolved		*	*			NA	NA		
Manganese	7439-96-5	50	17	3.7	3.1		NA	3.9	1.2
Manganese Dissolved		*	*				5.9		
Mercury	7439-97-6	2	0.12				NA		
Mercury Dissolved		*	*			NA	NA		
Nickel	7440-02-0	100	*				NA		
Nickel Dissolved		*	*			NA	NA		
Potassium	7440-09-7	*	5400			15100	NA		
Potassium Dissolved		*	*			NA	NA		
Selenium	7782-49-2	50	9.7				NA		
Selenium Dissolved		*	*			NA	NA		
Sodium	7440-23-5	160000	18222			78700	NA		
Sodium Dissolved		*	*			NA	NA		
Thallium	7440-28-0	2	3.8				NA		
Thallium Dissolved		*	*			NA	NA		
Vanadium	7440-62-2	49	20.6			22.2	NA		
Vanadium Dissolved		*	*			NA	NA		
Zinc	7440-66-6	5000	4				NA		
Zinc Dissolved		*	*			NA	NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-06B	OLD-OU2-07A	OLD-OU2-07B			
Sample ID		Florida	NTC	OU2MW06B02	OU2MW07A02	OU2MW07B02	NTCOU2G07B04	NTCOU2G07B06	NTCOU2G07B08
Sample Date		GCTL[b]	BGSV[c]	9/22/99	9/22/99	7/20/99	3/26/02	9/12/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	1110000 J	48700 J	1050	NA		
Aluminum Dissolved		*	*	NA	NA	NA	NA		
Antimony	7440-36-0	6	4.1				NA		
Antimony Dissolved		*	*	NA	NA	NA	NA		
Arsenic	7440-38-2	50	5	121	3.5		NA		
Arsenic Dissolved		*	*	NA	NA	NA	NA		
Barium	7440-39-3	2000	31.4	12400 J	161 J	20.3	NA		
Barium Dissolved		*	*	NA	NA	NA	NA		
Beryllium	7440-41-7	4	*	55.9 J			NA		
Beryllium Dissolved		*	*	NA	NA	NA	NA		
Calcium	7440-70-2	*	36830	179000 J	4600 J	3550	NA		
Calcium Dissolved		*	*	NA	NA	NA	NA		
Chromium	7440-47-3	100	7.8	1490 J	38.5 J		NA		
Chromium Dissolved		*	*	NA	NA	NA	NA		
Cobalt	7440-48-4	420	*				NA		
Cobalt Dissolved		*	*	NA	NA	NA	NA		
Copper	7440-50-8	1000	5.4	363	9.7		NA		
Copper Dissolved		*	*	NA	NA	NA	NA		
Iron	7439-89-6	300	1227	127000 J	4290 J	696	NA	841	911
Iron Dissolved		*	*				1120		
Lead	7439-92-1	15	4	724 J	24.1 J		NA		
Lead Dissolved		*	*	NA	NA	NA	NA		
Magnesium	7439-95-4	*	4560	57000 J	2360 J	677	NA		
Magnesium Dissolved		*	*	NA	NA	NA	NA		
Manganese	7439-96-5	50	17	368 J	11 J		NA	2.6	1.5
Manganese Dissolved		*	*						
Mercury	7439-97-6	2	0.12	5.6	0.13		NA		
Mercury Dissolved		*	*	NA	NA	NA	NA		
Nickel	7440-02-0	100	*	188 J	15.5 J		NA		
Nickel Dissolved		*	*	NA	NA	NA	NA		
Potassium	7440-09-7	*	5400	61500	1500	522	NA		
Potassium Dissolved		*	*	NA	NA	NA	NA		
Selenium	7782-49-2	50	9.7	87.2			NA		
Selenium Dissolved		*	*	NA	NA	NA	NA		
Sodium	7440-23-5	160000	18222	82000	6900	5570	NA		
Sodium Dissolved		*	*	NA	NA	NA	NA		
Thallium	7440-28-0	2	3.8	4.2			NA		
Thallium Dissolved		*	*	NA	NA	NA	NA		
Vanadium	7440-62-2	49	20.6	1120 J	49.8 J		NA		
Vanadium Dissolved		*	*	NA	NA	NA	NA		
Zinc	7440-66-6	5000	4	224 J			NA		
Zinc Dissolved		*	*	NA	NA	NA	NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-08A					OLD-OU2-08B
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW08A02	NTCOU2G08A04	NTCOU2G08A04-D	NTCOU2G08A06	NTCOU2G08A08	OU2MW08B02
Sample Date				9/23/99	3/28/02	3/28/02	9/11/02	3/25/03	7/15/99
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	4500 J	NA	NA			507
Aluminum Dissolved		*	*	NA	NA	NA			NA
Antimony	7440-36-0	6	4.1		NA	NA			
Antimony Dissolved		*	*	NA	NA	NA			NA
Arsenic	7440-38-2	50	5		NA	NA			2.7
Arsenic Dissolved		*	*	NA	NA	NA			NA
Barium	7440-39-3	2000	31.4	52.5 J	NA	NA			17.7
Barium Dissolved		*	*	NA	NA	NA			NA
Beryllium	7440-41-7	4	*		NA	NA			
Beryllium Dissolved		*	*	NA	NA	NA			NA
Calcium	7440-70-2	*	36830	74700 J	NA	NA			4000
Calcium Dissolved		*	*	NA	NA	NA			NA
Chromium	7440-47-3	100	7.8		NA	NA			
Chromium Dissolved		*	*	NA	NA	NA			NA
Cobalt	7440-48-4	420	*		NA	NA			
Cobalt Dissolved		*	*	NA	NA	NA			NA
Copper	7440-50-8	1000	5.4		NA	NA			
Copper Dissolved		*	*	NA	NA	NA			NA
Iron	7439-89-6	300	1227	327 J	NA	NA	183[d]	991	1620 J
Iron Dissolved		*	*		269	263			
Lead	7439-92-1	15	4		NA	NA			
Lead Dissolved		*	*	NA	NA	NA			NA
Magnesium	7439-95-4	*	4560	4090 J	NA	NA			2530
Magnesium Dissolved		*	*	NA	NA	NA			NA
Manganese	7439-96-5	50	17	11.8 J	NA	NA	7.2[d]	1.5	
Manganese Dissolved		*	*		12.8	12.2			
Mercury	7439-97-6	2	0.12		NA	NA			
Mercury Dissolved		*	*	NA	NA	NA			NA
Nickel	7440-02-0	100	*		NA	NA			
Nickel Dissolved		*	*	NA	NA	NA			NA
Potassium	7440-09-7	*	5400	4060	NA	NA			1260
Potassium Dissolved		*	*	NA	NA	NA			NA
Selenium	7782-49-2	50	9.7		NA	NA			
Selenium Dissolved		*	*	NA	NA	NA			NA
Sodium	7440-23-5	160000	18222	15300	NA	NA			9900
Sodium Dissolved		*	*	NA	NA	NA			NA
Thallium	7440-28-0	2	3.8		NA	NA			
Thallium Dissolved		*	*	NA	NA	NA			NA
Vanadium	7440-62-2	49	20.6	7.4 J	NA	NA			
Vanadium Dissolved		*	*	NA	NA	NA			NA
Zinc	7440-66-6	5000	4		NA	NA			
Zinc Dissolved		*	*	NA	NA	NA			NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-08B			OLD-OU2-09A		
Sample ID		Florida	NTC	NTCOU2G08B04	NTCOU2G08B06	NTCOU2G08B08	OU2MW09A02	NTCOU2G09A04	NTCOU2G09A06
Sample Date		GCTL[b]	BGSV[c]	3/28/02	9/11/02	3/25/03	7/16/99	3/26/02	9/11/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70			0.3 J				
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		0.5 J	0.2 J				
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							0.3 J
cis-1,2-Dichloroethene	156-59-2	70		0.4 J					
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50		0.6 J	0.5 J				
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3			1				
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA			754	NA	
Aluminum Dissolved		*	*	NA			NA	NA	
Antimony	7440-36-0	6	4.1	NA				NA	
Antimony Dissolved		*	*	NA			NA	NA	
Arsenic	7440-38-2	50	5	NA				NA	
Arsenic Dissolved		*	*	NA			NA	NA	
Barium	7440-39-3	2000	31.4	NA			35.2	NA	
Barium Dissolved		*	*	NA			NA	NA	
Beryllium	7440-41-7	4	*	NA				NA	
Beryllium Dissolved		*	*	NA			NA	NA	
Calcium	7440-70-2	*	36830	NA			10500	NA	
Calcium Dissolved		*	*	NA			NA	NA	
Chromium	7440-47-3	100	7.8	NA				NA	
Chromium Dissolved		*	*	NA			NA	NA	
Cobalt	7440-48-4	420	*	NA				NA	
Cobalt Dissolved		*	*	NA			NA	NA	
Copper	7440-50-8	1000	5.4	NA				NA	
Copper Dissolved		*	*	NA			NA	NA	
Iron	7439-89-6	300	1227	NA	982	243	255 J	NA	234
Iron Dissolved		*	*	1180				410	
Lead	7439-92-1	15	4	NA				NA	
Lead Dissolved		*	*	NA			NA	NA	
Magnesium	7439-95-4	*	4560	NA			4880	NA	
Magnesium Dissolved		*	*	NA			NA	NA	
Manganese	7439-96-5	50	17	NA	3.7	3.1		NA	0.7
Manganese Dissolved		*	*	4.4					
Mercury	7439-97-6	2	0.12	NA				NA	
Mercury Dissolved		*	*	NA			NA	NA	
Nickel	7440-02-0	100	*	NA				NA	
Nickel Dissolved		*	*	NA			NA	NA	
Potassium	7440-09-7	*	5400	NA			9130	NA	
Potassium Dissolved		*	*	NA			NA	NA	
Selenium	7782-49-2	50	9.7	NA				NA	
Selenium Dissolved		*	*	NA			NA	NA	
Sodium	7440-23-5	160000	18222	NA			60600	NA	
Sodium Dissolved		*	*	NA			NA	NA	
Thallium	7440-28-0	2	3.8	NA				NA	
Thallium Dissolved		*	*	NA			NA	NA	
Vanadium	7440-62-2	49	20.6	NA			25.6	NA	
Vanadium Dissolved		*	*	NA			NA	NA	
Zinc	7440-66-6	5000	4	NA				NA	
Zinc Dissolved		*	*	NA			NA	NA	
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-09A	OLD-OU2-09B				OLD-OU2-10A
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G09A08	OU2MW09B02	NTCOU2G09B04	NTCOU2G09B06	NTCOU2G09B08	OU2MW10A02
Sample Date				3/26/03	7/16/99	3/26/02	9/11/02	3/26/03	6/27/99
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7					0.9 J		
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		1290	NA			2300
Aluminum Dissolved		*	*		NA	NA			NA
Antimony	7440-36-0	6	4.1			NA			
Antimony Dissolved		*	*		NA	NA			NA
Arsenic	7440-38-2	50	5			NA			2.6
Arsenic Dissolved		*	*		NA	NA			NA
Barium	7440-39-3	2000	31.4		27.8	NA			
Barium Dissolved		*	*		NA	NA			NA
Beryllium	7440-41-7	4	*			NA			
Beryllium Dissolved		*	*		NA	NA			NA
Calcium	7440-70-2	*	36830		16100	NA			
Calcium Dissolved		*	*		NA	NA			NA
Chromium	7440-47-3	100	7.8			NA			
Chromium Dissolved		*	*		NA	NA			NA
Cobalt	7440-48-4	420	*			NA			
Cobalt Dissolved		*	*		NA	NA			NA
Copper	7440-50-8	1000	5.4			NA			
Copper Dissolved		*	*		NA	NA			NA
Iron	7439-89-6	300	1227	382	3340 J	NA	2010	484	
Iron Dissolved		*	*			1440			
Lead	7439-92-1	15	4			NA			
Lead Dissolved		*	*		NA	NA			NA
Magnesium	7439-95-4	*	4560		2990	NA			
Magnesium Dissolved		*	*		NA	NA			NA
Manganese	7439-96-5	50	17		7.3	NA	9.7	5.9	
Manganese Dissolved		*	*			8.9			
Mercury	7439-97-6	2	0.12			NA			
Mercury Dissolved		*	*		NA	NA			NA
Nickel	7440-02-0	100	*			NA			
Nickel Dissolved		*	*		NA	NA			NA
Potassium	7440-09-7	*	5400		1280	NA			
Potassium Dissolved		*	*		NA	NA			NA
Selenium	7782-49-2	50	9.7			NA			
Selenium Dissolved		*	*		NA	NA			NA
Sodium	7440-23-5	160000	18222		24400	NA			
Sodium Dissolved		*	*		NA	NA			NA
Thallium	7440-28-0	2	3.8			NA			
Thallium Dissolved		*	*		NA	NA			NA
Vanadium	7440-62-2	49	20.6			NA			
Vanadium Dissolved		*	*		NA	NA			NA
Zinc	7440-66-6	5000	4			NA			
Zinc Dissolved		*	*		NA	NA			NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-10B	OLD-OU2-11A				
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW10B02	OU2MW11A02	NTCOU2G11A04	NTCOU2G11A04-D	NTCOU2G11A06	NTCOU2G11A08
Sample Date				6/27/99	7/31/99	3/27/02	3/27/02	9/11/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20						0.2 J	
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		1740 J	NA	NA		
Aluminum Dissolved		*	*	NA	NA	NA	NA		
Antimony	7440-36-0	6	4.1			NA	NA		
Antimony Dissolved		*	*	NA	NA	NA	NA		
Arsenic	7440-38-2	50	5		2.2	NA	NA		
Arsenic Dissolved		*	*	NA	NA	NA	NA		
Barium	7440-39-3	2000	31.4		31.2	NA	NA		
Barium Dissolved		*	*	NA	NA	NA	NA		
Beryllium	7440-41-7	4	*			NA	NA		
Beryllium Dissolved		*	*	NA	NA	NA	NA		
Calcium	7440-70-2	*	36830	16300	2780	NA	NA		
Calcium Dissolved		*	*	NA	NA	NA	NA		
Chromium	7440-47-3	100	7.8			NA	NA		
Chromium Dissolved		*	*	NA	NA	NA	NA		
Cobalt	7440-48-4	420	*			NA	NA		
Cobalt Dissolved		*	*	NA	NA	NA	NA		
Copper	7440-50-8	1000	5.4		1.7	NA	NA		
Copper Dissolved		*	*	NA	NA	NA	NA		
Iron	7439-89-6	300	1227	1590	1770	NA	NA	1000	
Iron Dissolved		*	*			2700	2600		
Lead	7439-92-1	15	4			NA	NA		
Lead Dissolved		*	*	NA	NA	NA	NA		
Magnesium	7439-95-4	*	4560	1630	2310	NA	NA		
Magnesium Dissolved		*	*	NA	NA	NA	NA		
Manganese	7439-96-5	50	17			NA	NA	6.2	3.8
Manganese Dissolved		*	*			3.6	3.6		
Mercury	7439-97-6	2	0.12			NA	NA		
Mercury Dissolved		*	*	NA	NA	NA	NA		
Nickel	7440-02-0	100	*		1.9	NA	NA		
Nickel Dissolved		*	*	NA	NA	NA	NA		
Potassium	7440-09-7	*	5400		541 J	NA	NA		
Potassium Dissolved		*	*	NA	NA	NA	NA		
Selenium	7782-49-2	50	9.7			NA	NA		
Selenium Dissolved		*	*	NA	NA	NA	NA		
Sodium	7440-23-5	160000	18222		7330	NA	NA		
Sodium Dissolved		*	*	NA	NA	NA	NA		
Thallium	7440-28-0	2	3.8			NA	NA		
Thallium Dissolved		*	*	NA	NA	NA	NA		
Vanadium	7440-62-2	49	20.6			NA	NA		
Vanadium Dissolved		*	*	NA	NA	NA	NA		
Zinc	7440-66-6	5000	4			NA	NA		
Zinc Dissolved		*	*	NA	NA	NA	NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-11B	OLD-OU2-12A			OLD-OU2-12B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW11B02	NTCOU2G12A04	NTCOU2G12A06	NTCOU2G12A08	OU2MW12B02	NTCOU2G12B04
Sample Date				9/22/99	3/24/02	9/11/02	3/25/03	7/29/99	3/25/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		7.6				1.3	
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700						1.4	0.5 J
Chlorobenzene	108-90-7	100		4					
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7				0.4 J			
cis-1,2-Dichloroethene	156-59-2	70		39				0.26 J	
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3						5.1 J	0.9 J
Toluene	108-88-3	40		1.2					
Total Xylenes	1330-20-7	20		11					
Trans-1,2-Dichloroethene	156-60-5	100		12					
Trichloroethene	79-01-6	3		1.2				0.71 J	2
Vinyl Chloride	75-01-4	1		16				0.64 J	
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	21400 J	NA			581	NA
Aluminum Dissolved		*	*	NA	NA			NA	NA
Antimony	7440-36-0	6	4.1		NA				NA
Antimony Dissolved		*	*	NA	NA			NA	NA
Arsenic	7440-38-2	50	5		NA				NA
Arsenic Dissolved		*	*	NA	NA			NA	NA
Barium	7440-39-3	2000	31.4	260 J	NA			8.4	NA
Barium Dissolved		*	*	NA	NA			NA	NA
Beryllium	7440-41-7	4	*		NA				NA
Beryllium Dissolved		*	*	NA	NA			NA	NA
Calcium	7440-70-2	*	36830	24700 J	NA			13100	NA
Calcium Dissolved		*	*	NA	NA			NA	NA
Chromium	7440-47-3	100	7.8	25.5 J	NA				NA
Chromium Dissolved		*	*	NA	NA			NA	NA
Cobalt	7440-48-4	420	*		NA				NA
Cobalt Dissolved		*	*	NA	NA			NA	NA
Copper	7440-50-8	1000	5.4	6.7	NA				NA
Copper Dissolved		*	*	NA	NA			NA	NA
Iron	7439-89-6	300	1227	5290 J	NA	434	323	2640	NA
Iron Dissolved		*	*		356				1270
Lead	7439-92-1	15	4	12 J	NA				NA
Lead Dissolved		*	*	NA	NA			NA	NA
Magnesium	7439-95-4	*	4560	4320 J	NA			1370	NA
Magnesium Dissolved		*	*	NA	NA			NA	NA
Manganese	7439-96-5	50	17	21 J	NA	1.8		23.3	NA
Manganese Dissolved		*	*						8.9
Mercury	7439-97-6	2	0.12		NA				NA
Mercury Dissolved		*	*	NA	NA			NA	NA
Nickel	7440-02-0	100	*		NA				NA
Nickel Dissolved		*	*	NA	NA			NA	NA
Potassium	7440-09-7	*	5400	11400	NA			1600	NA
Potassium Dissolved		*	*	NA	NA			NA	NA
Selenium	7782-49-2	50	9.7		NA				NA
Selenium Dissolved		*	*	NA	NA			NA	NA
Sodium	7440-23-5	160000	18222	22400	NA			9110	NA
Sodium Dissolved		*	*	NA	NA			NA	NA
Thallium	7440-28-0	2	3.8		NA				NA
Thallium Dissolved		*	*	NA	NA			NA	NA
Vanadium	7440-62-2	49	20.6	25.8 J	NA			3.1	NA
Vanadium Dissolved		*	*	NA	NA			NA	NA
Zinc	7440-66-6	5000	4	1550 J	NA				NA
Zinc Dissolved		*	*	NA	NA			NA	NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-12B			OLD-OU2-13A		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G12B04-D	NTCOU2G12B06	NTCOU2G12B08	OU2MW13A02	NTCOU2G13A06	NTCOU2G13A08
Sample Date				3/25/02	9/11/02	3/25/03	6/26/99	9/11/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		1	0.2 J				
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100		0.9 J					
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7						0.4 J	
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3		1					
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA			887		
Aluminum Dissolved		*	*	NA			NA		
Antimony	7440-36-0	6	4.1	NA					
Antimony Dissolved		*	*	NA			NA		
Arsenic	7440-38-2	50	5	NA					
Arsenic Dissolved		*	*	NA			NA		
Barium	7440-39-3	2000	31.4	NA			24.6		
Barium Dissolved		*	*	NA			NA		
Beryllium	7440-41-7	4	*	NA					
Beryllium Dissolved		*	*	NA			NA		
Calcium	7440-70-2	*	36830	NA			11200		
Calcium Dissolved		*	*	NA			NA		
Chromium	7440-47-3	100	7.8	NA					
Chromium Dissolved		*	*	NA			NA		
Cobalt	7440-48-4	420	*	NA					
Cobalt Dissolved		*	*	NA			NA		
Copper	7440-50-8	1000	5.4	NA					
Copper Dissolved		*	*	NA			NA		
Iron	7439-89-6	300	1227	NA	1060	1020			
Iron Dissolved		*	*	1320			NA		
Lead	7439-92-1	15	4	NA					
Lead Dissolved		*	*	NA			NA		
Magnesium	7439-95-4	*	4560	NA					
Magnesium Dissolved		*	*	NA			NA		
Manganese	7439-96-5	50	17	NA	7.5	8.4			
Manganese Dissolved		*	*	9.2			NA		
Mercury	7439-97-6	2	0.12	NA					
Mercury Dissolved		*	*	NA			NA		
Nickel	7440-02-0	100	*	NA					
Nickel Dissolved		*	*	NA			NA		
Potassium	7440-09-7	*	5400	NA			5620 J		
Potassium Dissolved		*	*	NA			NA		
Selenium	7782-49-2	50	9.7	NA					
Selenium Dissolved		*	*	NA			NA		
Sodium	7440-23-5	160000	18222	NA			24500 J		
Sodium Dissolved		*	*	NA			NA		
Thallium	7440-28-0	2	3.8	NA					
Thallium Dissolved		*	*	NA			NA		
Vanadium	7440-62-2	49	20.6	NA					
Vanadium Dissolved		*	*	NA			NA		
Zinc	7440-66-6	5000	4	NA					
Zinc Dissolved		*	*	NA			NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-13B				
Sample ID		Florida	NTC	OU2MW13B02	NTCOU2G13B04	NTCOU2G13B04-D	NTCOU2G13B06	NTCOU2G13B08
Sample Date		GCTL[b]	BGSV[c]	6/26/99	3/26/02	3/26/02	9/11/02	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70						
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70						
Ethylbenzene	100-41-4	30						
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	395	NA	NA		
Aluminum Dissolved		*	*	NA	NA	NA		
Antimony	7440-36-0	6	4.1	2.4	NA	NA		
Antimony Dissolved		*	*	NA	NA	NA		
Arsenic	7440-38-2	50	5		NA	NA		
Arsenic Dissolved		*	*	NA	NA	NA		
Barium	7440-39-3	2000	31.4		NA	NA		
Barium Dissolved		*	*	NA	NA	NA		
Beryllium	7440-41-7	4	*		NA	NA		
Beryllium Dissolved		*	*	NA	NA	NA		
Calcium	7440-70-2	*	36830	9410	NA	NA		
Calcium Dissolved		*	*	NA	NA	NA		
Chromium	7440-47-3	100	7.8		NA	NA		
Chromium Dissolved		*	*	NA	NA	NA		
Cobalt	7440-48-4	420	*		NA	NA		
Cobalt Dissolved		*	*	NA	NA	NA		
Copper	7440-50-8	1000	5.4		NA	NA		
Copper Dissolved		*	*	NA	NA	NA		
Iron	7439-89-6	300	1227	1210	NA	NA	1230	1400
Iron Dissolved		*	*	NA	1550	1510		
Lead	7439-92-1	15	4		NA	NA		
Lead Dissolved		*	*	NA	NA	NA		
Magnesium	7439-95-4	*	4560	1540	NA	NA		
Magnesium Dissolved		*	*	NA	NA	NA		
Manganese	7439-96-5	50	17		NA	NA	7.4	8.5
Manganese Dissolved		*	*	NA	9.3	9.4		
Mercury	7439-97-6	2	0.12		NA	NA		
Mercury Dissolved		*	*	NA	NA	NA		
Nickel	7440-02-0	100	*		NA	NA		
Nickel Dissolved		*	*	NA	NA	NA		
Potassium	7440-09-7	*	5400		NA	NA		
Potassium Dissolved		*	*	NA	NA	NA		
Selenium	7782-49-2	50	9.7		NA	NA		
Selenium Dissolved		*	*	NA	NA	NA		
Sodium	7440-23-5	160000	18222		NA	NA		
Sodium Dissolved		*	*	NA	NA	NA		
Thallium	7440-28-0	2	3.8		NA	NA		
Thallium Dissolved		*	*	NA	NA	NA		
Vanadium	7440-62-2	49	20.6		NA	NA		
Vanadium Dissolved		*	*	NA	NA	NA		
Zinc	7440-66-6	5000	4		NA	NA		
Zinc Dissolved		*	*	NA	NA	NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA
Alkalinity		*						
Chloride	16887-00-6	250,000						
Dissolved Organic Carbon		*						
Nitrate	14797-55-8	10,000						
Orthophosphate		*						
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*						
Hydrogen (nm/L)	1333-74-0	*						
Nitrogen	7727-37-9	*						
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA	NA	NA	NA	NA
Ethane	74-84-0	*						
Ethene	74-85-1	*						
Methane	74-82-8	*						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-14A				OLD-OU2-14B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW14A02	NTCOU2G14A04	NTCOU2G14A06	NTCOU2G14A08	OU2MW14B02	NTCOU2G14B04
Sample Date				2/15/00	3/24/02	9/11/02	3/25/03	7/15/99	3/29/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		NA			832	NA
Aluminum Dissolved		*	*	NA	NA			NA	NA
Antimony	7440-36-0	6	4.1		NA				NA
Antimony Dissolved		*	*	NA	NA			NA	NA
Arsenic	7440-38-2	50	5		NA				NA
Arsenic Dissolved		*	*	NA	NA			NA	NA
Barium	7440-39-3	2000	31.4		NA			17.6	NA
Barium Dissolved		*	*	NA	NA			NA	NA
Beryllium	7440-41-7	4	*		NA				NA
Beryllium Dissolved		*	*	NA	NA			NA	NA
Calcium	7440-70-2	*	36830	3030	NA			10500	NA
Calcium Dissolved		*	*	NA	NA			NA	NA
Chromium	7440-47-3	100	7.8		NA				NA
Chromium Dissolved		*	*	NA	NA			NA	NA
Cobalt	7440-48-4	420	*		NA				NA
Cobalt Dissolved		*	*	NA	NA			NA	NA
Copper	7440-50-8	1000	5.4		NA				NA
Copper Dissolved		*	*	NA	NA			NA	NA
Iron	7439-89-6	300	1227	1540 J	NA	1000	214	2520 J	NA
Iron Dissolved		*	*		644				1240
Lead	7439-92-1	15	4		NA				NA
Lead Dissolved		*	*	NA	NA			NA	NA
Magnesium	7439-95-4	*	4560	2910	NA			2110	NA
Magnesium Dissolved		*	*	NA	NA			NA	NA
Manganese	7439-96-5	50	17		NA			7.7	NA
Manganese Dissolved		*	*						6.6
Mercury	7439-97-6	2	0.12		NA				NA
Mercury Dissolved		*	*	NA	NA			NA	NA
Nickel	7440-02-0	100	*		NA				NA
Nickel Dissolved		*	*	NA	NA			NA	NA
Potassium	7440-09-7	*	5400	634	NA			1320	NA
Potassium Dissolved		*	*	NA	NA			NA	NA
Selenium	7782-49-2	50	9.7		NA				NA
Selenium Dissolved		*	*	NA	NA			NA	NA
Sodium	7440-23-5	160000	18222		NA			9500	NA
Sodium Dissolved		*	*	NA	NA			NA	NA
Thallium	7440-28-0	2	3.8		NA				NA
Thallium Dissolved		*	*	NA	NA			NA	NA
Vanadium	7440-62-2	49	20.6		NA				NA
Vanadium Dissolved		*	*	NA	NA			NA	NA
Zinc	7440-66-6	5000	4		NA				NA
Zinc Dissolved		*	*	NA	NA			NA	NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-14B		OLD-OU2-15A	OLD-OU2-15B	OLD-OU2-16A	
Sample ID		Florida	NTC	NTCOU2G14B06	NTCOU2G14B08	OU2MW15A02	OU2MW15B02	OU2MW16A02	OU2MW16A02-D
Sample Date		GCTL[b]	BGSV[c]	9/11/02	3/25/03	7/27/99	7/27/99	6/30/99	6/30/99
Volatiles (µg/L)							NA		
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		0.2 J					
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067			764 J	375 J	912	862
Aluminum Dissolved		*	*			NA	NA	NA	NA
Antimony	7440-36-0	6	4.1						
Antimony Dissolved		*	*			NA	NA	NA	NA
Arsenic	7440-38-2	50	5						
Arsenic Dissolved		*	*			NA	NA	NA	NA
Barium	7440-39-3	2000	31.4			45.4		30.7	29.9
Barium Dissolved		*	*			NA	NA	NA	NA
Beryllium	7440-41-7	4	*						
Beryllium Dissolved		*	*			NA	NA	NA	NA
Calcium	7440-70-2	*	36830			3710 J	9090 J		
Calcium Dissolved		*	*			NA	NA	NA	NA
Chromium	7440-47-3	100	7.8						
Chromium Dissolved		*	*			NA	NA	NA	NA
Cobalt	7440-48-4	420	*						
Cobalt Dissolved		*	*			NA	NA	NA	NA
Copper	7440-50-8	1000	5.4						
Copper Dissolved		*	*			NA	NA	NA	NA
Iron	7439-89-6	300	1227	1790	2250	422	868	546	553
Iron Dissolved		*	*						
Lead	7439-92-1	15	4						
Lead Dissolved		*	*			NA	NA	NA	NA
Magnesium	7439-95-4	*	4560			1030	1380	2210	2150
Magnesium Dissolved		*	*			NA	NA	NA	NA
Manganese	7439-96-5	50	17	6.2	5.2				
Manganese Dissolved		*	*						
Mercury	7439-97-6	2	0.12						
Mercury Dissolved		*	*			NA	NA	NA	NA
Nickel	7440-02-0	100	*						
Nickel Dissolved		*	*			NA	NA	NA	NA
Potassium	7440-09-7	*	5400			6700	1030	9070 J	8800 J
Potassium Dissolved		*	*			NA	NA	NA	NA
Selenium	7782-49-2	50	9.7						
Selenium Dissolved		*	*			NA	NA	NA	NA
Sodium	7440-23-5	160000	18222			40400	6110	54100 J	52600 J
Sodium Dissolved		*	*			NA	NA	NA	NA
Thallium	7440-28-0	2	3.8						
Thallium Dissolved		*	*			NA	NA	NA	NA
Vanadium	7440-62-2	49	20.6						
Vanadium Dissolved		*	*			NA	NA	NA	NA
Zinc	7440-66-6	5000	4						
Zinc Dissolved		*	*			NA	NA	NA	NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-16B	OLD-OU2-17A				OLD-OU2-17B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	OU2MW16B02	OU2MW17A02	NTCOU2G17A04	NTCOU2G17A06	NTCOU2G17A08	OU2MW17B02	NTCOU2G17B04
Sample Date				6/28/99	6/29/99	3/26/02	9/12/02	3/25/03	6/29/99	3/26/02
Volatiles (µg/L)										
1,1,2-Trichloroethane	79-00-5	5								
1,1-Dichloroethane	75-34-3	70								
1,1-Dichloroethene	75-35-4	7								
1,2-Dichloroethane	107-06-2	3								
1,2-Dichloropropane	78-87-5	5								
2-Butanone	78-93-3	4200								
Acetone	67-64-1	700								
Benzene	71-43-2	1								
Bromodichloromethane	75-27-4	0.6								
Carbon Disulfide	75-15-0	700								
Chlorobenzene	108-90-7	100								
Chloroethane	75-00-3	12								
Chloroform	67-66-3	5.7				0.8 J				
Chlorodibromomethane	124-48-1	0.4								
Chloromethane	74-87-3	2.7					0.7 J			
cis-1,2-Dichloroethene	156-59-2	70								
Ethylbenzene	100-41-4	30								
Methyl *tert*-Butyl Ether	1634-04-4	50								
Tetrachloroethene	127-18-4	3								
Toluene	108-88-3	40								
Total Xylenes	1330-20-7	20								
Trans-1,2-Dichloroethene	156-60-5	100								
Trichloroethene	79-01-6	3								
Vinyl Chloride	75-01-4	1								
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	4160	2500	NA				NA
Aluminum Dissolved		*	*	NA	NA	NA			NA	NA
Antimony	7440-36-0	6	4.1	2.3	3	NA				NA
Antimony Dissolved		*	*	NA	NA	NA			NA	NA
Arsenic	7440-38-2	50	5			NA				NA
Arsenic Dissolved		*	*	NA	NA	NA			NA	NA
Barium	7440-39-3	2000	31.4	76.3		NA				NA
Barium Dissolved		*	*	NA	NA	NA			NA	NA
Beryllium	7440-41-7	4	*			NA				NA
Beryllium Dissolved		*	*	NA	NA	NA			NA	NA
Calcium	7440-70-2	*	36830	12400	26500	NA			9850	NA
Calcium Dissolved		*	*	NA	NA	NA			NA	NA
Chromium	7440-47-3	100	7.8	7.8		NA				NA
Chromium Dissolved		*	*	NA	NA	NA			NA	NA
Cobalt	7440-48-4	420	*			NA				NA
Cobalt Dissolved		*	*	NA	NA	NA			NA	NA
Copper	7440-50-8	1000	5.4			NA				NA
Copper Dissolved		*	*	NA	NA	NA			NA	NA
Iron	7439-89-6	300	1227	2380	333	NA			886	NA
Iron Dissolved		*	*							1460
Lead	7439-92-1	15	4			NA				NA
Lead Dissolved		*	*	NA	NA	NA			NA	NA
Magnesium	7439-95-4	*	4560	1480	8320	NA			2330	NA
Magnesium Dissolved		*	*	NA	NA	NA			NA	NA
Manganese	7439-96-5	50	17			NA				NA
Manganese Dissolved		*	*							8.4
Mercury	7439-97-6	2	0.12			NA				NA
Mercury Dissolved		*	*	NA	NA	NA			NA	NA
Nickel	7440-02-0	100	*			NA				NA
Nickel Dissolved		*	*	NA	NA	NA			NA	NA
Potassium	7440-09-7	*	5400		10700 J	NA				NA
Potassium Dissolved		*	*	NA	NA	NA			NA	NA
Selenium	7782-49-2	50	9.7			NA				NA
Selenium Dissolved		*	*	NA	NA	NA			NA	NA
Sodium	7440-23-5	160000	18222		51700 J	NA				NA
Sodium Dissolved		*	*	NA	NA	NA			NA	NA
Thallium	7440-28-0	2	3.8			NA				NA
Thallium Dissolved		*	*	NA	NA	NA			NA	NA
Vanadium	7440-62-2	49	20.6			NA				NA
Vanadium Dissolved		*	*	NA	NA	NA			NA	NA
Zinc	7440-66-6	5000	4			NA				NA
Zinc Dissolved		*	*	NA	NA	NA			NA	NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA	NA
Alkalinity		*								
Chloride	16887-00-6	250,000								
Dissolved Organic Carbon		*								
Nitrate	14797-55-8	10,000								
Orthophosphate		*								
Sulfate	14808-79-8	250,000								
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*								
Hydrogen (nm/L)	1333-74-0	*								
Nitrogen	7727-37-9	*								
Oxygen	7782-44-7	*								
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*								
Ethene	74-85-1	*								
Methane	74-82-8	*								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-17B		OLD-OU2-18A			
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G17B06	NTCOU2G17B08	OU2MW18A02	NTCOU2G18A04	NTCOU2G18A06	NTCOU2G18A08
Sample Date				9/12/02	3/25/03	7/16/99	3/24/02	9/12/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700			3 J				
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7		0.5 J				0.5 J	
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067			527	NA		
Aluminum Dissolved		*	*			NA	NA		
Antimony	7440-36-0	6	4.1				NA		
Antimony Dissolved		*	*			NA	NA		
Arsenic	7440-38-2	50	5				NA		
Arsenic Dissolved		*	*			NA	NA		
Barium	7440-39-3	2000	31.4			103	NA		
Barium Dissolved		*	*			NA	NA		
Beryllium	7440-41-7	4	*				NA		
Beryllium Dissolved		*	*			NA	NA		
Calcium	7440-70-2	*	36830			5400	NA		
Calcium Dissolved		*	*			NA	NA		
Chromium	7440-47-3	100	7.8				NA		
Chromium Dissolved		*	*			NA	NA		
Cobalt	7440-48-4	420	*				NA		
Cobalt Dissolved		*	*			NA	NA		
Copper	7440-50-8	1000	5.4				NA		
Copper Dissolved		*	*			NA	NA		
Iron	7439-89-6	300	1227	1270	1430	215 J	NA	110	
Iron Dissolved		*	*				376		
Lead	7439-92-1	15	4				NA		
Lead Dissolved		*	*			NA	NA		
Magnesium	7439-95-4	*	4560			1740	NA		
Magnesium Dissolved		*	*			NA	NA		
Manganese	7439-96-5	50	17	8.5	9.1		NA	2.1	
Manganese Dissolved		*	*				3.7		
Mercury	7439-97-6	2	0.12				NA		
Mercury Dissolved		*	*			NA	NA		
Nickel	7440-02-0	100	*				NA		
Nickel Dissolved		*	*			NA	NA		
Potassium	7440-09-7	*	5400			1100	NA		
Potassium Dissolved		*	*			NA	NA		
Selenium	7782-49-2	50	9.7				NA		
Selenium Dissolved		*	*			NA	NA		
Sodium	7440-23-5	160000	18222			2080	NA		
Sodium Dissolved		*	*			NA	NA		
Thallium	7440-28-0	2	3.8				NA		
Thallium Dissolved		*	*			NA	NA		
Vanadium	7440-62-2	49	20.6				NA		
Vanadium Dissolved		*	*			NA	NA		
Zinc	7440-66-6	5000	4				NA		
Zinc Dissolved		*	*			NA	NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-18B					
Sample ID		Florida	NTC	OU2MW18B02	NTCOU2G18B04	NTCOU2G18B05	NTCOU2G18B05-D	NTCOU2G18B05	NTCOU2G18B06
Sample Date		GCTL[b]	BGSV[c]	7/16/99	3/25/02	6/19/02	6/19/02	6/21/02	9/12/02
Volatiles (µg/L)								**NA**	
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							0.4 J
cis-1,2-Dichloroethene	156-59-2	70		66 J	11	5	6		34 J
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3		34 J	14	3	4		9
Toluene	108-88-3	40			0.5 J	0.6 J	0.5 J		
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3		1200 J	250	110	120		180
Vinyl Chloride	75-01-4	1		20 J	2		1 J		4
Inorganics (µg/L)								**NA**	
Aluminum	7429-90-5	200	4067	565	NA	NA	NA		
Aluminum Dissolved		*	*	NA	NA	NA	NA		
Antimony	7440-36-0	6	4.1		NA	NA	NA		
Antimony Dissolved		*	*	NA	NA	NA	NA		
Arsenic	7440-38-2	50	5	5.2	NA	NA	NA		
Arsenic Dissolved		*	*	NA	NA	NA	NA		
Barium	7440-39-3	2000	31.4	26.3	NA	NA	NA		
Barium Dissolved		*	*	NA	NA	NA	NA		
Beryllium	7440-41-7	4	*		NA	NA	NA		
Beryllium Dissolved		*	*	NA	NA	NA	NA		
Calcium	7440-70-2	*	36830	9350	NA	NA	NA		
Calcium Dissolved		*	*	NA	NA	NA	NA		
Chromium	7440-47-3	100	7.8		NA	NA	NA		
Chromium Dissolved		*	*	NA	NA	NA	NA		
Cobalt	7440-48-4	420	*		NA	NA	NA		
Cobalt Dissolved		*	*	NA	NA	NA	NA		
Copper	7440-50-8	1000	5.4		NA	NA	NA		
Copper Dissolved		*	*	NA	NA	NA	NA		
Iron	7439-89-6	300	1227	1580 J	NA	1280	1330		917
Iron Dissolved		*	*		1470	NA	NA		
Lead	7439-92-1	15	4		NA	NA	NA		
Lead Dissolved		*	*	NA	NA	NA	NA		
Magnesium	7439-95-4	*	4560	1520	NA	NA	NA		
Magnesium Dissolved		*	*	NA	NA	NA	NA		
Manganese	7439-96-5	50	17	3.6	NA	15.9	17.2		14.2
Manganese Dissolved		*	*		20.2	NA	NA		
Mercury	7439-97-6	2	0.12		NA	NA	NA		
Mercury Dissolved		*	*	NA	NA	NA	NA		
Nickel	7440-02-0	100	*		NA	NA	NA		
Nickel Dissolved		*	*	NA	NA	NA	NA		
Potassium	7440-09-7	*	5400	1290	NA	NA	NA		
Potassium Dissolved		*	*	NA	NA	NA	NA		
Selenium	7782-49-2	50	9.7		NA	NA	NA		
Selenium Dissolved		*	*	NA	NA	NA	NA		
Sodium	7440-23-5	160000	18222	7490	NA	NA	NA		
Sodium Dissolved		*	*	NA	NA	NA	NA		
Thallium	7440-28-0	2	3.8		NA	NA	NA		
Thallium Dissolved		*	*	NA	NA	NA	NA		
Vanadium	7440-62-2	49	20.6		NA	NA	NA		
Vanadium Dissolved		*	*	NA	NA	NA	NA		
Zinc	7440-66-6	5000	4		NA	NA	NA		
Zinc Dissolved		*	*	NA	NA	NA	NA		
Water Chemistry (mg/L)				**NA**					**NA**
Alkalinity		*				NA	NA	NA	
Chloride	16887-00-6	250,000			13	NA	NA	8 J	
Dissolved Organic Carbon		*			7.8	12	10	NA	
Nitrate	14797-55-8	10,000				NA	NA		
Orthophosphate		*							
Sulfate	14808-79-8	250,000			1	NA	NA	2	
Dissolved Gases (mg/L)				**NA**			**NA**	**NA**	
Carbon Dioxide	124-38-9	*			131.7	147.1			148.2
Hydrogen (nm/L)	1333-74-0	*			1.4	2.2			2.8
Nitrogen	7727-37-9	*			9.7	11.9			12.3
Oxygen	7782-44-7	*			0.45	0.36			0.81
Volatile Gases (µg/L)				**NA**			**NA**	**NA**	
Ethane	74-84-0	*			0.12	0.09			0.5
Ethene	74-85-1	*			1.03	1.12			1.53
Methane	74-82-8	*			461.3	395.4			768.9

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-18B				
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G18B06-D	NTCOU2G18B07	NTCOU2G18B07-D	NTCOU2G18B08	NTCOU2G18B08-D
Sample Date				9/12/02	12/16/02	12/16/02	3/25/03	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5					1.2	1.2
1,1-Dichloroethane	75-34-3	70				0.58 J		
1,1-Dichloroethene	75-35-4	7					1.6	1.6
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5			1.5 J			
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70		20 J	35 J	75 J	135	163
Ethylbenzene	100-41-4	30		0.2 J				
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3		10	17	21	80.1	74
Toluene	108-88-3	40			1.1 J	1.5 J	2	1.9
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3		190	580 J	1100 J	2850	3550
Vinyl Chloride	75-01-4	1		3	22	28	42	37.1
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067					
Aluminum Dissolved		*	*					
Antimony	7440-36-0	6	4.1					
Antimony Dissolved		*	*					
Arsenic	7440-38-2	50	5					
Arsenic Dissolved		*	*					
Barium	7440-39-3	2000	31.4					
Barium Dissolved		*	*					
Beryllium	7440-41-7	4	*					
Beryllium Dissolved		*	*					
Calcium	7440-70-2	*	36830					
Calcium Dissolved		*	*					
Chromium	7440-47-3	100	7.8					
Chromium Dissolved		*	*					
Cobalt	7440-48-4	420	*					
Cobalt Dissolved		*	*					
Copper	7440-50-8	1000	5.4					
Copper Dissolved		*	*					
Iron	7439-89-6	300	1227	955	979	1010	1020	915
Iron Dissolved		*	*					
Lead	7439-92-1	15	4					
Lead Dissolved		*	*					
Magnesium	7439-95-4	*	4560					
Magnesium Dissolved		*	*					
Manganese	7439-96-5	50	17	14.2	11.9	11.8	12	10.4
Manganese Dissolved		*	*					
Mercury	7439-97-6	2	0.12					
Mercury Dissolved		*	*					
Nickel	7440-02-0	100	*					
Nickel Dissolved		*	*					
Potassium	7440-09-7	*	5400					
Potassium Dissolved		*	*					
Selenium	7782-49-2	50	9.7					
Selenium Dissolved		*	*					
Sodium	7440-23-5	160000	18222					
Sodium Dissolved		*	*					
Thallium	7440-28-0	2	3.8					
Thallium Dissolved		*	*					
Vanadium	7440-62-2	49	20.6					
Vanadium Dissolved		*	*					
Zinc	7440-66-6	5000	4					
Zinc Dissolved		*	*					
Water Chemistry (mg/L)				NA				
Alkalinity		*			8.8 J	4.9 J	33.5 J	17 J
Chloride	16887-00-6	250,000			8.4	8.7		
Dissolved Organic Carbon		*			NA	NA	NA	NA
Nitrate	14797-55-8	10,000						
Orthophosphate		*			1.1	1.1	1.4	1.2
Sulfate	14808-79-8	250,000			3.7	3.5		
Dissolved Gases (mg/L)				NA		NA		NA
Carbon Dioxide	124-38-9	*			171.2		177.6	
Hydrogen (nm/L)	1333-74-0	*			1.3		2.3 J	
Nitrogen	7727-37-9	*			9.9		4.7	
Oxygen	7782-44-7	*			0.45			
Volatile Gases (µg/L)				NA		NA		NA
Ethane	74-84-0	*			0.25		0.43	
Ethene	74-85-1	*			3.35		5.11	
Methane	74-82-8	*			988.5		795.7	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-19A	OLD-OU2-19B	OLD-OU2-20A				OLD-OU2-20B
Sample ID		Florida	NTC	OU2MW19A02	OU2MW19B02	OU2MW20A02	NTCOU2G20A04	NTCOU2G20A06	NTCOU2G20A08	OU2MW20B02
Sample Date		GCTL[b]	BGSV[c]	6/29/99	6/29/99	7/21/99	3/26/02	9/12/02	3/26/03	7/21/99
Volatiles (µg/L)										
1,1,2-Trichloroethane	79-00-5	5								
1,1-Dichloroethane	75-34-3	70								
1,1-Dichloroethene	75-35-4	7								
1,2-Dichloroethane	107-06-2	3								
1,2-Dichloropropane	78-87-5	5								
2-Butanone	78-93-3	4200								
Acetone	67-64-1	700								
Benzene	71-43-2	1								
Bromodichloromethane	75-27-4	0.6								
Carbon Disulfide	75-15-0	700				0.87 J				
Chlorobenzene	108-90-7	100				0.16 J				
Chloroethane	75-00-3	12								
Chloroform	67-66-3	5.7								
Chlorodibromomethane	124-48-1	0.4								
Chloromethane	74-87-3	2.7				0.19 J				
cis-1,2-Dichloroethene	156-59-2	70								
Ethylbenzene	100-41-4	30								
Methyl *tert*-Butyl Ether	1634-04-4	50								
Tetrachloroethene	127-18-4	3								
Toluene	108-88-3	40								
Total Xylenes	1330-20-7	20								
Trans-1,2-Dichloroethene	156-60-5	100								
Trichloroethene	79-01-6	3								
Vinyl Chloride	75-01-4	1								
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	847	466	251	NA			1100
Aluminum Dissolved		*	*	NA	NA	NA	NA			NA
Antimony	7440-36-0	6	4.1	2.5			NA			
Antimony Dissolved		*	*	NA	NA	NA	NA			NA
Arsenic	7440-38-2	50	5				NA			
Arsenic Dissolved		*	*	NA	NA	NA	NA			NA
Barium	7440-39-3	2000	31.4	24.2	23.5		NA			16.8
Barium Dissolved		*	*	NA	NA	NA	NA			NA
Beryllium	7440-41-7	4	*				NA			
Beryllium Dissolved		*	*	NA	NA	NA	NA			NA
Calcium	7440-70-2	*	36830		13500	3170	NA			10500
Calcium Dissolved		*	*	NA	NA	NA	NA			NA
Chromium	7440-47-3	100	7.8				NA			
Chromium Dissolved		*	*	NA	NA	NA	NA			NA
Cobalt	7440-48-4	420	*				NA			
Cobalt Dissolved		*	*	NA	NA	NA	NA			NA
Copper	7440-50-8	1000	5.4		5.4		NA			
Copper Dissolved		*	*	NA	NA	NA	NA			NA
Iron	7439-89-6	300	1227	850	2190	544	NA	323	276	1150
Iron Dissolved		*	*				1380			
Lead	7439-92-1	15	4				NA			
Lead Dissolved		*	*	NA	NA	NA	NA			NA
Magnesium	7439-95-4	*	4560	2560	3020	1570	NA			1140
Magnesium Dissolved		*	*	NA	NA	NA	NA			NA
Manganese	7439-96-5	50	17				NA	1.3		
Manganese Dissolved		*	*							
Mercury	7439-97-6	2	0.12				NA			
Mercury Dissolved		*	*	NA	NA	NA	NA			NA
Nickel	7440-02-0	100	*				NA			
Nickel Dissolved		*	*	NA	NA	NA	NA			NA
Potassium	7440-09-7	*	5400			608	NA			1230
Potassium Dissolved		*	*	NA	NA	NA	NA			NA
Selenium	7782-49-2	50	9.7				NA			
Selenium Dissolved		*	*	NA	NA	NA	NA			NA
Sodium	7440-23-5	160000	18222			6270	NA			6990
Sodium Dissolved		*	*	NA	NA	NA	NA			NA
Thallium	7440-28-0	2	3.8				NA			
Thallium Dissolved		*	*	NA	NA	NA	NA			NA
Vanadium	7440-62-2	49	20.6			37.1	NA			
Vanadium Dissolved		*	*	NA	NA	NA	NA			NA
Zinc	7440-66-6	5000	4				NA			50.8
Zinc Dissolved		*	*	NA	NA	NA	NA			NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA		NA
Alkalinity		*							NA	
Chloride	16887-00-6	250,000								
Dissolved Organic Carbon		*							4.9	
Nitrate	14797-55-8	10,000								
Orthophosphate		*								
Sulfate	14808-79-8	250,000							20	
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*								
Hydrogen (nm/L)	1333-74-0	*								
Nitrogen	7727-37-9	*								
Oxygen	7782-44-7	*								
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*								
Ethene	74-85-1	*								
Methane	74-82-8	*								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-20B			OLD-OU2-21A		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G20B04	NTCOU2G20B06	NTCOU2G20B08	OU2MW21A02	NTCOU2G21A04	NTCOU2G21A05
Sample Date				3/26/02	9/12/02	3/26/03	7/27/99	3/26/02	6/20/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA			307 J	NA	NA
Aluminum Dissolved		*	*	NA			NA	NA	NA
Antimony	7440-36-0	6	4.1	NA				NA	NA
Antimony Dissolved		*	*	NA			NA	NA	NA
Arsenic	7440-38-2	50	5	NA				NA	NA
Arsenic Dissolved		*	*	NA			NA	NA	NA
Barium	7440-39-3	2000	31.4	NA				NA	NA
Barium Dissolved		*	*	NA			NA	NA	NA
Beryllium	7440-41-7	4	*	NA				NA	NA
Beryllium Dissolved		*	*	NA			NA	NA	NA
Calcium	7440-70-2	*	36830	NA			851 J	NA	NA
Calcium Dissolved		*	*	NA			NA	NA	NA
Chromium	7440-47-3	100	7.8	NA				NA	NA
Chromium Dissolved		*	*	NA			NA	NA	NA
Cobalt	7440-48-4	420	*	NA				NA	NA
Cobalt Dissolved		*	*	NA			NA	NA	NA
Copper	7440-50-8	1000	5.4	NA				NA	NA
Copper Dissolved		*	*	NA			NA	NA	NA
Iron	7439-89-6	300	1227	NA	1720	379	1140	NA	2130
Iron Dissolved		*	*	2730				802	NA
Lead	7439-92-1	15	4	NA				NA	NA
Lead Dissolved		*	*	NA			NA	NA	NA
Magnesium	7439-95-4	*	4560	NA			1590	NA	NA
Magnesium Dissolved		*	*	NA			NA	NA	NA
Manganese	7439-96-5	50	17	NA	6.5	1		NA	
Manganese Dissolved		*	*	10.1					NA
Mercury	7439-97-6	2	0.12	NA				NA	NA
Mercury Dissolved		*	*	NA			NA	NA	NA
Nickel	7440-02-0	100	*	NA				NA	NA
Nickel Dissolved		*	*	NA			NA	NA	NA
Potassium	7440-09-7	*	5400	NA				NA	NA
Potassium Dissolved		*	*	NA			NA	NA	NA
Selenium	7782-49-2	50	9.7	NA				NA	NA
Selenium Dissolved		*	*	NA			NA	NA	NA
Sodium	7440-23-5	160000	18222	NA			2440	NA	NA
Sodium Dissolved		*	*	NA			NA	NA	NA
Thallium	7440-28-0	2	3.8	NA				NA	NA
Thallium Dissolved		*	*	NA			NA	NA	NA
Vanadium	7440-62-2	49	20.6	NA				NA	NA
Vanadium Dissolved		*	*	NA			NA	NA	NA
Zinc	7440-66-6	5000	4	NA				NA	NA
Zinc Dissolved		*	*	NA			NA	NA	NA
Water Chemistry (mg/L)				NA	NA		NA		
Alkalinity		*				28.5		NA	NA
Chloride	16887-00-6	250,000						11	10
Dissolved Organic Carbon		*				5.2		4	6.9
Nitrate	14797-55-8	10,000							
Orthophosphate		*				1.9			
Sulfate	14808-79-8	250,000						4	9.1
Dissolved Gases (mg/L)				NA	NA	NA	NA		
Carbon Dioxide	124-38-9	*						72.6	57.7
Hydrogen (nm/L)	1333-74-0	*						1.6	1.6
Nitrogen	7727-37-9	*						11	10.6
Oxygen	7782-44-7	*						0.93	0.33
Volatile Gases (µg/L)				NA	NA	NA	NA		
Ethane	74-84-0	*						0.01	
Ethene	74-85-1	*							
Methane	74-82-8	*						236.8	219.7

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-21A			OLD-OU2-21B		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G21A06	NTCOU2G21A07	NTCOU2G21A08	OU2MW21B02	NTCOU2G21B04	NTCOU2G21B05
Sample Date				9/13/02	12/16/02	3/26/03	7/27/99	3/26/02	6/20/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40		10					
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3			5.7				
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067				347 J	NA	NA
Aluminum Dissolved		*	*				NA	NA	NA
Antimony	7440-36-0	6	4.1					NA	NA
Antimony Dissolved		*	*				NA	NA	NA
Arsenic	7440-38-2	50	5					NA	NA
Arsenic Dissolved		*	*				NA	NA	NA
Barium	7440-39-3	2000	31.4					NA	NA
Barium Dissolved		*	*				NA	NA	NA
Beryllium	7440-41-7	4	*					NA	NA
Beryllium Dissolved		*	*				NA	NA	NA
Calcium	7440-70-2	*	36830				12900 J	NA	NA
Calcium Dissolved		*	*				NA	NA	NA
Chromium	7440-47-3	100	7.8					NA	NA
Chromium Dissolved		*	*				NA	NA	NA
Cobalt	7440-48-4	420	*					NA	NA
Cobalt Dissolved		*	*				NA	NA	NA
Copper	7440-50-8	1000	5.4					NA	NA
Copper Dissolved		*	*				NA	NA	NA
Iron	7439-89-6	300	1227	1020		349	2500	NA	1380
Iron Dissolved		*	*					3020	NA
Lead	7439-92-1	15	4					NA	NA
Lead Dissolved		*	*				NA	NA	NA
Magnesium	7439-95-4	*	4560				1730	NA	NA
Magnesium Dissolved		*	*				NA	NA	NA
Manganese	7439-96-5	50	17				6.5	NA	10.1
Manganese Dissolved		*	*					15.7	NA
Mercury	7439-97-6	2	0.12					NA	NA
Mercury Dissolved		*	*				NA	NA	NA
Nickel	7440-02-0	100	*					NA	NA
Nickel Dissolved		*	*				NA	NA	NA
Potassium	7440-09-7	*	5400				5360	NA	NA
Potassium Dissolved		*	*				NA	NA	NA
Selenium	7782-49-2	50	9.7					NA	NA
Selenium Dissolved		*	*				NA	NA	NA
Sodium	7440-23-5	160000	18222				10300	NA	NA
Sodium Dissolved		*	*				NA	NA	NA
Thallium	7440-28-0	2	3.8					NA	NA
Thallium Dissolved		*	*				NA	NA	NA
Vanadium	7440-62-2	49	20.6					NA	NA
Vanadium Dissolved		*	*				NA	NA	NA
Zinc	7440-66-6	5000	4					NA	NA
Zinc Dissolved		*	*				NA	NA	NA
Water Chemistry (mg/L)							NA		
Alkalinity		*		NA	NA	NA		30	30
Chloride	16887-00-6	250,000		5	8.6			20	10
Dissolved Organic Carbon		*		13	1.2	2.6		11	12
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000		3.2	2.9			1	
Dissolved Gases (mg/L)							NA		
Carbon Dioxide	124-38-9	*		69.2	66.5	59.1		137.9	90.9
Hydrogen (nm/L)	1333-74-0	*		12.3	4.7	1.5 J		1.8	2.3
Nitrogen	7727-37-9	*		10.8	9.9	8.1		6.8	3.3
Oxygen	7782-44-7	*		0.47	0.63	0.5		0.46	
Volatile Gases (µg/L)							NA		
Ethane	74-84-0	*		0.04				0.21	0.07
Ethene	74-85-1	*		0.11					0.03
Methane	74-82-8	*		1047.1	197.7			2965.6	1232.6

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-21B			OLD-OU2-22A		
Sample ID		Florida	NTC	NTCOU2G21B06	NTCOU2G21B07	NTCOU2G21B08	OU2MW22A02	OU2MW22A02D	NTCOU2G22A04
Sample Date		GCTL[b]	BGSV[c]	9/13/02	12/17/02	3/26/03	9/23/99	9/23/99	3/24/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067				798 J	925 J	NA
Aluminum Dissolved		*	*				NA	NA	NA
Antimony	7440-36-0	6	4.1						NA
Antimony Dissolved		*	*				NA	NA	NA
Arsenic	7440-38-2	50	5				5.3	3.5	NA
Arsenic Dissolved		*	*				NA	NA	NA
Barium	7440-39-3	2000	31.4				30 J	30.7 J	NA
Barium Dissolved		*	*				NA	NA	NA
Beryllium	7440-41-7	4	*						NA
Beryllium Dissolved		*	*				NA	NA	NA
Calcium	7440-70-2	*	36830				11200 J	10800 J	NA
Calcium Dissolved		*	*				NA	NA	NA
Chromium	7440-47-3	100	7.8						NA
Chromium Dissolved		*	*				NA	NA	NA
Cobalt	7440-48-4	420	*						NA
Cobalt Dissolved		*	*				NA	NA	NA
Copper	7440-50-8	1000	5.4						NA
Copper Dissolved		*	*				NA	NA	NA
Iron	7439-89-6	300	1227	1320	1300	1120	1740 J	1800 J	NA
Iron Dissolved		*	*						3830
Lead	7439-92-1	15	4						NA
Lead Dissolved		*	*				NA	NA	NA
Magnesium	7439-95-4	*	4560				3340 J	3370 J	NA
Magnesium Dissolved		*	*				NA	NA	NA
Manganese	7439-96-5	50	17	9.1	8.8	6.8	5.7 J	5.8 J	NA
Manganese Dissolved		*	*						5.1
Mercury	7439-97-6	2	0.12						NA
Mercury Dissolved		*	*				NA	NA	NA
Nickel	7440-02-0	100	*						NA
Nickel Dissolved		*	*				NA	NA	NA
Potassium	7440-09-7	*	5400				1620	1650	NA
Potassium Dissolved		*	*				NA	NA	NA
Selenium	7782-49-2	50	9.7						NA
Selenium Dissolved		*	*				NA	NA	NA
Sodium	7440-23-5	160000	18222				13800	13900	NA
Sodium Dissolved		*	*				NA	NA	NA
Thallium	7440-28-0	2	3.8						NA
Thallium Dissolved		*	*				NA	NA	NA
Vanadium	7440-62-2	49	20.6				20.6 J	21.4 J	NA
Vanadium Dissolved		*	*				NA	NA	NA
Zinc	7440-66-6	5000	4				86.7 J	92.1 J	NA
Zinc Dissolved		*	*				NA	NA	NA
Water Chemistry (mg/L)							NA	NA	NA
Alkalinity		*		30	20	25.5			
Chloride	16887-00-6	250,000		16	17				
Dissolved Organic Carbon		*		15	3.5	11.5			
Nitrate	14797-55-8	10,000							
Orthophosphate		*			1.6	2.1			
Sulfate	14808-79-8	250,000			2.3				
Dissolved Gases (mg/L)							NA	NA	NA
Carbon Dioxide	124-38-9	*		203.3	196.2	108.2			
Hydrogen (nm/L)	1333-74-0	*		4.3	5.9	50 J			
Nitrogen	7727-37-9	*		10.9	9.5	5.9			
Oxygen	7782-44-7	*		0.34	0.83				
Volatile Gases (µg/L)							NA	NA	NA
Ethane	74-84-0	*		0.08		0.09			
Ethene	74-85-1	*		0.15	0.04	0.03			
Methane	74-82-8	*		4820.7	4034.7	1637.8			

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-22A		OLD-OU2-22B			
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G22A06	NTCOU2G22A08	OU2MW22B02	NTCOU2G22B04	NTCOU2G22B06	NTCOU2G22B08
Sample Date				9/12/02	3/26/03	7/30/99	3/24/02	9/12/02	3/26/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7		0.9 J					
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067				NA		
Aluminum Dissolved		*	*			NA	NA		
Antimony	7440-36-0	6	4.1				NA		
Antimony Dissolved		*	*			NA	NA		
Arsenic	7440-38-2	50	5				NA		
Arsenic Dissolved		*	*			NA	NA		
Barium	7440-39-3	2000	31.4			13	NA		
Barium Dissolved		*	*			NA	NA		
Beryllium	7440-41-7	4	*				NA		
Beryllium Dissolved		*	*			NA	NA		
Calcium	7440-70-2	*	36830			11600	NA		
Calcium Dissolved		*	*			NA	NA		
Chromium	7440-47-3	100	7.8				NA		
Chromium Dissolved		*	*			NA	NA		
Cobalt	7440-48-4	420	*				NA		
Cobalt Dissolved		*	*			NA	NA		
Copper	7440-50-8	1000	5.4				NA		
Copper Dissolved		*	*			NA	NA		
Iron	7439-89-6	300	1227	8050	5660	1750	NA	865	1110
Iron Dissolved		*	*				662		
Lead	7439-92-1	15	4				NA		
Lead Dissolved		*	*			NA	NA		
Magnesium	7439-95-4	*	4560			1460	NA		
Magnesium Dissolved		*	*			NA	NA		
Manganese	7439-96-5	50	17	10.4	6.4		NA	6.4	4
Manganese Dissolved		*	*				6		
Mercury	7439-97-6	2	0.12				NA		
Mercury Dissolved		*	*			NA	NA		
Nickel	7440-02-0	100	*				NA		
Nickel Dissolved		*	*			NA	NA		
Potassium	7440-09-7	*	5400			1250	NA		
Potassium Dissolved		*	*			NA	NA		
Selenium	7782-49-2	50	9.7				NA		
Selenium Dissolved		*	*			NA	NA		
Sodium	7440-23-5	160000	18222			11800	NA		
Sodium Dissolved		*	*			NA	NA		
Thallium	7440-28-0	2	3.8				NA		
Thallium Dissolved		*	*			NA	NA		
Vanadium	7440-62-2	49	20.6			3	NA		
Vanadium Dissolved		*	*			NA	NA		
Zinc	7440-66-6	5000	4				NA		
Zinc Dissolved		*	*			NA	NA		
Water Chemistry (mg/L)						NA	NA		
Alkalinity		*		NA	9			NA	16.5
Chloride	16887-00-6	250,000		NA				NA	22.1
Dissolved Organic Carbon		*		20	20.7			14	3.8
Nitrate	14797-55-8	10,000		NA				NA	
Orthophosphate		*			0.17				2.1
Sulfate	14808-79-8	250,000		NA				NA	
Dissolved Gases (mg/L)						NA	NA		
Carbon Dioxide	124-38-9	*		79.5	78.3			92.1	123.2
Hydrogen (nm/L)	1333-74-0	*		3.3	2 J			2.9	1.7 J
Nitrogen	7727-37-9	*		11.3	5.3			12.2	12.3
Oxygen	7782-44-7	*		0.66				5.45	0.44
Volatile Gases (µg/L)						NA	NA		
Ethane	74-84-0	*		0.06	0.01				0.25
Ethene	74-85-1	*		0.03					0.03
Methane	74-82-8	*		351.5	115.5			0.4	200.2

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-22B	OLD-OU2-23C	OLD-OU2-24C	OLD-OU2-25C	OLD-OU2-26C
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G22B08-D	OU2MW23C02	OU2MW24C02	OU2MW25C02	OU2MW26C02
Sample Date				3/26/03	8/1/99	8/2/99	8/2/99	8/2/99
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70						
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1						
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70						
Ethylbenzene	100-41-4	30						
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1						
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067					
Aluminum Dissolved		*	*		NA	NA	NA	NA
Antimony	7440-36-0	6	4.1					
Antimony Dissolved		*	*		NA	NA	NA	NA
Arsenic	7440-38-2	50	5				2.7	
Arsenic Dissolved		*	*		NA	NA	NA	NA
Barium	7440-39-3	2000	31.4		26.4	23.4	31.5	15.3
Barium Dissolved		*	*		NA	NA	NA	NA
Beryllium	7440-41-7	4	*					
Beryllium Dissolved		*	*		NA	NA	NA	NA
Calcium	7440-70-2	*	36830		75600	15300	98300	97100
Calcium Dissolved		*	*		NA	NA	NA	NA
Chromium	7440-47-3	100	7.8		19.8			13.5
Chromium Dissolved		*	*		NA	NA	NA	NA
Cobalt	7440-48-4	420	*					
Cobalt Dissolved		*	*		NA	NA	NA	NA
Copper	7440-50-8	1000	5.4					
Copper Dissolved		*	*		NA	NA	NA	NA
Iron	7439-89-6	300	1227	1270	1910	1920	3340	4670
Iron Dissolved		*	*					
Lead	7439-92-1	15	4					
Lead Dissolved		*	*		NA	NA	NA	NA
Magnesium	7439-95-4	*	4560		4140	2170	5240	5030
Magnesium Dissolved		*	*		NA	NA	NA	NA
Manganese	7439-96-5	50	17	5.4	56.2	26.6	98	46.4
Manganese Dissolved		*	*					
Mercury	7439-97-6	2	0.12					
Mercury Dissolved		*	*		NA	NA	NA	NA
Nickel	7440-02-0	100	*		10.5	2.2	3.4	2
Nickel Dissolved		*	*		NA	NA	NA	NA
Potassium	7440-09-7	*	5400		2630 J	3160 J	2360 J	
Potassium Dissolved		*	*		NA	NA	NA	NA
Selenium	7782-49-2	50	9.7					
Selenium Dissolved		*	*		NA	NA	NA	NA
Sodium	7440-23-5	160000	18222		26600	10600	10300	12300
Sodium Dissolved		*	*		NA	NA	NA	NA
Thallium	7440-28-0	2	3.8					
Thallium Dissolved		*	*		NA	NA	NA	NA
Vanadium	7440-62-2	49	20.6					
Vanadium Dissolved		*	*		NA	NA	NA	NA
Zinc	7440-66-6	5000	4					
Zinc Dissolved		*	*		NA	NA	NA	NA
Water Chemistry (mg/L)					NA	NA	NA	NA
Alkalinity		*		17				
Chloride	16887-00-6	250,000		22.1				
Dissolved Organic Carbon		*		4				
Nitrate	14797-55-8	10,000		0.18				
Orthophosphate		*		2				
Sulfate	14808-79-8	250,000						
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*						
Hydrogen (nm/L)	1333-74-0	*						
Nitrogen	7727-37-9	*						
Oxygen	7782-44-7	*						
Volatile Gases (µg/L)				NA	NA	NA	NA	NA
Ethane	74-84-0	*						
Ethene	74-85-1	*						
Methane	74-82-8	*						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-27A					
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G27A04	NTCOU2G27A05	NTCOU2G27A06	NTCOU2G27A06-D	NTCOU2G27A07	NTCOU2G27A08
Sample Date				3/26/02	6/19/02	9/12/02	9/12/02	12/17/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		0.8 J	1 J	2	2	1.5	17.9
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							1.5 J
Chlorobenzene	108-90-7	100		2	3	16	16	13	36
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70				2 J	1 J	1.6	2.1
Ethylbenzene	100-41-4	30						0.94 J	
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20				0.3 J	0.2 J		
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1				9	8	17	1.8
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA	NA				
Aluminum Dissolved		*	*	NA	NA				
Antimony	7440-36-0	6	4.1	NA	NA				
Antimony Dissolved		*	*	NA	NA				
Arsenic	7440-38-2	50	5	NA	NA				
Arsenic Dissolved		*	*	NA	NA				
Barium	7440-39-3	2000	31.4	NA	NA				
Barium Dissolved		*	*	NA	NA				
Beryllium	7440-41-7	4	*	NA	NA				
Beryllium Dissolved		*	*	NA	NA				
Calcium	7440-70-2	*	36830	NA	NA				
Calcium Dissolved		*	*	NA	NA				
Chromium	7440-47-3	100	7.8	NA	NA				
Chromium Dissolved		*	*	NA	NA				
Cobalt	7440-48-4	420	*	NA	NA				
Cobalt Dissolved		*	*	NA	NA				
Copper	7440-50-8	1000	5.4	NA	NA				
Copper Dissolved		*	*	NA	NA				
Iron	7439-89-6	300	1227	NA	3040	4640	4460	14000	2140
Iron Dissolved		*	*	4970	NA				
Lead	7439-92-1	15	4	NA	NA				
Lead Dissolved		*	*	NA	NA				
Magnesium	7439-95-4	*	4560	NA	NA				
Magnesium Dissolved		*	*	NA	NA				
Manganese	7439-96-5	50	17	NA	173	165	160	407	8.6
Manganese Dissolved		*	*	244	NA				
Mercury	7439-97-6	2	0.12	NA	NA				
Mercury Dissolved		*	*	NA	NA				
Nickel	7440-02-0	100	*	NA	NA				
Nickel Dissolved		*	*	NA	NA				
Potassium	7440-09-7	*	5400	NA	NA				
Potassium Dissolved		*	*	NA	NA				
Selenium	7782-49-2	50	9.7	NA	NA				
Selenium Dissolved		*	*	NA	NA				
Sodium	7440-23-5	160000	18222	NA	NA				
Sodium Dissolved		*	*	NA	NA				
Thallium	7440-28-0	2	3.8	NA	NA				
Thallium Dissolved		*	*	NA	NA				
Vanadium	7440-62-2	49	20.6	NA	NA				
Vanadium Dissolved		*	*	NA	NA				
Zinc	7440-66-6	5000	4	NA	NA				
Zinc Dissolved		*	*	NA	NA				
Water Chemistry (mg/L)									
Alkalinity		*		NA	20	30	30	49	7
Chloride	16887-00-6	250,000		10	16	30	29	26	33.7
Dissolved Organic Carbon		*		26	36	NA	NA	NA	NA
Nitrate	14797-55-8	10,000							
Orthophosphate		*							0.11
Sulfate	14808-79-8	250,000		40	38	14	14	28	32.8
Dissolved Gases (mg/L)							NA		
Carbon Dioxide	124-38-9	*		306.5	247.7	456.6		443	309.3
Hydrogen (nm/L)	1333-74-0	*		1.3	1.4	1.8		0.6	1.5 J
Nitrogen	7727-37-9	*		7.9	5.3	7.4		8.2	12.5
Oxygen	7782-44-7	*		0.59	0.43	0.69		0.48	
Volatile Gases (µg/L)							NA		
Ethane	74-84-0	*		0.14	0.05	0.59		0.7	0.03
Ethene	74-85-1	*		0.15	0.08	1.4		2.12	0.05
Methane	74-82-8	*		202.6	114.7	256.3		422.3	156.2

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-27B				
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G27B04	NTCOU2G27B05	NTCOU2G27B06	NTCOU2G27B07	NTCOU2G27B08
Sample Date				3/26/02	6/19/02	9/12/02	12/17/02	3/25/03
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70				0.4 J		
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1		56	54	54	54	
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700					1.7	
Chlorobenzene	108-90-7	100		72	49	48	63	6.5
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70		6	5	8	4	0.53 J
Ethylbenzene	100-41-4	30		0.9 J	0.6 J	0.7 J	0.8 J	
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40		0.6 J	0.6 J			
Total Xylenes	1330-20-7	20				0.3 J		
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1		4	5	7	5.3	2.8
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	NA	NA			
Aluminum Dissolved		*	*	NA	NA			
Antimony	7440-36-0	6	4.1	NA	NA			
Antimony Dissolved		*	*	NA	NA			
Arsenic	7440-38-2	50	5	NA	NA			
Arsenic Dissolved		*	*	NA	NA			
Barium	7440-39-3	2000	31.4	NA	NA			
Barium Dissolved		*	*	NA	NA			
Beryllium	7440-41-7	4	*	NA	NA			
Beryllium Dissolved		*	*	NA	NA			
Calcium	7440-70-2	*	36830	NA	NA			
Calcium Dissolved		*	*	NA	NA			
Chromium	7440-47-3	100	7.8	NA	NA			
Chromium Dissolved		*	*	NA	NA			
Cobalt	7440-48-4	420	*	NA	NA			
Cobalt Dissolved		*	*	NA	NA			
Copper	7440-50-8	1000	5.4	NA	NA			
Copper Dissolved		*	*	NA	NA			
Iron	7439-89-6	300	1227	NA	2220	2530	2610	22500
Iron Dissolved		*	*	2010	NA			
Lead	7439-92-1	15	4	NA	NA			
Lead Dissolved		*	*	NA	NA			
Magnesium	7439-95-4	*	4560	NA	NA			
Magnesium Dissolved		*	*	NA	NA			
Manganese	7439-96-5	50	17	NA	9.2	12	17.2	431
Manganese Dissolved		*	*	11	NA			
Mercury	7439-97-6	2	0.12	NA	NA			
Mercury Dissolved		*	*	NA	NA			
Nickel	7440-02-0	100	*	NA	NA			
Nickel Dissolved		*	*	NA	NA			
Potassium	7440-09-7	*	5400	NA	NA			
Potassium Dissolved		*	*	NA	NA			
Selenium	7782-49-2	50	9.7	NA	NA			
Selenium Dissolved		*	*	NA	NA			
Sodium	7440-23-5	160000	18222	NA	NA			
Sodium Dissolved		*	*	NA	NA			
Thallium	7440-28-0	2	3.8	NA	NA			
Thallium Dissolved		*	*	NA	NA			
Vanadium	7440-62-2	49	20.6	NA	NA			
Vanadium Dissolved		*	*	NA	NA			
Zinc	7440-66-6	5000	4	NA	NA			
Zinc Dissolved		*	*	NA	NA			
Water Chemistry (mg/L)								
Alkalinity		*		NA	NA	NA	NA	67
Chloride	16887-00-6	250,000		30	40	34	35	
Dissolved Organic Carbon		*		13	25	NA	NA	NA
Nitrate	14797-55-8	10,000		0.08				
Orthophosphate		*						
Sulfate	14808-79-8	250,000		6.3	2	7.6	31	40.6
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*		391.6	479.9	592.1	437.7	395.6
Hydrogen (nm/L)	1333-74-0	*		1.4	1.9	2.6	0.9	1.8 J
Nitrogen	7727-37-9	*		6.4	6.6	6.6	3.1	7.6
Oxygen	7782-44-7	*		0.52	0.82	1.18	0.28	0.2
Volatile Gases (µg/L)								
Ethane	74-84-0	*		0.56	0.56	0.35	0.2	0.09
Ethene	74-85-1	*		0.9	1.11	0.84	0.35	0.38
Methane	74-82-8	*		3063.3	3966.4	4295.9	1830.6	1923.4

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-28A			OLD-OU2-28B		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G28A04	NTCOU2G28A06	NTCOU2G28A08	NTCOU2G28B04	NTCOU2G28B06	NTCOU2G28B08
Sample Date				3/24/02	9/11/02	3/25/03	3/24/02	9/11/02	3/25/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700		7					
Benzene	71-43-2	1					3	9	3.8
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100					4	5	7.6
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70					1 J	2	2.6
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1					2	6	7.4
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA			NA		
Aluminum Dissolved		*	*	NA			NA		
Antimony	7440-36-0	6	4.1	NA			NA		
Antimony Dissolved		*	*	NA			NA		
Arsenic	7440-38-2	50	5	NA			NA		
Arsenic Dissolved		*	*	NA			NA		
Barium	7440-39-3	2000	31.4	NA			NA		
Barium Dissolved		*	*	NA			NA		
Beryllium	7440-41-7	4	*	NA			NA		
Beryllium Dissolved		*	*	NA			NA		
Calcium	7440-70-2	*	36830	NA			NA		
Calcium Dissolved		*	*	NA			NA		
Chromium	7440-47-3	100	7.8	NA			NA		
Chromium Dissolved		*	*	NA			NA		
Cobalt	7440-48-4	420	*	NA			NA		
Cobalt Dissolved		*	*	NA			NA		
Copper	7440-50-8	1000	5.4	NA			NA		
Copper Dissolved		*	*	NA			NA		
Iron	7439-89-6	300	1227	NA	504	1880	NA	7500	4660
Iron Dissolved		*	*	1930			4920		
Lead	7439-92-1	15	4	NA			NA		
Lead Dissolved		*	*	NA			NA		
Magnesium	7439-95-4	*	4560	NA			NA		
Magnesium Dissolved		*	*	NA			NA		
Manganese	7439-96-5	50	17	NA	6.5	9	NA	17.4	14.9
Manganese Dissolved		*	*	8.5			22.1		
Mercury	7439-97-6	2	0.12	NA			NA		
Mercury Dissolved		*	*	NA			NA		
Nickel	7440-02-0	100	*	NA			NA		
Nickel Dissolved		*	*	NA			NA		
Potassium	7440-09-7	*	5400	NA			NA		
Potassium Dissolved		*	*	NA			NA		
Selenium	7782-49-2	50	9.7	NA			NA		
Selenium Dissolved		*	*	NA			NA		
Sodium	7440-23-5	160000	18222	NA			NA		
Sodium Dissolved		*	*	NA			NA		
Thallium	7440-28-0	2	3.8	NA			NA		
Thallium Dissolved		*	*	NA			NA		
Vanadium	7440-62-2	49	20.6	NA			NA		
Vanadium Dissolved		*	*	NA			NA		
Zinc	7440-66-6	5000	4	NA			NA		
Zinc Dissolved		*	*	NA			NA		
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-29A			OLD-OU2-29B		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G29A04	NTCOU2G29A05	NTCOU2G29A08	NTCOU2G29B04	NTCOU2G29B05	NTCOU2G29B08
Sample Date				3/27/02	6/21/02	3/26/03	3/27/02	6/21/02	3/26/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40		1					
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	NA	NA		NA	NA	
Aluminum Dissolved		*	*	NA	NA		NA	NA	
Antimony	7440-36-0	6	4.1	NA	NA		NA	NA	
Antimony Dissolved		*	*	NA	NA		NA	NA	
Arsenic	7440-38-2	50	5	NA	NA		NA	NA	
Arsenic Dissolved		*	*	NA	NA		NA	NA	
Barium	7440-39-3	2000	31.4	NA	NA		NA	NA	
Barium Dissolved		*	*	NA	NA		NA	NA	
Beryllium	7440-41-7	4	*	NA	NA		NA	NA	
Beryllium Dissolved		*	*	NA	NA		NA	NA	
Calcium	7440-70-2	*	36830	NA	NA		NA	NA	
Calcium Dissolved		*	*	NA	NA		NA	NA	
Chromium	7440-47-3	100	7.8	NA	NA		NA	NA	
Chromium Dissolved		*	*	NA	NA		NA	NA	
Cobalt	7440-48-4	420	*	NA	NA		NA	NA	
Cobalt Dissolved		*	*	NA	NA		NA	NA	
Copper	7440-50-8	1000	5.4	NA	NA		NA	NA	
Copper Dissolved		*	*	NA	NA		NA	NA	
Iron	7439-89-6	300	1227	NA	7130	5870	NA	4740	3420
Iron Dissolved		*	*	5880	NA		5040	NA	
Lead	7439-92-1	15	4	NA	NA		NA	NA	
Lead Dissolved		*	*	NA	NA		NA	NA	
Magnesium	7439-95-4	*	4560	NA	NA		NA	NA	
Magnesium Dissolved		*	*	NA	NA		NA	NA	
Manganese	7439-96-5	50	17	NA	8.5	5.8	NA	7.8	4.9
Manganese Dissolved		*	*	13.8	NA		12.5	NA	
Mercury	7439-97-6	2	0.12	NA	NA		NA	NA	
Mercury Dissolved		*	*	NA	NA		NA	NA	
Nickel	7440-02-0	100	*	NA	NA		NA	NA	
Nickel Dissolved		*	*	NA	NA		NA	NA	
Potassium	7440-09-7	*	5400	NA	NA		NA	NA	
Potassium Dissolved		*	*	NA	NA		NA	NA	
Selenium	7782-49-2	50	9.7	NA	NA		NA	NA	
Selenium Dissolved		*	*	NA	NA		NA	NA	
Sodium	7440-23-5	160000	18222	NA	NA		NA	NA	
Sodium Dissolved		*	*	NA	NA		NA	NA	
Thallium	7440-28-0	2	3.8	NA	NA		NA	NA	
Thallium Dissolved		*	*	NA	NA		NA	NA	
Vanadium	7440-62-2	49	20.6	NA	NA		NA	NA	
Vanadium Dissolved		*	*	NA	NA		NA	NA	
Zinc	7440-66-6	5000	4	NA	NA		NA	NA	
Zinc Dissolved		*	*	NA	NA		NA	NA	
Water Chemistry (mg/L)									
Alkalinity		*		40	40	25.5	40	30	27
Chloride	16887-00-6	250,000		56	54 J	55.6	20	20 J	
Dissolved Organic Carbon		*		21	22	NA	7.5	9.4	NA
Nitrate	14797-55-8	10,000							
Orthophosphate		*				0.1			1.6
Sulfate	14808-79-8	250,000		52	41	55.9	5		
Dissolved Gases (mg/L)									
Carbon Dioxide	124-38-9	*		113.6	154.5	165.7	68.9	101.8	91.8
Hydrogen (nm/L)	1333-74-0	*		2.3	1.5	1.3 J	2	1.4	1.4 J
Nitrogen	7727-37-9	*		9.9	13.4	9.7	6.5	9.8	8.6
Oxygen	7782-44-7	*		1.08	0.34	0.52	0.38	0.29	0.63
Volatile Gases (µg/L)									
Ethane	74-84-0	*		0.02			0.03	0.05	
Ethene	74-85-1	*		0.16	0.3	0.03	0.27	0.36	
Methane	74-82-8	*		197.7	224.6	161.1	412.5	624.9	2.2

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-30A					OLD-OU2-30B	
Sample ID		Florida	NTC	NTCOU2G30A04	NTCOU2G30A05	NTCOU2G30A06	NTCOU2G30A07	NTCOU2G30A08	NTCOU2G30B04	NTCOU2G30B05
Sample Date		GCTL[b]	BGSV[c]	3/27/02	6/20/02	9/12/02	12/17/02	3/25/03	3/26/02	6/20/02
Volatiles (µg/L)										
1,1,2-Trichloroethane	79-00-5	5								
1,1-Dichloroethane	75-34-3	70								
1,1-Dichloroethene	75-35-4	7								
1,2-Dichloroethane	107-06-2	3								
1,2-Dichloropropane	78-87-5	5								
2-Butanone	78-93-3	4200		3 J					3 J	
Acetone	67-64-1	700								
Benzene	71-43-2	1				1	0.94 J		0.8 J	2
Bromodichloromethane	75-27-4	0.6							2	
Carbon Disulfide	75-15-0	700								
Chlorobenzene	108-90-7	100				0.4 J			3	
Chloroethane	75-00-3	12								
Chloroform	67-66-3	5.7		0.5 J					6	
Chlorodibromomethane	124-48-1	0.4							0.9 J	
Chloromethane	74-87-3	2.7				0.3 J				
cis-1,2-Dichloroethene	156-59-2	70								
Ethylbenzene	100-41-4	30				0.3 J			2	5
Methyl *tert*-Butyl Ether	1634-04-4	50								
Tetrachloroethene	127-18-4	3								
Toluene	108-88-3	40		0.5 J						0.5 J
Total Xylenes	1330-20-7	20		3 J		0.4 J			4 J	9
Trans-1,2-Dichloroethene	156-60-5	100								
Trichloroethene	79-01-6	3								
Vinyl Chloride	75-01-4	1								0.9 J
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	NA	NA				NA	NA
Aluminum Dissolved		*	*	NA	NA				NA	NA
Antimony	7440-36-0	6	4.1	NA	NA				NA	NA
Antimony Dissolved		*	*	NA	NA				NA	NA
Arsenic	7440-38-2	50	5	NA	NA				NA	NA
Arsenic Dissolved		*	*	NA	NA				NA	NA
Barium	7440-39-3	2000	31.4	NA	NA				NA	NA
Barium Dissolved		*	*	NA	NA				NA	NA
Beryllium	7440-41-7	4	*	NA	NA				NA	NA
Beryllium Dissolved		*	*	NA	NA				NA	NA
Calcium	7440-70-2	*	36830	NA	NA				NA	NA
Calcium Dissolved		*	*	NA	NA				NA	NA
Chromium	7440-47-3	100	7.8	NA	NA				NA	NA
Chromium Dissolved		*	*	NA	NA				NA	NA
Cobalt	7440-48-4	420	*	NA	NA				NA	NA
Cobalt Dissolved		*	*	NA	NA				NA	NA
Copper	7440-50-8	1000	5.4	NA	NA				NA	NA
Copper Dissolved		*	*	NA	NA				NA	NA
Iron	7439-89-6	300	1227	NA	585	38300	40600	30900	NA	7120
Iron Dissolved		*	*	2040	NA				82300	3540
Lead	7439-92-1	15	4	NA	NA				NA	NA
Lead Dissolved		*	*	NA	NA				NA	NA
Magnesium	7439-95-4	*	4560	NA	NA				NA	NA
Magnesium Dissolved		*	*	NA	NA				NA	NA
Manganese	7439-96-5	50	17	NA	68.3	55.2	64.9	64.2	NA	17.7
Manganese Dissolved		*	*	50.4	NA				118	15.1
Mercury	7439-97-6	2	0.12	NA	NA				NA	NA
Mercury Dissolved		*	*	NA	NA				NA	NA
Nickel	7440-02-0	100	*	NA	NA				NA	NA
Nickel Dissolved		*	*	NA	NA				NA	NA
Potassium	7440-09-7	*	5400	NA	NA				NA	NA
Potassium Dissolved		*	*	NA	NA				NA	NA
Selenium	7782-49-2	50	9.7	NA	NA				NA	NA
Selenium Dissolved		*	*	NA	NA				NA	NA
Sodium	7440-23-5	160000	18222	NA	NA				NA	NA
Sodium Dissolved		*	*	NA	NA				NA	NA
Thallium	7440-28-0	2	3.8	NA	NA				NA	NA
Thallium Dissolved		*	*	NA	NA				NA	NA
Vanadium	7440-62-2	49	20.6	NA	NA				NA	NA
Vanadium Dissolved		*	*	NA	NA				NA	NA
Zinc	7440-66-6	5000	4	NA	NA				NA	NA
Zinc Dissolved		*	*	NA	NA				NA	NA
Water Chemistry (mg/L)										
Alkalinity		*		NA	NA		24	23.5	340	240
Chloride	16887-00-6	250,000		130	80	150	130	85.8	40	50
Dissolved Organic Carbon		*		44	24	NA	NA	NA	56	48
Nitrate	14797-55-8	10,000			2.1	0.09				
Orthophosphate		*						0.1		
Sulfate	14808-79-8	250,000		16	59	34	33	33.6	16	
Dissolved Gases (mg/L)										
Carbon Dioxide	124-38-9	*		162.6	166.5	419.4	355.8	228.3	11.6	78.4
Hydrogen (nm/L)	1333-74-0	*		2	1.1	2.6	0.8	1 J	6.3	6.7
Nitrogen	7727-37-9	*		4.7	8.3	6.7	5.9	6	5.9	5.5
Oxygen	7782-44-7	*		1.46	0.34	0.18	0.16			
Volatile Gases (µg/L)										
Ethane	74-84-0	*		0.01	0.01	0.07		0.07	0.29	
Ethene	74-85-1	*		0.03	0.05	0.08	0.17	0.22	0.57	0.8
Methane	74-82-8	*		172.3	266.1	2382.3	3214.6	2267.6	3854.1	6190

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-30B			OLD-OU2-31A	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G30B06	NTCOU2G30B07	NTCOU2G30B08	NTCOU2G31A04	NTCOU2G31A05
Sample Date				9/12/02	12/17/02	3/25/03	3/26/02	6/20/02
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70						
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1		1	1.1	1.5		
Bromodichloromethane	75-27-4	0.6					4	0.4 J
Carbon Disulfide	75-15-0	700			0.81 J			
Chlorobenzene	108-90-7	100		2	1.4	2		
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7					12	0.4 J
Chlorodibromomethane	124-48-1	0.4					2	
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70		0.5 J				
Ethylbenzene	100-41-4	30		2	0.79 J			
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3						
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20		0.4 J				
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1		0.4 J				
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067				NA	NA
Aluminum Dissolved		*	*				NA	NA
Antimony	7440-36-0	6	4.1				NA	NA
Antimony Dissolved		*	*				NA	NA
Arsenic	7440-38-2	50	5				NA	NA
Arsenic Dissolved		*	*				NA	NA
Barium	7440-39-3	2000	31.4				NA	NA
Barium Dissolved		*	*				NA	NA
Beryllium	7440-41-7	4	*				NA	NA
Beryllium Dissolved		*	*				NA	NA
Calcium	7440-70-2	*	36830				NA	NA
Calcium Dissolved		*	*				NA	NA
Chromium	7440-47-3	100	7.8				NA	NA
Chromium Dissolved		*	*				NA	NA
Cobalt	7440-48-4	420	*				NA	NA
Cobalt Dissolved		*	*				NA	NA
Copper	7440-50-8	1000	5.4				NA	NA
Copper Dissolved		*	*				NA	NA
Iron	7439-89-6	300	1227	22800	30300	27200	NA	2170
Iron Dissolved		*	*				893	NA
Lead	7439-92-1	15	4				NA	NA
Lead Dissolved		*	*				NA	NA
Magnesium	7439-95-4	*	4560				NA	NA
Magnesium Dissolved		*	*				NA	NA
Manganese	7439-96-5	50	17	64.2	93.6	105	NA	25.1
Manganese Dissolved		*	*				58.3	NA
Mercury	7439-97-6	2	0.12				NA	NA
Mercury Dissolved		*	*				NA	NA
Nickel	7440-02-0	100	*				NA	NA
Nickel Dissolved		*	*				NA	NA
Potassium	7440-09-7	*	5400				NA	NA
Potassium Dissolved		*	*				NA	NA
Selenium	7782-49-2	50	9.7				NA	NA
Selenium Dissolved		*	*				NA	NA
Sodium	7440-23-5	160000	18222				NA	NA
Sodium Dissolved		*	*				NA	NA
Thallium	7440-28-0	2	3.8				NA	NA
Thallium Dissolved		*	*				NA	NA
Vanadium	7440-62-2	49	20.6				NA	NA
Vanadium Dissolved		*	*				NA	NA
Zinc	7440-66-6	5000	4				NA	NA
Zinc Dissolved		*	*				NA	NA
Water Chemistry (mg/L)								
Alkalinity		*		210	200	236	20	
Chloride	16887-00-6	250,000		92	92	93.1	10	3
Dissolved Organic Carbon		*		NA	NA	NA	5	6.4
Nitrate	14797-55-8	10,000						
Orthophosphate		*				0.38		
Sulfate	14808-79-8	250,000		3.2	8.8		74	24
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*		150.8	219.1	230.3	47.7	42
Hydrogen (nm/L)	1333-74-0	*		1	1	1.8 J	2.3	2
Nitrogen	7727-37-9	*		5.3	4.3	3	9.6	11.7
Oxygen	7782-44-7	*		0.24	0.26		0.61	0.93
Volatile Gases (µg/L)								
Ethane	74-84-0	*		0.12		0.23	0.1	0.05
Ethene	74-85-1	*		0.02	0.18	0.1	1.2	2.48
Methane	74-82-8	*		6619.6	4676.7	4188.5	17.3	74.1

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-31A			OLD-OU2-31B	
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G31A06	NTCOU2G31A07	NTCOU2G31A08	NTCOU2G31B04	NTCOU2G31B05
Sample Date				9/13/02	12/16/02	3/25/03	3/26/02	6/20/02
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70						
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1					1 J	1
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100					7	
Chloroethane	75-00-3	12						
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70					1 J	
Ethylbenzene	100-41-4	30						
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3						2
Toluene	108-88-3	40						
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3						
Vinyl Chloride	75-01-4	1					0.6 J	1 J
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067				NA	NA
Aluminum Dissolved		*	*				NA	NA
Antimony	7440-36-0	6	4.1				NA	NA
Antimony Dissolved		*	*				NA	NA
Arsenic	7440-38-2	50	5				NA	NA
Arsenic Dissolved		*	*				NA	NA
Barium	7440-39-3	2000	31.4				NA	NA
Barium Dissolved		*	*				NA	NA
Beryllium	7440-41-7	4	*				NA	NA
Beryllium Dissolved		*	*				NA	NA
Calcium	7440-70-2	*	36830				NA	NA
Calcium Dissolved		*	*				NA	NA
Chromium	7440-47-3	100	7.8				NA	NA
Chromium Dissolved		*	*				NA	NA
Cobalt	7440-48-4	420	*				NA	NA
Cobalt Dissolved		*	*				NA	NA
Copper	7440-50-8	1000	5.4				NA	NA
Copper Dissolved		*	*				NA	NA
Iron	7439-89-6	300	1227	154	1010		NA	1490
Iron Dissolved		*	*				1730	NA
Lead	7439-92-1	15	4				NA	NA
Lead Dissolved		*	*				NA	NA
Magnesium	7439-95-4	*	4560				NA	NA
Magnesium Dissolved		*	*				NA	NA
Manganese	7439-96-5	50	17	15.8	11.8	8.5	NA	
Manganese Dissolved		*	*				7.2	NA
Mercury	7439-97-6	2	0.12				NA	NA
Mercury Dissolved		*	*				NA	NA
Nickel	7440-02-0	100	*				NA	NA
Nickel Dissolved		*	*				NA	NA
Potassium	7440-09-7	*	5400				NA	NA
Potassium Dissolved		*	*				NA	NA
Selenium	7782-49-2	50	9.7				NA	NA
Selenium Dissolved		*	*				NA	NA
Sodium	7440-23-5	160000	18222				NA	NA
Sodium Dissolved		*	*				NA	NA
Thallium	7440-28-0	2	3.8				NA	NA
Thallium Dissolved		*	*				NA	NA
Vanadium	7440-62-2	49	20.6				NA	NA
Vanadium Dissolved		*	*				NA	NA
Zinc	7440-66-6	5000	4				NA	NA
Zinc Dissolved		*	*				NA	NA
Water Chemistry (mg/L)								
Alkalinity		*				5		
Chloride	16887-00-6	250,000			1.9		13	8
Dissolved Organic Carbon		*		NA	NA	NA	9.1	11
Nitrate	14797-55-8	10,000			0.11			
Orthophosphate		*						
Sulfate	14808-79-8	250,000		14	9.6		31	21
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*		42.1	33	22.3	86.8	97.6
Hydrogen (nm/L)	1333-74-0	*		2	1.8	2 J	1.7	0.6
Nitrogen	7727-37-9	*		10.5	8.4	11	9.7	15.3
Oxygen	7782-44-7	*		1.03	2.01	0.96	0.67	1.39
Volatile Gases (µg/L)								NA
Ethane	74-84-0	*					0.1	
Ethene	74-85-1	*		0.02	0.01		0.34	
Methane	74-82-8	*		33.6	5.2	4.6	144	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-31B			OLD-OU2-32A	
Sample ID		Florida	NTC	NTCOU2G31B06	NTCOU2G31B07	NTCOU2G31B08	NTCOU2G32A04	NTCOU2G32A05
Sample Date		GCTL[b]	BGSV[c]	9/13/02	12/16/02	3/25/03	3/25/02	6/19/02
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70		0.2 J				
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700					52	
Benzene	71-43-2	1			3	2.3		
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100		27	25	11.2		
Chloroethane	75-00-3	12						2 J
Chloroform	67-66-3	5.7						
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70		4	2.6	1.4		
Ethylbenzene	100-41-4	30						
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3			4	1.5		
Toluene	108-88-3	40						11
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3		0.9 J	0.79 J			
Vinyl Chloride	75-01-4	1		4	4.2	3.8		
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067				NA	NA
Aluminum Dissolved		*	*				NA	NA
Antimony	7440-36-0	6	4.1				NA	NA
Antimony Dissolved		*	*				NA	NA
Arsenic	7440-38-2	50	5				NA	NA
Arsenic Dissolved		*	*				NA	NA
Barium	7440-39-3	2000	31.4				NA	NA
Barium Dissolved		*	*				NA	NA
Beryllium	7440-41-7	4	*				NA	NA
Beryllium Dissolved		*	*				NA	NA
Calcium	7440-70-2	*	36830				NA	NA
Calcium Dissolved		*	*				NA	NA
Chromium	7440-47-3	100	7.8				NA	NA
Chromium Dissolved		*	*				NA	NA
Cobalt	7440-48-4	420	*				NA	NA
Cobalt Dissolved		*	*				NA	NA
Copper	7440-50-8	1000	5.4				NA	NA
Copper Dissolved		*	*				NA	NA
Iron	7439-89-6	300	1227	1530	1310	1590	NA	5030
Iron Dissolved		*	*				2650	NA
Lead	7439-92-1	15	4				NA	NA
Lead Dissolved		*	*				NA	NA
Magnesium	7439-95-4	*	4560				NA	NA
Magnesium Dissolved		*	*				NA	NA
Manganese	7439-96-5	50	17	5.3	5.1	3.7	NA	23.7
Manganese Dissolved		*	*				45.8	NA
Mercury	7439-97-6	2	0.12				NA	NA
Mercury Dissolved		*	*				NA	NA
Nickel	7440-02-0	100	*				NA	NA
Nickel Dissolved		*	*				NA	NA
Potassium	7440-09-7	*	5400				NA	NA
Potassium Dissolved		*	*				NA	NA
Selenium	7782-49-2	50	9.7				NA	NA
Selenium Dissolved		*	*				NA	NA
Sodium	7440-23-5	160000	18222				NA	NA
Sodium Dissolved		*	*				NA	NA
Thallium	7440-28-0	2	3.8				NA	NA
Thallium Dissolved		*	*				NA	NA
Vanadium	7440-62-2	49	20.6				NA	NA
Vanadium Dissolved		*	*				NA	NA
Zinc	7440-66-6	5000	4				NA	NA
Zinc Dissolved		*	*				NA	NA
Water Chemistry (mg/L)								
Alkalinity		*				NA	50	20
Chloride	16887-00-6	250,000		16	15	20.1	15	6
Dissolved Organic Carbon		*		NA	NA	NA	36	33
Nitrate	14797-55-8	10,000				0.14	0.05	0.42
Orthophosphate		*			1.3	1.4		
Sulfate	14808-79-8	250,000		25	20	23.3	34	32
Dissolved Gases (mg/L)								
Carbon Dioxide	124-38-9	*		277.4	246.1	195.1	107.6	173.1
Hydrogen (nm/L)	1333-74-0	*		1.8	1.7	2.1 J	2.8	1.2
Nitrogen	7727-37-9	*		9.2	9.9	3.8	8.4	12
Oxygen	7782-44-7	*		1	0.72		0.27	
Volatile Gases (µg/L)								NA
Ethane	74-84-0	*		0.83	0.49	0.07	0.04	
Ethene	74-85-1	*		0.63	0.71	0.37	0.96	
Methane	74-82-8	*		559	661.5	180.6	16.5	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-32A			OLD-OU2-32B		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G32A06	NTCOU2G32A07	NTCOU2G32A08	NTCOU2G32B04	NTCOU2G32B05	NTCOU2G32B06
Sample Date				9/12/02	12/16/02	3/25/03	3/25/02	6/19/02	9/12/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700					4 J		
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7					0.4 J		
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70					0.4 J		
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3						0.6 J	
Toluene	108-88-3	40						6	5
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3					16	19	10
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067				NA	NA	
Aluminum Dissolved		*	*				NA	NA	
Antimony	7440-36-0	6	4.1				NA	NA	
Antimony Dissolved		*	*				NA	NA	
Arsenic	7440-38-2	50	5				NA	NA	
Arsenic Dissolved		*	*				NA	NA	
Barium	7440-39-3	2000	31.4				NA	NA	
Barium Dissolved		*	*				NA	NA	
Beryllium	7440-41-7	4	*				NA	NA	
Beryllium Dissolved		*	*				NA	NA	
Calcium	7440-70-2	*	36830				NA	NA	
Calcium Dissolved		*	*				NA	NA	
Chromium	7440-47-3	100	7.8				NA	NA	
Chromium Dissolved		*	*				NA	NA	
Cobalt	7440-48-4	420	*				NA	NA	
Cobalt Dissolved		*	*				NA	NA	
Copper	7440-50-8	1000	5.4				NA	NA	
Copper Dissolved		*	*				NA	NA	
Iron	7439-89-6	300	1227	479	478		NA	1410	1590
Iron Dissolved		*	*				1670	NA	
Lead	7439-92-1	15	4				NA	NA	
Lead Dissolved		*	*				NA	NA	
Magnesium	7439-95-4	*	4560				NA	NA	
Magnesium Dissolved		*	*				NA	NA	
Manganese	7439-96-5	50	17				NA	7.2	9.1
Manganese Dissolved		*	*				14.9	NA	
Mercury	7439-97-6	2	0.12				NA	NA	
Mercury Dissolved		*	*				NA	NA	
Nickel	7440-02-0	100	*				NA	NA	
Nickel Dissolved		*	*				NA	NA	
Potassium	7440-09-7	*	5400				NA	NA	
Potassium Dissolved		*	*				NA	NA	
Selenium	7782-49-2	50	9.7				NA	NA	
Selenium Dissolved		*	*				NA	NA	
Sodium	7440-23-5	160000	18222				NA	NA	
Sodium Dissolved		*	*				NA	NA	
Thallium	7440-28-0	2	3.8				NA	NA	
Thallium Dissolved		*	*				NA	NA	
Vanadium	7440-62-2	49	20.6				NA	NA	
Vanadium Dissolved		*	*				NA	NA	
Zinc	7440-66-6	5000	4				NA	NA	
Zinc Dissolved		*	*				NA	NA	
Water Chemistry (mg/L)									
Alkalinity		*		NA		NA	20		NA
Chloride	16887-00-6	250,000		6.1	0.7		5	6	6
Dissolved Organic Carbon		*		NA	NA	NA	13	10	NA
Nitrate	14797-55-8	10,000		0.1	0.15	0.1			
Orthophosphate		*				0.11			
Sulfate	14808-79-8	250,000		2	1.2		2		
Dissolved Gases (mg/L)									
Carbon Dioxide	124-38-9	*		64.2	23.6	32	88.1	117.5	108.4
Hydrogen (nm/L)	1333-74-0	*		1.2	0.3	1.8 J	2.1	2.8	2.4
Nitrogen	7727-37-9	*		10.6	11.2	7	11	8.5	11.9
Oxygen	7782-44-7	*		1.99	5.28	2.71	1.54	0.5	1.35
Volatile Gases (µg/L)									
Ethane	74-84-0	*					0.04		0.04
Ethene	74-85-1	*		0.1	0.04		1.05		1.45
Methane	74-82-8	*		7.6	4.3	0.4	446.7		637.1

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-32B		OLD-OU2-33A		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G32B07	NTCOU2G32B08	NTCOU2G33A04	NTCOU2G33A04-D	NTCOU2G33A05
Sample Date				12/16/02	3/25/03	3/26/02	3/26/02	6/21/02
Volatiles (µg/L)								
1,1,2-Trichloroethane	79-00-5	5						
1,1-Dichloroethane	75-34-3	70						
1,1-Dichloroethene	75-35-4	7						
1,2-Dichloroethane	107-06-2	3						
1,2-Dichloropropane	78-87-5	5						
2-Butanone	78-93-3	4200						
Acetone	67-64-1	700						
Benzene	71-43-2	1						0.8 J
Bromodichloromethane	75-27-4	0.6						
Carbon Disulfide	75-15-0	700						
Chlorobenzene	108-90-7	100						
Chloroethane	75-00-3	12						4
Chloroform	67-66-3	5.7				0.4 J	0.4 J	
Chlorodibromomethane	124-48-1	0.4						
Chloromethane	74-87-3	2.7						
cis-1,2-Dichloroethene	156-59-2	70						
Ethylbenzene	100-41-4	30						
Methyl *tert*-Butyl Ether	1634-04-4	50						
Tetrachloroethene	127-18-4	3		0.56 J				
Toluene	108-88-3	40		1.8		0.6 J	0.5 J	
Total Xylenes	1330-20-7	20						
Trans-1,2-Dichloroethene	156-60-5	100						
Trichloroethene	79-01-6	3		9.1	7.6			
Vinyl Chloride	75-01-4	1						0.5 J
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067			NA	NA	NA
Aluminum Dissolved		*	*			NA	NA	NA
Antimony	7440-36-0	6	4.1			NA	NA	NA
Antimony Dissolved		*	*			NA	NA	NA
Arsenic	7440-38-2	50	5			NA	NA	NA
Arsenic Dissolved		*	*			NA	NA	NA
Barium	7440-39-3	2000	31.4			NA	NA	NA
Barium Dissolved		*	*			NA	NA	NA
Beryllium	7440-41-7	4	*			NA	NA	NA
Beryllium Dissolved		*	*			NA	NA	NA
Calcium	7440-70-2	*	36830			NA	NA	NA
Calcium Dissolved		*	*			NA	NA	NA
Chromium	7440-47-3	100	7.8			NA	NA	NA
Chromium Dissolved		*	*			NA	NA	NA
Cobalt	7440-48-4	420	*			NA	NA	NA
Cobalt Dissolved		*	*			NA	NA	NA
Copper	7440-50-8	1000	5.4			NA	NA	NA
Copper Dissolved		*	*			NA	NA	NA
Iron	7439-89-6	300	1227	1600	1250	NA	NA	3270
Iron Dissolved		*	*			4040	4540	NA
Lead	7439-92-1	15	4			NA	NA	NA
Lead Dissolved		*	*			NA	NA	NA
Magnesium	7439-95-4	*	4560			NA	NA	NA
Magnesium Dissolved		*	*			NA	NA	NA
Manganese	7439-96-5	50	17	8.9	7.9	NA	NA	11.5
Manganese Dissolved		*	*			25.4	25.1	NA
Mercury	7439-97-6	2	0.12			NA	NA	NA
Mercury Dissolved		*	*			NA	NA	NA
Nickel	7440-02-0	100	*			NA	NA	NA
Nickel Dissolved		*	*			NA	NA	NA
Potassium	7440-09-7	*	5400			NA	NA	NA
Potassium Dissolved		*	*			NA	NA	NA
Selenium	7782-49-2	50	9.7			NA	NA	NA
Selenium Dissolved		*	*			NA	NA	NA
Sodium	7440-23-5	160000	18222			NA	NA	NA
Sodium Dissolved		*	*			NA	NA	NA
Thallium	7440-28-0	2	3.8			NA	NA	NA
Thallium Dissolved		*	*			NA	NA	NA
Vanadium	7440-62-2	49	20.6			NA	NA	NA
Vanadium Dissolved		*	*			NA	NA	NA
Zinc	7440-66-6	5000	4			NA	NA	NA
Zinc Dissolved		*	*			NA	NA	NA
Water Chemistry (mg/L)								NA
Alkalinity		*		8.8	15	40	40	
Chloride	16887-00-6	250,000		7.5		14	16	20 J
Dissolved Organic Carbon		*		NA	NA	13	12	18
Nitrate	14797-55-8	10,000					0.06	
Orthophosphate		*		1.6	2.3			
Sulfate	14808-79-8	250,000		4		16	16	5.3
Dissolved Gases (mg/L)							NA	NA
Carbon Dioxide	124-38-9	*		129.2	92.6	78.3		159.8
Hydrogen (nm/L)	1333-74-0	*		2.6	2.4 J	3.6		3.4
Nitrogen	7727-37-9	*		11.4	5.3	10		10.5
Oxygen	7782-44-7	*		0.83		0.44		0.83
Volatile Gases (µg/L)							NA	NA
Ethane	74-84-0	*			0.01	0.03		
Ethene	74-85-1	*		0.9	0.05	0.82		
Methane	74-82-8	*		715.2	334.4	62.2		

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-33A			OLD-OU2-33B		
Sample ID		Florida	NTC	NTCOU2G33A06	NTCOU2G33A07	NTCOU2G33A08	NTCOU2G33B04	NTCOU2G33B05	NTCOU2G33B05-D
Sample Date		GCTL[b]	BGSV[c]	9/12/02	12/17/02	3/25/03	3/25/02	6/21/02	6/21/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1					1	2	2
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700			1.6				
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7					1 J		
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70					4	4	4
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3					46	50	51
Vinyl Chloride	75-01-4	1					2	3	3
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067				NA	NA	NA
Aluminum Dissolved		*	*				NA	NA	NA
Antimony	7440-36-0	6	4.1				NA	NA	NA
Antimony Dissolved		*	*				NA	NA	NA
Arsenic	7440-38-2	50	5				NA	NA	NA
Arsenic Dissolved		*	*				NA	NA	NA
Barium	7440-39-3	2000	31.4				NA	NA	NA
Barium Dissolved		*	*				NA	NA	NA
Beryllium	7440-41-7	4	*				NA	NA	NA
Beryllium Dissolved		*	*				NA	NA	NA
Calcium	7440-70-2	*	36830				NA	NA	NA
Calcium Dissolved		*	*				NA	NA	NA
Chromium	7440-47-3	100	7.8				NA	NA	NA
Chromium Dissolved		*	*				NA	NA	NA
Cobalt	7440-48-4	420	*				NA	NA	NA
Cobalt Dissolved		*	*				NA	NA	NA
Copper	7440-50-8	1000	5.4				NA	NA	NA
Copper Dissolved		*	*				NA	NA	NA
Iron	7439-89-6	300	1227	675	720	500	NA	4000	3900
Iron Dissolved		*	*				3600	NA	NA
Lead	7439-92-1	15	4					NA	NA
Lead Dissolved		*	*				NA	NA	NA
Magnesium	7439-95-4	*	4560				NA	NA	NA
Magnesium Dissolved		*	*				NA	NA	NA
Manganese	7439-96-5	50	17	14	30.3	7.2	NA	14.1	13.9
Manganese Dissolved		*	*				19.1	NA	NA
Mercury	7439-97-6	2	0.12				NA	NA	NA
Mercury Dissolved		*	*				NA	NA	NA
Nickel	7440-02-0	100	*				NA	NA	NA
Nickel Dissolved		*	*				NA	NA	NA
Potassium	7440-09-7	*	5400				NA	NA	NA
Potassium Dissolved		*	*				NA	NA	NA
Selenium	7782-49-2	50	9.7				NA	NA	NA
Selenium Dissolved		*	*				NA	NA	NA
Sodium	7440-23-5	160000	18222				NA	NA	NA
Sodium Dissolved		*	*				NA	NA	NA
Thallium	7440-28-0	2	3.8				NA	NA	NA
Thallium Dissolved		*	*				NA	NA	NA
Vanadium	7440-62-2	49	20.6				NA	NA	NA
Vanadium Dissolved		*	*				NA	NA	NA
Zinc	7440-66-6	5000	4				NA	NA	NA
Zinc Dissolved		*	*				NA	NA	NA
Water Chemistry (mg/L)									
Alkalinity		*			4.9	9	40	30	30
Chloride	16887-00-6	250,000		9.8	3.6		16	10 J	16 J
Dissolved Organic Carbon		*		NA	NA	NA	10	19	17
Nitrate	14797-55-8	10,000		2.9	3.2	1.7			
Orthophosphate		*							
Sulfate	14808-79-8	250,000		11	10		8.7	5.2	5
Dissolved Gases (mg/L)									NA
Carbon Dioxide	124-38-9	*		88.5	85.2	85.2	223.3	297	
Hydrogen (nm/L)	1333-74-0	*		1.7	0.8	1.8 J	1.6	2	
Nitrogen	7727-37-9	*		10.3	10.3	9.6	5.4	8.2	
Oxygen	7782-44-7	*		0.66	1.87	1.29	0.39	0.6	
Volatile Gases (µg/L)								NA	NA
Ethane	74-84-0	*					0.24		
Ethene	74-85-1	*			0.02		0.71		
Methane	74-82-8	*		0.5	50.1	1.5	1259.5		

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-33B					OLD-OU2-34A
Sample ID		Florida	NTC	NTCOU2G33B06	NTCOU2G33B06-D	NTCOU2G33B07	NTCOU2G33B08	NTCOU2G33B08-D	NTCOU2G34A04
Sample Date		GCTL[b]	BGSV[c]	9/12/02	9/12/02	12/17/02	3/25/03	3/25/03	3/26/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1		1	1	1.6	3	2.6	
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700				1.9			
Chlorobenzene	108-90-7	100		0.4 J		0.75 J	1.8	1.7	
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70		6	6	5.5	6.5	6.1	
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3					0.5 J		
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20		0.2 J					
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3		65	62	67	76.3	67.4	
Vinyl Chloride	75-01-4	1		4	4	7	5.8	5.6	
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067						NA
Aluminum Dissolved		*	*						NA
Antimony	7440-36-0	6	4.1						NA
Antimony Dissolved		*	*						NA
Arsenic	7440-38-2	50	5						NA
Arsenic Dissolved		*	*						NA
Barium	7440-39-3	2000	31.4						NA
Barium Dissolved		*	*						NA
Beryllium	7440-41-7	4	*						NA
Beryllium Dissolved		*	*						NA
Calcium	7440-70-2	*	36830						NA
Calcium Dissolved		*	*						NA
Chromium	7440-47-3	100	7.8						NA
Chromium Dissolved		*	*						NA
Cobalt	7440-48-4	420	*						NA
Cobalt Dissolved		*	*						NA
Copper	7440-50-8	1000	5.4						NA
Copper Dissolved		*	*						NA
Iron	7439-89-6	300	1227	2640	2170	1810	1870	1780	NA
Iron Dissolved		*	*						5440
Lead	7439-92-1	15	4						NA
Lead Dissolved		*	*						NA
Magnesium	7439-95-4	*	4560						NA
Magnesium Dissolved		*	*						NA
Manganese	7439-96-5	50	17	8.7	9.1	8.2	7.5	6.4	NA
Manganese Dissolved		*	*						9.4
Mercury	7439-97-6	2	0.12						NA
Mercury Dissolved		*	*						NA
Nickel	7440-02-0	100	*						NA
Nickel Dissolved		*	*						NA
Potassium	7440-09-7	*	5400						NA
Potassium Dissolved		*	*						NA
Selenium	7782-49-2	50	9.7						NA
Selenium Dissolved		*	*						NA
Sodium	7440-23-5	160000	18222						NA
Sodium Dissolved		*	*						NA
Thallium	7440-28-0	2	3.8						NA
Thallium Dissolved		*	*						NA
Vanadium	7440-62-2	49	20.6						NA
Vanadium Dissolved		*	*						NA
Zinc	7440-66-6	5000	4						NA
Zinc Dissolved		*	*						NA
Water Chemistry (mg/L)									**NA**
Alkalinity		*				13	NA	NA	
Chloride	16887-00-6	250,000		12	12	13			
Dissolved Organic Carbon		*		NA	NA	NA	NA	NA	
Nitrate	14797-55-8	10,000			0.05				
Orthophosphate		*				0.3	0.54	0.57	
Sulfate	14808-79-8	250,000		12	12	22			
Dissolved Gases (mg/L)					**NA**			**NA**	**NA**
Carbon Dioxide	124-38-9	*		378.8		328.5	287.9		
Hydrogen (nm/L)	1333-74-0	*				0.5	1.6 J		
Nitrogen	7727-37-9	*		10.7		7.7	7.3		
Oxygen	7782-44-7	*		0.45		0.69			
Volatile Gases (µg/L)					**NA**			**NA**	**NA**
Ethane	74-84-0	*		0.13		0.38	0.28		
Ethene	74-85-1	*		0.16		0.69	0.49		
Methane	74-82-8	*		2167.5		1552.4	1091.1		

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-34A			OLD-OU2-35B		
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2G34A05	NTCOU2G34A06	NTCOU2G34A08	NTCOU2G35B04	NTCOU2G35B05	NTCOU2G35B06
Sample Date				6/19/02	9/11/02	3/25/03	3/28/02	6/20/02	9/12/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7			0.4 J				0.8 J
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	1710			NA	910	
Aluminum Dissolved		*	*	NA			NA	NA	
Antimony	7440-36-0	6	4.1				NA		
Antimony Dissolved		*	*	NA			NA	NA	
Arsenic	7440-38-2	50	5				NA		
Arsenic Dissolved		*	*	NA			NA	NA	
Barium	7440-39-3	2000	31.4	31			NA	38	
Barium Dissolved		*	*	NA			NA	NA	
Beryllium	7440-41-7	4	*				NA		
Beryllium Dissolved		*	*	NA			NA	NA	
Calcium	7440-70-2	*	36830	8880			NA	8940	
Calcium Dissolved		*	*	NA			NA	NA	
Chromium	7440-47-3	100	7.8	3.1			NA	2	
Chromium Dissolved		*	*	NA			NA	NA	
Cobalt	7440-48-4	420	*				NA		
Cobalt Dissolved		*	*	NA			NA	NA	
Copper	7440-50-8	1000	5.4				NA	6.9	
Copper Dissolved		*	*	NA			NA	NA	
Iron	7439-89-6	300	1227	5510	283	6460	NA	3160	2140
Iron Dissolved		*	*	NA			3640	NA	
Lead	7439-92-1	15	4	3.6			NA	2.3	
Lead Dissolved		*	*	NA			NA	NA	
Magnesium	7439-95-4	*	4560	3650			NA	3290	
Magnesium Dissolved		*	*	NA			NA	NA	
Manganese	7439-96-5	50	17	8	1.8	8.1	NA	10.9	7.5
Manganese Dissolved		*	*	NA			11.8	NA	
Mercury	7439-97-6	2	0.12				NA		
Mercury Dissolved		*	*	NA			NA	NA	
Nickel	7440-02-0	100	*	1.8			NA	1.7	
Nickel Dissolved		*	*	NA			NA	NA	
Potassium	7440-09-7	*	5400	2710			NA	1960	
Potassium Dissolved		*	*	NA			NA	NA	
Selenium	7782-49-2	50	9.7				NA		
Selenium Dissolved		*	*	NA			NA	NA	
Sodium	7440-23-5	160000	18222	20000			NA	9840	
Sodium Dissolved		*	*	NA			NA	NA	
Thallium	7440-28-0	2	3.8				NA		
Thallium Dissolved		*	*	NA			NA	NA	
Vanadium	7440-62-2	49	20.6	17.2			NA	4	
Vanadium Dissolved		*	*	NA			NA	NA	
Zinc	7440-66-6	5000	4				NA	6.1	
Zinc Dissolved		*	*	NA			NA	NA	
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-35B	OLD-OU2-36A				OLD-OU2-37B
Sample ID		Florida	NTC	NTCOU2G35B08	NTCOU2G36A04	NTCOU2G36A05	NTCOU2G36A06	NTCOU2G36A08	NTCOU2G37B05
Sample Date		GCTL[b]	BGSV[c]	3/26/03	3/26/02	6/21/02	9/12/02	3/25/03	6/21/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7							
cis-1,2-Dichloroethene	156-59-2	70							
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1							
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067		NA	3010			1820
Aluminum Dissolved		*	*		NA	NA			1080
Antimony	7440-36-0	6	4.1		NA				NA
Antimony Dissolved		*	*		NA	NA			NA
Arsenic	7440-38-2	50	5		NA				NA
Arsenic Dissolved		*	*		NA	NA			NA
Barium	7440-39-3	2000	31.4		NA	30.5			61.1
Barium Dissolved		*	*		NA	NA			55.2
Beryllium	7440-41-7	4	*		NA				NA
Beryllium Dissolved		*	*		NA	NA			NA
Calcium	7440-70-2	*	36830		NA	3160			18800
Calcium Dissolved		*	*		NA	NA			19100
Chromium	7440-47-3	100	7.8		NA	3.4			3.7
Chromium Dissolved		*	*		NA	NA			2.4
Cobalt	7440-48-4	420	*		NA				NA
Cobalt Dissolved		*	*		NA	NA			NA
Copper	7440-50-8	1000	5.4		NA				NA
Copper Dissolved		*	*		NA	NA			NA
Iron	7439-89-6	300	1227	1950	NA	1200	1670	3040	3050
Iron Dissolved		*	*		3820	NA			2800
Lead	7439-92-1	15	4		NA				NA
Lead Dissolved		*	*		NA	NA			2.5
Magnesium	7439-95-4	*	4560		NA	1390			4470
Magnesium Dissolved		*	*		NA	NA			4440
Manganese	7439-96-5	50	17	5.2	NA	5.7		3.2	10.6
Manganese Dissolved		*	*		5.9	NA			11.2
Mercury	7439-97-6	2	0.12		NA				NA
Mercury Dissolved		*	*		NA	NA			NA
Nickel	7440-02-0	100	*		NA	4.4			2
Nickel Dissolved		*	*		NA	NA			1.4
Potassium	7440-09-7	*	5400		NA	1590			11200
Potassium Dissolved		*	*		NA	NA			11800
Selenium	7782-49-2	50	9.7		NA				NA
Selenium Dissolved		*	*		NA	NA			NA
Sodium	7440-23-5	160000	18222		NA	5920			37500
Sodium Dissolved		*	*		NA	NA			42800
Thallium	7440-28-0	2	3.8		NA				NA
Thallium Dissolved		*	*		NA	NA			NA
Vanadium	7440-62-2	49	20.6		NA	6			6.2
Vanadium Dissolved		*	*		NA	NA			5.4
Zinc	7440-66-6	5000	4		NA				NA
Zinc Dissolved		*	*		NA	NA			NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-37B		OLD-OU2-DP01A			OLD-OU2-DP01B
Sample ID		Florida	NTC	NTCOU2G37B06	NTCOU2G37B08	NTCOU2GP1A04	NTCOU2DP1A06	NTCOU2GP1A08	NTCOU2GP1B04
Sample Date		GCTL[b]	BGSV[c]	9/11/02	3/25/03	3/26/02	9/12/02	3/26/03	3/26/02
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70		0.9 J					
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3		2					
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700			5.8				
Benzene	71-43-2	1		15	10.9				
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100		20	16.6		0.4 J		
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7					1 J		
cis-1,2-Dichloroethene	156-59-2	70		12	6.4				
Ethylbenzene	100-41-4	30		0.8 J					
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							
Toluene	108-88-3	40			0.61 J				
Total Xylenes	1330-20-7	20		17	3.7				
Trans-1,2-Dichloroethene	156-60-5	100		4	1.1				
Trichloroethene	79-01-6	3							
Vinyl Chloride	75-01-4	1		24	6.6				1 J
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067			NA			NA
Aluminum Dissolved		*	*			NA			NA
Antimony	7440-36-0	6	4.1			NA			NA
Antimony Dissolved		*	*			NA			NA
Arsenic	7440-38-2	50	5			NA			NA
Arsenic Dissolved		*	*			NA			NA
Barium	7440-39-3	2000	31.4			NA			NA
Barium Dissolved		*	*			NA			NA
Beryllium	7440-41-7	4	*			NA			NA
Beryllium Dissolved		*	*			NA			NA
Calcium	7440-70-2	*	36830			NA			NA
Calcium Dissolved		*	*			NA			NA
Chromium	7440-47-3	100	7.8			NA			NA
Chromium Dissolved		*	*			NA			NA
Cobalt	7440-48-4	420	*			NA			NA
Cobalt Dissolved		*	*			NA			NA
Copper	7440-50-8	1000	5.4			NA			NA
Copper Dissolved		*	*			NA			NA
Iron	7439-89-6	300	1227	3110[d]	3440	NA	1830	1990	NA
Iron Dissolved		*	*			814			2280
Lead	7439-92-1	15	4			NA			NA
Lead Dissolved		*	*			NA			NA
Magnesium	7439-95-4	*	4560			NA			NA
Magnesium Dissolved		*	*			NA			NA
Manganese	7439-96-5	50	17	12.9[d]	8.1	NA	8	12.2	NA
Manganese Dissolved		*	*						11.6
Mercury	7439-97-6	2	0.12			NA			NA
Mercury Dissolved		*	*			NA			NA
Nickel	7440-02-0	100	*			NA			NA
Nickel Dissolved		*	*			NA			NA
Potassium	7440-09-7	*	5400			NA			NA
Potassium Dissolved		*	*			NA			NA
Selenium	7782-49-2	50	9.7			NA			NA
Selenium Dissolved		*	*			NA			NA
Sodium	7440-23-5	160000	18222			NA			NA
Sodium Dissolved		*	*			NA			NA
Thallium	7440-28-0	2	3.8			NA			NA
Thallium Dissolved		*	*			NA			NA
Vanadium	7440-62-2	49	20.6			NA			NA
Vanadium Dissolved		*	*			NA			NA
Zinc	7440-66-6	5000	4			NA			NA
Zinc Dissolved		*	*			NA			NA
Water Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Alkalinity		*							
Chloride	16887-00-6	250,000							
Dissolved Organic Carbon		*							
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000							
Dissolved Gases (mg/L)				NA	NA	NA	NA	NA	NA
Carbon Dioxide	124-38-9	*							
Hydrogen (nm/L)	1333-74-0	*							
Nitrogen	7727-37-9	*							
Oxygen	7782-44-7	*							
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	NA
Ethane	74-84-0	*							
Ethene	74-85-1	*							
Methane	74-82-8	*							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-DP01B		OLD-OU2-DP02A			
Sample ID		Florida GCTL[b]	NTC BGSV[c]	NTCOU2DP1B06	NTCOU2GP1B08	NTCOU2GP2A04	NTCOU2GP2A05	NTCOU2DP2A06	NTCOU2GP2A08
Sample Date				9/12/02	3/26/03	3/26/02	6/19/02	9/12/02	3/26/03
Volatiles (µg/L)									
1,1,2-Trichloroethane	79-00-5	5							
1,1-Dichloroethane	75-34-3	70							
1,1-Dichloroethene	75-35-4	7							
1,2-Dichloroethane	107-06-2	3							
1,2-Dichloropropane	78-87-5	5							
2-Butanone	78-93-3	4200							
Acetone	67-64-1	700							
Benzene	71-43-2	1							
Bromodichloromethane	75-27-4	0.6							
Carbon Disulfide	75-15-0	700							
Chlorobenzene	108-90-7	100							
Chloroethane	75-00-3	12							
Chloroform	67-66-3	5.7							
Chlorodibromomethane	124-48-1	0.4							
Chloromethane	74-87-3	2.7		0.5 J					
cis-1,2-Dichloroethene	156-59-2	70				8	0.3 J	1	89.8
Ethylbenzene	100-41-4	30							
Methyl *tert*-Butyl Ether	1634-04-4	50							
Tetrachloroethene	127-18-4	3							23.5
Toluene	108-88-3	40							
Total Xylenes	1330-20-7	20							
Trans-1,2-Dichloroethene	156-60-5	100							
Trichloroethene	79-01-6	3				23	1	4	790
Vinyl Chloride	75-01-4	1							10.9
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067			NA	NA		
Aluminum Dissolved		*	*			NA	NA		
Antimony	7440-36-0	6	4.1			NA	NA		
Antimony Dissolved		*	*			NA	NA		
Arsenic	7440-38-2	50	5			NA	NA		
Arsenic Dissolved		*	*			NA	NA		
Barium	7440-39-3	2000	31.4			NA	NA		
Barium Dissolved		*	*			NA	NA		
Beryllium	7440-41-7	4	*			NA	NA		
Beryllium Dissolved		*	*			NA	NA		
Calcium	7440-70-2	*	36830			NA	NA		
Calcium Dissolved		*	*			NA	NA		
Chromium	7440-47-3	100	7.8			NA	NA		
Chromium Dissolved		*	*			NA	NA		
Cobalt	7440-48-4	420	*			NA	NA		
Cobalt Dissolved		*	*			NA	NA		
Copper	7440-50-8	1000	5.4			NA	NA		
Copper Dissolved		*	*			NA	NA		
Iron	7439-89-6	300	1227	1560	1300	NA	3340	3030	1610
Iron Dissolved		*	*			2870	NA		
Lead	7439-92-1	15	4			NA	NA		
Lead Dissolved		*	*			NA	NA		
Magnesium	7439-95-4	*	4560			NA	NA		
Magnesium Dissolved		*	*			NA	NA		
Manganese	7439-96-5	50	17	8	7.6	NA		2.3	1.3
Manganese Dissolved		*	*				NA		
Mercury	7439-97-6	2	0.12			NA	NA		
Mercury Dissolved		*	*			NA	NA		
Nickel	7440-02-0	100	*			NA	NA		
Nickel Dissolved		*	*			NA	NA		
Potassium	7440-09-7	*	5400			NA	NA		
Potassium Dissolved		*	*			NA	NA		
Selenium	7782-49-2	50	9.7			NA	NA		
Selenium Dissolved		*	*			NA	NA		
Sodium	7440-23-5	160000	18222			NA	NA		
Sodium Dissolved		*	*			NA	NA		
Thallium	7440-28-0	2	3.8			NA	NA		
Thallium Dissolved		*	*			NA	NA		
Vanadium	7440-62-2	49	20.6			NA	NA		
Vanadium Dissolved		*	*			NA	NA		
Zinc	7440-66-6	5000	4			NA	NA		
Zinc Dissolved		*	*			NA	NA		
Water Chemistry (mg/L)				NA	NA	NA		NA	
Alkalinity		*					NA		7
Chloride	16887-00-6	250,000					40 J		
Dissolved Organic Carbon		*					6.9		NA
Nitrate	14797-55-8	10,000							
Orthophosphate		*							
Sulfate	14808-79-8	250,000					14		
Dissolved Gases (mg/L)				NA	NA	NA		NA	
Carbon Dioxide	124-38-9	*					96.6		127.9
Hydrogen (nm/L)	1333-74-0	*					1.9		1.6 J
Nitrogen	7727-37-9	*					12.3		17.9
Oxygen	7782-44-7	*					0.5		3.1
Volatile Gases (µg/L)				NA	NA	NA	NA	NA	
Ethane	74-84-0	*							0.13
Ethene	74-85-1	*							0.93
Methane	74-82-8	*							646.8

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-DP02B			
Sample ID		Florida	NTC	NTCOU2GP2B04	NTCOU2DP2B06	NTCOU2DP2B06-D	NTCOU2GP2B07
Sample Date		GCTL[b]	BGSV[c]	3/25/02	9/12/02	9/12/02	12/16/02
Volatiles (µg/L)							
1,1,2-Trichloroethane	79-00-5	5					
1,1-Dichloroethane	75-34-3	70					
1,1-Dichloroethene	75-35-4	7					
1,2-Dichloroethane	107-06-2	3					
1,2-Dichloropropane	78-87-5	5					
2-Butanone	78-93-3	4200					
Acetone	67-64-1	700					
Benzene	71-43-2	1					
Bromodichloromethane	75-27-4	0.6					
Carbon Disulfide	75-15-0	700					
Chlorobenzene	108-90-7	100					
Chloroethane	75-00-3	12					
Chloroform	67-66-3	5.7					
Chlorodibromomethane	124-48-1	0.4					
Chloromethane	74-87-3	2.7					
cis-1,2-Dichloroethene	156-59-2	70					25
Ethylbenzene	100-41-4	30					
Methyl *tert*-Butyl Ether	1634-04-4	50					
Tetrachloroethene	127-18-4	3					3.6
Toluene	108-88-3	40					1.3
Total Xylenes	1330-20-7	20					
Trans-1,2-Dichloroethene	156-60-5	100					
Trichloroethene	79-01-6	3					440
Vinyl Chloride	75-01-4	1					14
Inorganics (µg/L)							
Aluminum	7429-90-5	200	4067	NA			
Aluminum Dissolved		*	*	NA			
Antimony	7440-36-0	6	4.1	NA			
Antimony Dissolved		*	*	NA			
Arsenic	7440-38-2	50	5	NA			
Arsenic Dissolved		*	*	NA			
Barium	7440-39-3	2000	31.4	NA			
Barium Dissolved		*	*	NA			
Beryllium	7440-41-7	4	*	NA			
Beryllium Dissolved		*	*	NA			
Calcium	7440-70-2	*	36830	NA			
Calcium Dissolved		*	*	NA			
Chromium	7440-47-3	100	7.8	NA			
Chromium Dissolved		*	*	NA			
Cobalt	7440-48-4	420	*	NA			
Cobalt Dissolved		*	*	NA			
Copper	7440-50-8	1000	5.4	NA			
Copper Dissolved		*	*	NA			
Iron	7439-89-6	300	1227	NA	842	927	1090
Iron Dissolved		*	*	1010			
Lead	7439-92-1	15	4	NA			
Lead Dissolved		*	*	NA			
Magnesium	7439-95-4	*	4560	NA			
Magnesium Dissolved		*	*	NA			
Manganese	7439-96-5	50	17	NA	4.2		5.8
Manganese Dissolved		*	*	5.8			
Mercury	7439-97-6	2	0.12	NA			
Mercury Dissolved		*	*	NA			
Nickel	7440-02-0	100	*	NA			
Nickel Dissolved		*	*	NA			
Potassium	7440-09-7	*	5400	NA			
Potassium Dissolved		*	*	NA			
Selenium	7782-49-2	50	9.7	NA			
Selenium Dissolved		*	*	NA			
Sodium	7440-23-5	160000	18222	NA			
Sodium Dissolved		*	*	NA			
Thallium	7440-28-0	2	3.8	NA			
Thallium Dissolved		*	*	NA			
Vanadium	7440-62-2	49	20.6	NA			
Vanadium Dissolved		*	*	NA			
Zinc	7440-66-6	5000	4	NA			
Zinc Dissolved		*	*	NA			
Water Chemistry (mg/L)					NA	NA	
Alkalinity		*					15
Chloride	16887-00-6	250,000		14			8
Dissolved Organic Carbon		*		7.3			NA
Nitrate	14797-55-8	10,000					
Orthophosphate		*					1.1
Sulfate	14808-79-8	250,000					1.3
Dissolved Gases (mg/L)						NA	
Carbon Dioxide	124-38-9	*		95.2	120.6		145.9
Hydrogen (nm/L)	1333-74-0	*		2.1	5		1.6
Nitrogen	7727-37-9	*		12	13.4		8.5
Oxygen	7782-44-7	*		1.23	1.63		0.15
Volatile Gases (µg/L)						NA	
Ethane	74-84-0	*		0.03	0.32		0.48
Ethene	74-85-1	*		0.64	0.45		2.84
Methane	74-82-8	*		244.1	410.1		815.2

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-DP02B	
Sample ID		Florida	NTC	NTCOU2GP2B08	NTCOU2GP2B08-D
Sample Date		GCTL[b]	BGSV[c]	3/26/03	3/26/03
Volatiles (µg/L)					
1,1,2-Trichloroethane	79-00-5	5			
1,1-Dichloroethane	75-34-3	70			
1,1-Dichloroethene	75-35-4	7			0.64 J
1,2-Dichloroethane	107-06-2	3			
1,2-Dichloropropane	78-87-5	5			
2-Butanone	78-93-3	4200			
Acetone	67-64-1	700			
Benzene	71-43-2	1			0.61 J
Bromodichloromethane	75-27-4	0.6			
Carbon Disulfide	75-15-0	700			
Chlorobenzene	108-90-7	100			
Chloroethane	75-00-3	12			
Chloroform	67-66-3	5.7			
Chlorodibromomethane	124-48-1	0.4			
Chloromethane	74-87-3	2.7			
cis-1,2-Dichloroethene	156-59-2	70		60.4	74.2
Ethylbenzene	100-41-4	30			
Methyl *tert*-Butyl Ether	1634-04-4	50			
Tetrachloroethene	127-18-4	3		30.3	36.9
Toluene	108-88-3	40			2.3
Total Xylenes	1330-20-7	20			
Trans-1,2-Dichloroethene	156-60-5	100			
Trichloroethene	79-01-6	3		1270	1180
Vinyl Chloride	75-01-4	1		16 J	17.4
Inorganics (µg/L)					
Aluminum	7429-90-5	200	4067		
Aluminum Dissolved		*	*		
Antimony	7440-36-0	6	4.1		
Antimony Dissolved		*	*		
Arsenic	7440-38-2	50	5		
Arsenic Dissolved		*	*		
Barium	7440-39-3	2000	31.4		
Barium Dissolved		*	*		
Beryllium	7440-41-7	4	*		
Beryllium Dissolved		*	*		
Calcium	7440-70-2	*	36830		
Calcium Dissolved		*	*		
Chromium	7440-47-3	100	7.8		
Chromium Dissolved		*	*		
Cobalt	7440-48-4	420	*		
Cobalt Dissolved		*	*		
Copper	7440-50-8	1000	5.4		
Copper Dissolved		*	*		
Iron	7439-89-6	300	1227	717	788
Iron Dissolved		*	*		
Lead	7439-92-1	15	4		
Lead Dissolved		*	*		
Magnesium	7439-95-4	*	4560		
Magnesium Dissolved		*	*		
Manganese	7439-96-5	50	17	2.7	3.5
Manganese Dissolved		*	*		
Mercury	7439-97-6	2	0.12		
Mercury Dissolved		*	*		
Nickel	7440-02-0	100	*		
Nickel Dissolved		*	*		
Potassium	7440-09-7	*	5400		
Potassium Dissolved		*	*		
Selenium	7782-49-2	50	9.7		
Selenium Dissolved		*	*		
Sodium	7440-23-5	160000	18222		
Sodium Dissolved		*	*		
Thallium	7440-28-0	2	3.8		
Thallium Dissolved		*	*		
Vanadium	7440-62-2	49	20.6		
Vanadium Dissolved		*	*		
Zinc	7440-66-6	5000	4		
Zinc Dissolved		*	*		
Water Chemistry (mg/L)					
Alkalinity		*		20	20
Chloride	16887-00-6	250,000			
Dissolved Organic Carbon		*		NA	NA
Nitrate	14797-55-8	10,000			
Orthophosphate		*		1.8	1.4
Sulfate	14808-79-8	250,000			
Dissolved Gases (mg/L)					NA
Carbon Dioxide	124-38-9	*		203.1	
Hydrogen (nm/L)	1333-74-0	*		2.7 J	
Nitrogen	7727-37-9	*		9.1	
Oxygen	7782-44-7	*		0.22	
Volatile Gases (µg/L)					NA
Ethane	74-84-0	*		1.03	
Ethene	74-85-1	*		6.11	
Methane	74-82-8	*		1235.1	

Notes:

[a] For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV. Analytes with no GCTL are not considered to have exceedances.

[b] Groundwater Cleanup Target Level [Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].

[c] Background Screening Value (Background Sampling Report for NTC, Orlando, Florida; ABB Environmental Services, August 1995) for inorganics only.

[d] Sample filtered in the field.

. Indicates that the screening value is not available.
Empty cells indicate non-detects.
"J" qualifier indicates an estimated value.
NA - No analysis performed.
nm/L - nanmoles per liter.
Only chemicals detected in at least one sample are shown.
Values in shaded cells are equal to or exceed the screening criteria.

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW001		SW002	SW003	SW004	SW005	
Sample ID		Florida	NTCSW00100	NTCSW00103	NTCSW00200	NTCSW00300	NTCSW00400	NTCSW00500	NTCSW00503
Sample Date		SWCTL[a]	7/1/97	8/11/99	7/1/97	7/1/97	7/1/97	7/1/97	8/11/99
Volatiles (µg/L)				**NA**					**NA**
Acetone	67-64-1	1,692							
Benzene	71-43-2	71.28[b]							
Carbon Disulfide	75-15-0	105							
Chloroform	67-66-3	470.8[b]							
Chloromethane	74-87-3	470.8[b]							
cis-1,2-Dichloroethene	156-59-2	*							
Tetrachloroethene	127-18-4	8.85							
Toluene	108-88-3	475							
Trichloroethene	79-01-6	80.7[b]							
Inorganics (µg/L)									
Iron	7439-89-6	1000	272 J	5010	292 J	324 J	606 J	288 J	
Manganese	7439-96-5	*	6.5 J	159	9.3 J	14.7 J			
Water Chemistry (mg/L)				**NA**					**NA**
Alkalinity		*	23.9		24.9	24.4	20.5	21.4	
Chloride	16887-00-6	*	NA		NA	NA	NA	NA	
Hardness as $CaCO_3$		*	34.4		28.6	32.5	43.9	51.6	
Total Alkalinity		*	23.9		24.9	24.4	20.5	21.4	
Total Dissolved Solids		*	106		169	153	122	104	
Total Suspended Solids		*	9		23		11		
Total Organic Carbon		*							

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW006		SW007	SW008		SW009
Sample ID		Florida	NTCSW00600	NTCSW00600-D	NTCSW00700	NTCSW00800	NTCSW00803	NTCSW00900
Sample Date		SWCTL[a]	7/2/97	7/2/97	7/2/97	7/18/97	8/12/99	7/2/97
Volatiles (µg/L)							**NA**	
Acetone	67-64-1	1,692						
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]						
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475						
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000	1330 J	146 J	588 J	1240	288	6530 J
Manganese	7439-96-5	*	55.0 J	24.4 J	57.7 J	6.4		31.6 J
Water Chemistry (mg/L)							**NA**	
Alkalinity		*	24.4	30.2	19.9	61.3		17.1
Chloride	16887-00-6	*	NA	NA	NA	NA		NA
Hardness as $CaCO_3$		*	61.1	42	45.8	NA		59.2
Total Alkalinity		*	24.4	30.2	19.9	61.3		17.1
Total Dissolved Solids		*	223	159	365	90		166
Total Suspended Solids		*	120	31	85	42		100
Total Organic Carbon		*						

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW010			SW011	SW012		SW013
Sample ID		Florida	NTCSW01000	NTCSW01002	NTCSW01003	NTCSW01100	NTCSW01200	NTCSW01203	NTCSW01300
Sample Date		SWCTL[a]	7/2/97	9/24/97	8/12/99	8/25/98	8/25/98	8/11/99	8/25/98
Volatiles (µg/L)					**NA**			**NA**	
Acetone	67-64-1	1,692							
Benzene	71-43-2	71.28[b]							
Carbon Disulfide	75-15-0	105							
Chloroform	67-66-3	470.8[b]							
Chloromethane	74-87-3	470.8[b]							
cis-1,2-Dichloroethene	156-59-2	*							
Tetrachloroethene	127-18-4	8.85							
Toluene	108-88-3	475				16.3			
Trichloroethene	79-01-6	80.7[b]							
Inorganics (µg/L)									
Iron	7439-89-6	1000	49000 J	3200	1700	7090	4150	1180	4680
Manganese	7439-96-5	*	1360 J	50		49.9	54.3	12.5	77.9
Water Chemistry (mg/L)				**NA**	**NA**			**NA**	
Alkalinity		*	64.4			NA	NA		NA
Chloride	16887-00-6	*	NA			NA	NA		NA
Hardness as $CaCO_3$		*	155			NA	NA		NA
Total Alkalinity		*	64.4			NA	NA		NA
Total Dissolved Solids		*	67			NA	NA		NA
Total Suspended Solids		*	725			NA	NA		NA
Total Organic Carbon		*				25.7	13.1		58.9

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW014		SW015		SW016	
Sample ID		Florida	NTCSW01400	NTCSW01403	NTCSW01500	NTCSW01503	NTCSW01600	NTCSW01600-D
Sample Date		SWCTL[a]	8/26/98	8/11/99	8/26/98	8/12/99	8/25/98	8/25/98
Volatiles (µg/L)				**NA**		**NA**		
Acetone	67-64-1	1,692						
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]						
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475						
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000	2140	1510	12000	899	4850	3680
Manganese	7439-96-5	*		19.7	47.7	11.7	14.9	
Water Chemistry (mg/L)				**NA**		**NA**		
Alkalinity		*	NA		NA		NA	NA
Chloride	16887-00-6	*	NA		NA		NA	NA
Hardness as $CaCO_3$		*	NA		NA		NA	NA
Total Alkalinity		*	NA		NA		NA	NA
Total Dissolved Solids		*	NA		NA		NA	NA
Total Suspended Solids		*	NA		NA		NA	NA
Total Organic Carbon		*	16.7		30.5		12.6	15.4

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW017	SW018		SW019		
Sample ID		Florida	NTCSW01700	NTCSW01800	NTCSW01803	NTCSW01900	NTCSW01900-D	NTCSW01903
Sample Date		SWCTL[a]	8/25/98	8/27/98	8/12/99	8/25/98	8/25/98	8/11/99
Volatiles (µg/L)					**NA**			**NA**
Acetone	67-64-1	1,692						
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]						
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475						
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000		2900	2340	2050	1340	
Manganese	7439-96-5	*	16.7		10.9	18.8	16.4	
Water Chemistry (mg/L)					**NA**			**NA**
Alkalinity		*	NA	NA		NA	NA	
Chloride	16887-00-6	*	NA	NA		NA	NA	
Hardness as $CaCO_3$		*	NA	NA		NA	NA	
Total Alkalinity		*	NA	NA		NA	NA	
Total Dissolved Solids		*	NA	NA		NA	NA	
Total Suspended Solids		*	NA	NA		NA	NA	
Total Organic Carbon		*	7.6	23.4		12.8	22.5	

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW020			SW021		SW022
Sample ID		Florida	NTCSW02000	NTCSW02003	NTCSW02003-D	NTCSW02100	NTCSW02103	NTCSW02200
Sample Date		SWCTL[a]	8/27/98	8/12/99	8/12/99	8/26/98	8/12/99	8/26/98
Volatiles (µg/L)				**NA**	**NA**		**NA**	
Acetone	67-64-1	1,692						
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]						
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475						
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000	149000	277	397	83300		732
Manganese	7439-96-5	*	419	4.7	4.9	367		16.6
Water Chemistry (mg/L)				**NA**	**NA**		**NA**	
Alkalinity		*	NA			NA		NA
Chloride	16887-00-6	*	NA			NA		NA
Hardness as $CaCO_3$		*	NA			NA		NA
Total Alkalinity		*	NA			NA		NA
Total Dissolved Solids		*	NA			NA		NA
Total Suspended Solids		*	NA			NA		NA
Total Organic Carbon		*	108			75.9		6.3

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW023		SW024	SW025	SW026	SW027
Sample ID		Florida	NTCSW02303	NTCSW02303-D	NTCSW02403	NTCSW02503	NTCSW02603	NTCSW02703
Sample Date		SWCTL[a]	8/10/99	8/10/99	8/10/99	8/10/99	8/11/99	8/10/99
Volatiles (µg/L)								
Acetone	67-64-1	1,692						
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]			0.32 J			
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475						0.31 J
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000	968	1070	1290	769	486	523
Manganese	7439-96-5	*	72.3	56	78.3	86.7	14.1	
Water Chemistry (mg/L)								
Alkalinity		*	NA	NA	NA	NA	31	NA
Chloride	16887-00-6	*	NA	NA	NA	NA	NA	NA
Hardness as $CaCO_3$		*	130	120	120	48	42	50
Total Alkalinity		*	81	77	74	29	NA	42
Total Dissolved Solids		*	170	170	150	71	86	77
Total Suspended Solids		*	7				5	
Total Organic Carbon		*	NA	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	SW028	OLD-OU2-SW29				
Sample ID		Florida	NTCSW02803	NTCOU2SW2904	NTCOU2SW2905	NTCOU2SW2906	NTCOU2SW2907	NTCOU2SW2908
Sample Date		SWCTL[a]	8/10/99	3/27/02	6/26/02	9/17/02	12/18/02	3/25/03
Volatiles (µg/L)								
Acetone	67-64-1	1,692	12 J					11.1
Benzene	71-43-2	71.28[b]						
Carbon Disulfide	75-15-0	105						
Chloroform	67-66-3	470.8[b]						
Chloromethane	74-87-3	470.8[b]						
cis-1,2-Dichloroethene	156-59-2	*						
Tetrachloroethene	127-18-4	8.85						
Toluene	108-88-3	475	0.36 J					
Trichloroethene	79-01-6	80.7[b]						
Inorganics (µg/L)								
Iron	7439-89-6	1000	540	6200	1710	784	977	118000
Manganese	7439-96-5	*		30	26.7	22.3	26.3	226
Water Chemistry (mg/L)								
Alkalinity		*	NA	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	NA	34	23 J	10	18	
Hardness as $CaCO_3$		*	81	NA	NA	NA	NA	NA
Total Alkalinity		*	57	NA	NA	NA	NA	NA
Total Dissolved Solids		*	120	NA	NA	NA	NA	NA
Total Suspended Solids		*	28	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW30				
Sample ID		Florida SWCTL[a]	NTCOU2SW3004	NTCOU2SW3005	NTCOU2SW3006	NTCOU2SW3007	NTCOU2SW3008
Sample Date			3/27/02	6/26/02	9/17/02	12/18/02	3/25/03
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105					
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	3070	2840	1620	831	8740
Manganese	7439-96-5	*	34.3	36.6	28.6	24.5	34.8
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	34	20 J	10	18	
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW31				
Sample ID		Florida SWCTL[a]	NTCOU2SW3104	NTCOU2SW3105	NTCOU2SW3106	NTCOU2SW3107	NTCOU2SW3108
Sample Date			3/27/02	6/26/02	9/17/02	12/18/02	3/25/03
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105				1.1	
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]			2		
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	781	487	40600	582	662
Manganese	7439-96-5	*	8.1	5.3	115	9.5	11.1
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	33	10 J	10	12	
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW32				
Sample ID		Florida SWCTL[a]	NTCOU2SW3204	NTCOU2SW3205	NTCOU2SW3205-D	NTCOU2SW3206	NTCOU2SW3207
Sample Date			3/27/02	6/26/02	6/26/02	9/17/02	12/18/02
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105					1.9
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475	8				
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	13200	479	505	2300	357
Manganese	7439-96-5	*	131	8.5	8.1	31.1	3.9
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	20	8 J	4 J	8	8.8
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW32	OLD-OU2-SW33			
Sample ID		Florida SWCTL[a]	NTCOU2SW3208	NTCOU2SW3304	NTCOU2SW3305	NTCOU2SW3306	NTCOU2SW3307
Sample Date			3/26/03	3/27/02	6/26/02	9/17/02	12/18/02
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]				0.1 J	
Carbon Disulfide	75-15-0	105					0.71 J
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85		0.5 J			
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	720	1460	524	599	362
Manganese	7439-96-5	*	14.5	110	6.1	22.2	3.1
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*		35	7 J	8	8.6
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW33	OLD-OU2-SW34			
Sample ID		Florida SWCTL[a]	NTCOU2SW3308	NTCOU2SW3404	NTCOU2SW3405	NTCOU2SW3406	NTCOU2SW3407
Sample Date			3/26/03	3/27/02	6/26/02	9/17/02	12/18/02
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105					1.4
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	2240	797	530	314	
Manganese	7439-96-5	*	32.6	28.8	5.4	2.2	2.1
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*		45	8 J	9.3	8.8
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW34	OLD-OU2-SW35		
Sample ID		Florida SWCTL[a]	NTCOU2SW3408	NTCOU2SW3504	NTCOU2SW3505	NTCOU2SW3506
Sample Date			3/26/03	3/27/02	6/26/02	9/17/02
Volatiles (µg/L)						
Acetone	67-64-1	1,692				
Benzene	71-43-2	71.28[b]				
Carbon Disulfide	75-15-0	105				
Chloroform	67-66-3	470.8[b]				
Chloromethane	74-87-3	470.8[b]				
cis-1,2-Dichloroethene	156-59-2	*				
Tetrachloroethene	127-18-4	8.85				
Toluene	108-88-3	475				
Trichloroethene	79-01-6	80.7[b]				
Inorganics (µg/L)						
Iron	7439-89-6	1000	245	1240	559	280
Manganese	7439-96-5	*	1.5	12.2	6	2
Water Chemistry (mg/L)						
Alkalinity		*	NA	NA	NA	NA
Chloride	16887-00-6	*		39	8 J	9.4
Hardness as $CaCO_3$		*	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW35				
Sample ID		Florida SWCTL[a]	NTCOU2SW3506-D	NTCOU2SW3507	NTCOU2SW3507-D	NTCOU2SW3508	NTCOU2SW3508-D
Sample Date			9/17/02	12/18/02	12/18/02	3/26/03	3/26/03
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105		3.9 J	1.4 J		
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*					
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]		0.73 J	0.73 J		
Inorganics (µg/L)							
Iron	7439-89-6	1000	286			642 J	5320 J
Manganese	7439-96-5	*	2.1	1.9	1.9	7.5 J	65 J
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	9.5	8.9	8.7		
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

TABLE 6

HISTORICAL DETECTIONS IN SURFACE WATER
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW36				
Sample ID		Florida SWCTL[a]	NTCOU2SW3604	NTCOU2SW3605	NTCOU2SW3606	NTCOU2SW3607	NTCOU2SW3608
Sample Date			3/27/02	6/26/02	9/17/02	12/18/02	3/25/03
Volatiles (µg/L)							
Acetone	67-64-1	1,692					
Benzene	71-43-2	71.28[b]					
Carbon Disulfide	75-15-0	105				2.3	
Chloroform	67-66-3	470.8[b]					
Chloromethane	74-87-3	470.8[b]					
cis-1,2-Dichloroethene	156-59-2	*	0.4 J				
Tetrachloroethene	127-18-4	8.85					
Toluene	108-88-3	475					
Trichloroethene	79-01-6	80.7[b]					
Inorganics (µg/L)							
Iron	7439-89-6	1000	1520	706	392		5650
Manganese	7439-96-5	*	9.4	2.2	3.5	2.7	9.9
Water Chemistry (mg/L)							
Alkalinity		*	NA	NA	NA	NA	NA
Chloride	16887-00-6	*	41	20 J	10	15	
Hardness as $CaCO_3$		*	NA	NA	NA	NA	NA
Total Alkalinity		*	NA	NA	NA	NA	NA
Total Dissolved Solids		*	NA	NA	NA	NA	NA
Total Suspended Solids		*	NA	NA	NA	NA	NA
Total Organic Carbon		*	NA	NA	NA	NA	NA

Notes:

[a] Surface Water Cleanup Target Level [Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].

[b] Annual average.

* Indicates that the screening value is not available.

Empty cells indicate non detects.

"J" qualifier indicates an estimated value.

NA - no analysis performed.

Only chemicals detected in at least one sample are shown.

Values in shaded cells are equal to or exceed the screening criteria.

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-01B	OLD-OU2-02A	OLD-OU2-02B	OLD-OU2-03A		OLD-OU2-03B	OLD-OU2-05A	OLD-OU2-05B	OLD-OU2-06A	OLD-OU2-07B
Sample ID		Florida	NTC	NTCOU2G01B08	NTCOU2G02A08	NTCOU2G02B08	NTCOU2G03A08	NTCOU2G03A08-D	NTCOU2G03B08	NTCOU2G05A08	NTCOU2G05B08	NTCOU2G06A08	NTCOU2G07B08
Sample Date		GCTL[b]	BGSV[c]	3/25/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/25/2003
Volatiles (µg/L)													
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	700		5 U	5 U	5 U	11.7 U	15.2 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3.9	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	40		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)													
Iron	7439-89-6	300	1227	1750	25200	7670	11300	11800	7700	2490	942	3190 *	911
Manganese	7439-96-5	50	17	8.6	198	14.8	128	136	20.7	0.16 U	3.1	1.2	1.5
Water Chemistry (mg/L)													
Alkalinity		*			313	16	70.5	77	81				
Chloride	16887-00-6	250,000			24	54.2	20 U	20 U	49.6				
Dissolved Organic Carbon		*											
Nitrate	14797-55-8	10,000			0.1 U	0.1 U	0.13	0.11	0.1 U				
Nitrite	14797-65-0	*			0.1 U	0.1 U	0.1 U	0.1 U	0.1 U				
Orthophosphate		*			0.26	1.5	0.1 U	0.1 U	0.1 U				
Sulfate	14808-79-8	250,000			20 U	24.4	20 U	20 U	20 U				
Dissolved Gases (mg/L)													
Carbon Dioxide	124-38-9	*			230.6	151.2	126.9		184.2				
Hydrogen (nm/L)	1333-74-0	*			1.9 J	1.4 J	2.2 J		1 J				
Nitrogen	7727-37-9	*			3.2	6.6	6.9		5.7				
Oxygen	7782-44-7	*			0.15 U	0.15 U	0.15 U		0.15 U				
Volatile Gases (µg/L)													
Ethane	74-84-0	*			0.18	0.01 U	0.15		0.03				
Ethene	74-85-1	*			0.01 U	0.01 U	0.01 U		0.01 U				
Methane	74-82-8	*			3868.8	97.6	3729.6		881.2				

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-08A	OLD-OU2-08B	OLD-OU2-09A	OLD-OU2-09B	OLD-OU2-11A	OLD-OU2-12A	OLD-OU2-12B	OLD-OU2-13A	OLD-OU2-13B	OLD-OU2-14A
Sample ID		Florida	NTC	NTCOU2G08A08	NTCOU2G08B08	NTCOU2G09A08	NTCOU2G09B08	NTCOU2G11A08	NTCOU2G12A08	NTCOU2G12B08	NTCOU2G13A08	NTCOU2G13B08	NTCOU2G14A08
Sample Date		GCTL[b]	BGSV[c]	3/25/2003	3/25/2003	3/26/2003	3/26/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003
Volatiles (µg/L)													
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	700		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	40		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)													
Iron	7439-89-6	300	1227	991	243	382	484	129 U	323	1020	39.4 U	1400	214
Manganese	7439-96-5	50	17	1.5	3.1	0.16 U	5.9	3.8	0.16 U	8.4	0.16 U	8.5	0.16 U
Water Chemistry (mg/L)													
Alkalinity		*											
Chloride	16887-00-6	250,000											
Dissolved Organic Carbon		*											
Nitrate	14797-55-8	10,000											
Nitrite	14797-65-0	*											
Orthophosphate		*											
Sulfate	14808-79-8	250,000											
Dissolved Gases (mg/L)													
Carbon Dioxide	124-38-9	*											
Hydrogen (nm/L)	1333-74-0	*											
Nitrogen	7727-37-9	*											
Oxygen	7782-44-7	*											
Volatile Gases (µg/L)													
Ethane	74-84-0	*											
Ethene	74-85-1	*											
Methane	74-82-8	*											

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-14B	OLD-OU2-17A	OLD-OU2-17B	OLD-OU2-18A	OLD-OU2-18B		OLD-OU2-20A	OLD-OU2-20B	OLD-OU2-21A	OLD-OU2-21B
Sample ID		Florida	NTC	NTCOU2G14B08	NTCOU2G17A08	NTCOU2G17B08	NTCOU2G18A08	NTCOU2G18B08	NTCOU2G18B08-D	NTCOU2G20A08	NTCOU2G20B08	NTCOU2G21A08	NTCOU2G21B08
Sample Date		GCTL[b]	BGSV[c]	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003
Volatiles (µg/L)													
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	1.2	1.2	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	1.6	1.6	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	700		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	0.5 U	0.5 U	0.5 U	135	163	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	0.5 U	0.5 U	80.1	74	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	40		0.5 U	0.5 U	0.5 U	0.5 U	2	1.9	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	2850	3550	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	1		0.5 U	0.5 U	0.5 U	0.5 U	42	37.1	0.5 U	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)													
Iron	7439-89-6	300	1227	2250	71.4 U	1430	32.3 U	1020	915	276	379	349	1120
Manganese	7439-96-5	50	17	5.2	0.16 U	9.1	0.16 U	12	10.4	0.16 U	1	0.16 U	6.8
Water Chemistry (mg/L)													
Alkalinity		*						33.5 J	17 J		28.5		25.5
Chloride	16887-00-6	250,000						20 U	20 U	20 U	20 U	20 U	20 U
Dissolved Organic Carbon		*								4.9	5.2	2.6	11.5
Nitrate	14797-55-8	10,000						0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nitrite	14797-65-0	*						0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Orthophosphate		*						1.4	1.2	0.1 U	1.9	0.1 U	2.1
Sulfate	14808-79-8	250,000						20 U	20 U	20	20 U	20 U	20 U
Dissolved Gases (mg/L)													
Carbon Dioxide	124-38-9	*						177.6				59.1	108.2
Hydrogen (nm/L)	1333-74-0	*						2.3 J				1.5 J	50 J
Nitrogen	7727-37-9	*						4.7				8.1	5.9
Oxygen	7782-44-7	*						0.15 U				0.5	0.15 U
Volatile Gases (µg/L)													
Ethane	74-84-0	*						0.43				0.01 U	0.09
Ethene	74-85-1	*						5.11				0.01 U	0.03
Methane	74-82-8	*						795.7				0.02 U	1637.8

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-22A	OLD-OU2-22B		OLD-OU2-27A	OLD-OU2-27B	OLD-OU2-28A	OLD-OU2-28B	OLD-OU2-29A	OLD-OU2-29B	OLD-OU2-30A
Sample ID		Florida	NTC	NTCOU2G22A08	NTCOU2G22B08	NTCOU2G22B08-D	NTCOU2G27A08	NTCOU2G27B08	NTCOU2G28A08	NTCOU2G28B08	NTCOU2G29A08	NTCOU2G29B08	NTCOU2G30A08
Sample Date		GCTL[b]	BGSV[c]	3/26/2003	3/26/2003	3/26/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/26/2003	3/26/2003	3/25/2003
Volatiles (µg/L)													
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	700		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	9.4 U	5 U
Benzene	71-43-2	1		0.5 U	0.5 U	0.5 U	17.9	0.5 U	0.5 U	3.8	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	1 U	1.5 J	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	100		0.5 U	0.5 U	0.5 U	36	6.5	0.5 U	7.6	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	0.5 U	0.5 U	2.1	0.53 J	0.5 U	2.6	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	40		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	1		0.5 U	0.5 U	0.5 U	1.8	2.8	0.5 U	7.4	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)													
Iron	7439-89-6	300	1227	5660	1110	1270	2140	22500	1880	4660	5870	3420	30900
Manganese	7439-96-5	50	17	6.4	4	5.4	8.6	431	9	14.9	5.8	4.9	64.2
Water Chemistry (mg/L)													
Alkalinity		*		9	16.5	17	7	67			25.5	27	23.5
Chloride	16887-00-6	250,000		20 U	22.1	22.1	33.7	20 U			55.6	20 U	85.8
Dissolved Organic Carbon		*		20.7	3.8	4							
Nitrate	14797-55-8	10,000		0.1 U	0.1 U	0.18	0.1 U	0.1 U			0.1 U	0.1 U	0.1 U
Nitrite	14797-65-0	*		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U			0.1 U	0.1 U	0.1 U
Orthophosphate		*		0.17	2.1	2	0.11	0.1 U			0.1	1.6	0.1
Sulfate	14808-79-8	250,000		20 U	20 U	20 U	32.8	40.6			55.9	20 U	33.6
Dissolved Gases (mg/L)													
Carbon Dioxide	124-38-9	*		78.3	123.2		309.3	395.6			165.7	91.8	228.3
Hydrogen (nm/L)	1333-74-0	*		2 J	1.7 J		1.5 J	1.8 J			1.3 J	1.4 J	1 J
Nitrogen	7727-37-9	*		5.3	12.3		12.5	7.6			9.7	8.6	6
Oxygen	7782-44-7	*		0.15 U	0.44		1.8 U	0.2			0.52	0.63	0.15 U
Volatile Gases (µg/L)													
Ethane	74-84-0	*		0.01	0.25		0.03	0.09			0.01 U	0.01 U	0.07
Ethene	74-85-1	*		0.01 U	0.03		0.05	0.38			0.03	0.01 U	0.22
Methane	74-82-8	*		115.5	200.2		156.2	1923.4			161.1	2.2	2267.6

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-30B	OLD-OU2-31A	OLD-OU2-31B	OLD-OU2-32A	OLD-OU2-32B	OLD-OU2-33A	OLD-OU2-33B		OLD-OU2-34A	OLD-OU2-35B
Sample ID		Florida	NTC	NTCOU2G30B08	NTCOU2G31A08	NTCOU2G31B08	NTCOU2G32A08	NTCOU2G32B08	NTCOU2G33A08	NTCOU2G33B08	NTCOU2G33B08-D	NTCOU2G34A08	NTCOU2G35B08
Sample Date		GCTL[b]	BGSV[c]	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/25/2003	3/26/2003
Volatiles (µg/L)													
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	700		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	1		1.5	0.5 U	2.3	0.5 U	0.5 U	0.5 U	3	2.6	0.5 U	0.5 U
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	100		2	0.5 U	11.2	0.5 U	0.5 U	0.5 U	1.8	1.7	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	0.5 U	1.4	0.5 U	0.5 U	0.5 U	6.5	6.1	0.5 U	0.5 U
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	40		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	7.6	0.5 U	76.3	67.4	0.5 U	0.5 U
Vinyl Chloride	75-01-4	1		0.5 U	0.5 U	3.8	0.5 U	0.5 U	0.5 U	5.8	5.6	0.5 U	0.5 U
Inorganics (µg/L)													
Iron	7439-89-6	300	1227	27200	88.2 U	1590	197 U	1250	500	1870	1780	6460	1950
Manganese	7439-96-5	50	17	105	8.5	3.7	0.16 U	7.9	7.2	7.5	6.4	8.1	5.2
Water Chemistry (mg/L)													
Alkalinity		*		236	5			15	9				
Chloride	16887-00-6	250,000		93.1	20 U	20.1	20 U	20 U	20 U	20 U	20 U		
Dissolved Organic Carbon		*											
Nitrate	14797-55-8	10,000		0.1 U	0.1 U	0.14	0.1	0.1 U	1.7	0.1 U	0.1 U		
Nitrite	14797-65-0	*		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
Orthophosphate		*		0.38	0.1 U	1.4	0.11	2.3	0.1 U	0.54	0.57		
Sulfate	14808-79-8	250,000		20 U	20 U	23.3	20 U	20 U	20 U	20 U	20 U		
Dissolved Gases (mg/L)													
Carbon Dioxide	124-38-9	*		230.3	22.3	195.1	32	92.6	85.2	287.9			
Hydrogen (nm/L)	1333-74-0	*		1.8 J	2 J	2.1 J	1.8 J	2.4 J	1.8 J	1.6 J			
Nitrogen	7727-37-9	*		3	11	3.8	7	5.3	9.6	7.3			
Oxygen	7782-44-7	*		0.15 U	0.96	0.15 U	2.71	0.15 U	1.29	0.15 U			
Volatile Gases (µg/L)													
Ethane	74-84-0	*		0.23	0.01 U	0.07	0.01 U	0.01	0.01 U	0.28			
Ethene	74-85-1	*		0.1	0.01 U	0.37	0.01 U	0.05	0.01 U	0.49			
Methane	74-82-8	*		4188.5	4.6	180.6	0.4	334.4	1.5	1091.1			

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria[a]		OLD-OU2-36A	OLD-OU2-37B	OLD-OU2-DP01A	OLD-OU2-DP01B	OLD-OU2-DP02A	OLD-OU2-DP02B	
Sample ID		Florida	NTC	NTCOU2G36A08	NTCOU2G37B08	NTCOU2GP1A08	NTCOU2GP1B08	NTCOU2GP2A08	NTCOU2GP2B08	NTCOU2GP2B08-D
Sample Date		GCTL[b]	BGSV[c]	3/25/2003	3/25/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003	3/26/2003
Volatiles (µg/L)										
1,1,1-Trichloroethane	71-55-6	200		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
1,1,2-Trichloroethane	79-00-5	5		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
1,1-Dichloroethane	75-34-3	70		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
1,1-Dichloroethene	75-35-4	7		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.64 J
1,2-Dichloroethane	107-06-2	3		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
1,2-Dichloropropane	78-87-5	5		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
2-Butanone	78-93-3	4200		2.5 U	2.5 U	2.5 U	2.5 U	25 U	50 U	2.5 U
2-Hexanone	591-78-6	280		2.5 U	2.5 U	2.5 U	2.5 U	25 U	50 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	560		2.5 U	2.5 U	2.5 U	2.5 U	25 U	50 U	2.5 U
Acetone	67-64-1	700		5 U	5.8	20.4 U	5 U	50 U	100 U	5 U
Benzene	71-43-2	1		0.5 U	10.9	0.5 U	0.5 U	5 U	10 U	0.61 J
Bromodichloromethane	75-27-4	0.6		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Bromoform	75-25-2	4.4		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Bromomethane	74-83-9	9.8		1 U	1 U	1 U	1 U	10 U	20 U	1 U
Carbon Disulfide	75-15-0	700		1 U	1 U	1 U	1 U	10 U	20 U	1 U
Carbon Tetrachloride	56-23-5	3		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Chlorobenzene	108-90-7	100		0.5 U	16.6	0.5 U	0.5 U	5 U	10 U	0.5 U
Chlorodibromomethane	124-48-1	0.4		0.4 U	0.4 U	0.4 U	0.4 U	4 U	8 U	0.4 U
Chloroethane	75-00-3	1.2		1 U	1 U	1 U	1 U	10 U	20 U	1 U
Chloroform	67-66-3	5.7		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Chloromethane	74-87-3	2.7		1 U	1 U	1 U	1 U	10 U	20 U	1 U
cis-1,2-Dichloroethene	156-59-2	70		0.5 U	6.4	0.5 U	0.5 U	89.8	60.4	74.2
cis-1,3-Dichloropropene[d]	10061-01-5	0.2		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Ethylbenzene	100-41-4	30		0.7 U	0.7 U	0.7 U	0.7 U	7 U	14 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	50		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Methylene Chloride	75-09-2	5		1 U	1 U	1 U	1 U	10 U	20 U	1 U
Styrene	100-42-5	100		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Tetrachloroethene	127-18-4	3		0.5 U	0.5 U	0.5 U	0.5 U	23.5	30.3	36.9
Toluene	108-88-3	40		0.5 U	0.61 J	0.5 U	0.5 U	5 U	10 U	2.3
Total Xylenes	1330-20-7	20		1 U	3.7	1 U	1 U	10 U	20 U	1 U
Trans-1,2-Dichloroethene	156-60-5	100		0.5 U	1.1	0.5 U	0.5 U	5 U	10 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.2		0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U
Trichloroethene	79-01-6	3		0.5 U	0.5 U	0.5 U	0.5 U	790	1270	1180
Vinyl Chloride	75-01-4	1		0.5 U	6.6	0.5 U	0.5 U	10.9	16 J	17.4
Inorganics (µg/L)										
Iron	7439-89-6	300	1227	3040	3440	1990	1300	1610	717	788
Manganese	7439-96-5	50	17	3.2	8.1	12.2	7.6	1.3	2.7	3.5
Water Chemistry (mg/L)										
Alkalinity		*						7	20	20
Chloride	16887-00-6	250,000						20 U	20 U	20 U
Dissolved Organic Carbon		*								
Nitrate	14797-55-8	10,000						0.1 U	0.1 U	0.1 U
Nitrite	14797-65-0	*						0.1 U	0.1 U	0.1 U
Orthophosphate		*						0.1 U	1.8	1.4
Sulfate	14808-79-8	250,000						20 U	20 U	20 U
Dissolved Gases (mg/L)										
Carbon Dioxide	124-38-9	*						127.9	203.1	
Hydrogen (nm/L)	1333-74-0	*						1.6 J	2.7 J	
Nitrogen	7727-37-9	*						17.9	9.1	
Oxygen	7782-44-7	*						3.1	0.22	
Volatile Gases (µg/L)										
Ethane	74-84-0	*						0.13	1.03	
Ethene	74-85-1	*						0.93	6.11	
Methane	74-82-8	*						646.8	1235.1	

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Footnotes:

[a] For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV. Analytes with no GCTL are not considered to have exceedances.

[b] Groundwater Cleanup Target Level [Development of Soil Cleanup target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].

[c] Background Screening Value Level (Background Sampling Report for NTC, Orlando, Florida; ABB Environment Services, August 1995) for inorganics only.

[d] GCTL for 1,3-dichloropropene (CAS No. 542-75-6) used.

* Indicates the GCTL is not available.

Empty cells indicate parameter not analyzed.

"J" qualifier indicates an estimated value.

"U" qualifier indicates a non-detect.

Values in shaded cells meet or exceed the screening criteria.

TABLE 8

VALIDATED SURFACE WATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW29	OLD-OU2-SW30	OLD-OU2-SW31	OLD-OU2-SW32	OLD-OU2-SW33	OLD-OU2-SW34
Sample ID		Florida	NTCOU2SW2908	NTCOU2SW3008	NTCOU2SW3108	NTCOU2SW3208	NTCOU2SW3308	NTCOU2SW3408
Sample Date		SWCTL[a]	3/25/03	3/25/03	3/25/03	3/26/03	3/26/03	3/26/03
Volatiles (µg/L)								
1,1,1-Trichloroethane	71-55-6	270	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	10.8[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	28.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	3.2[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	2,600	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	120,000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	*	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	23,000	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	1,692	11.1	5 U	5 U	5 U	5 U	5 U
Benzene	71-43-2	71.28[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	22[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	360[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	35	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	105	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	4.42[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	34[b]	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	*	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	470.8[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	470.8[b]	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	10061-01-5	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	605	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	33,600	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	1580[b]	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	455	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	8.85[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	475	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	370	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	11,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	80.7[b]	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)								
Iron	7439-89-6	1000	118000	8740	662	720	2240	245
Manganese	7439-96-5	*	226	34.8	11.1	14.5	32.6	1.5
Water Chemistry (mg/L)								
Chloride	16887-00-6	*	20 U	20 U	20 U	20 U	20 U	20 U

TABLE 8

VALIDATED SURFACE WATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	CAS NUMBER	Screening Criteria	OLD-OU2-SW35		OLD-OU2-SW36
Sample ID		Florida	NTCOU2SW3508	NTCOU2SW3508-D	NTCOU2SW3608
Sample Date		SWCTL[a]	3/26/03	3/26/03	3/25/03
Volatiles (µg/L)					
1,1,1-Trichloroethane	71-55-6	270	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	10.8[b]	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	79-00-5	28.5	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	75-34-3	*	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	75-35-4	3.2[b]	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	107-06-2	5	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	2,600	0.5 U	0.5 U	0.5 U
2-Butanone	78-93-3	120,000	2.5 U	2.5 U	2.5 U
2-Hexanone	591-78-6	*	2.5 U	2.5 U	2.5 U
4-Methyl-2-Pentanone	108-10-1	23,000	2.5 U	2.5 U	2.5 U
Acetone	67-64-1	1,692	5 U	5 U	5 U
Benzene	71-43-2	71.28[b]	0.5 U	0.5 U	0.5 U
Bromodichloromethane	75-27-4	22[b]	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	360[b]	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	35	1 U	1 U	1 U
Carbon Disulfide	75-15-0	105	1 U	1 U	1 U
Carbon Tetrachloride	56-23-5	4.42[b]	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	17	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	124-48-1	34[b]	0.4 U	0.4 U	0.4 U
Chloroethane	75-00-3	*	1 U	1 U	1 U
Chloroform	67-66-3	470.8[b]	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	470.8[b]	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	*	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	10061-01-5	12	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	605	0.7 U	0.7 U	0.7 U
Methyl *tert*-Butyl Ether	1634-04-4	33,600	0.5 U	0.5 U	0.5 U
Methylene Chloride	75-09-2	1580[b]	1 U	1 U	1 U
Styrene	100-42-5	455	0.5 U	0.5 U	0.5 U
Tetrachloroethene	127-18-4	8.85[b]	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	475	0.5 U	0.5 U	0.5 U
Total Xylenes	1330-20-7	370	1 U	1 U	1 U
Trans-1,2-Dichloroethene	156-60-5	11,000	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	10061-02-6	12	0.5 U	0.5 U	0.5 U
Trichloroethene	79-01-6	80.7[b]	0.5 U	0.5 U	0.5 U
Vinyl Chloride	75-01-4	*	0.5 U	0.5 U	0.5 U
Inorganics (µg/L)					
Iron	7439-89-6	1000	642 J	5320 J	5650
Manganese	7439-96-5	*	7.5 J	65 J	9.9
Water Chemistry (mg/L)					
Chloride	16887-00-6	*	20 U	20 U	20 U

TABLE 8

VALIDATED SURFACE WATER ANALYTICAL RESULTS - MARCH 2003
OPERABLE UNIT 2

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

[a] Surface Water Cleanup Target Level [Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999].
[b] Annual average.
* Indicates that the screening value is not available.
"J" qualifier indicates an estimated value.
"U" qualifier indicates non-detect.
Values in shaded cells are equal to or exceed the screening criteria.

APPENDIX A

GROUNDWATER SAMPLE LOG SHEETS

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By:
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042G02A08
Sample Location: OLD-042-2A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 3-26-3	Color	ORP (Eh)	S.C.	Temp.	Turbidity	DO	Sal.	pH
Time: 0820	(Visual)	(+/- mv)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	(SU)
Method: Low Flow	clear	-93	.668	21.08	2.71	0.58	/	6.05

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: ~~.12~~ mg/L .8

Notes:

Alkalinity:

Analysis Time:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
194	x 0.2	= 38.8 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:
Project No.:
Sampled By:
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.:
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 610nm 93

Concentration: 0.0 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 5.0 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: .1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By:
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC0026021308
Sample Location: OL1-OU2-21B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 0830								
Method: Low Flow	Clear	76	.351	21.53	5.2	0.70	/	5.21

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: .4 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
236	x 0.2	= 47.2 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: _____ mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 4.2 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 1.2 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CL
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042603A08
Sample Location: OLD-042-03A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 3-26-3	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Time: 1235								
Method: Low Flow	Clear	-19	.213	21.77	25	1.28	/	6.12

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen: ☒ Excessive Turbidity

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01 =	mg/L
_____	x 0.02 =	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide: ☒ Excessive Turbidity

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1 =	mg/L
_____	x 0.2 =	mg/L
_____	x 1.0 =	mg/L
_____	x 2.0 =	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}): Excessive Turbidity

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: _____

Program/Module: 610nm 93 Other: _____

Concentration: _____ mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}): ☆ Excessive Turbidity

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: _____

Program/Module: 500nm 33

Concentration: _____ mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CG
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2G03B08
Sample Location: OLD-OU2-03B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 1240								
Method: Low Flow	Clear	51	.384	22.10	45.3	0.51	—	5.65

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 0.4 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
210	x 0.2	= 42.0 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .10 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 3 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JZ
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC0026181308
Sample Location: OCD-062-1813
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 1730								
Method: Low Flow	Clear	-141	.096	23.29	8.36	0.20	—	5.57

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 / 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
_____	x 0.01	= mg/L
_____	x 0.02	= mg/L

CHEMetrics: 1.5 mg/L

Notes:

Alkalinity:

Analysis Time: _____

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
_____	x 0.1	= mg/L
288	x 0.2	= 57.6 mg/L
_____	x 1.0	= mg/L
_____	x 2.0	= mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .70 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.0 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 1.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JF
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2621A08
Sample Location: OLD-OU2-21A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 1625								
Method: Low Flow	Clear	86	.045	22.45	0	3.87	—	4.28

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 18 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
185	x 0.2	= 370 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 0.1 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:
Project No.:
Sampled By:
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.:
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 3.2 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JJ
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2G21B08
Sample Location: ~~NTC~~ OLD-OU2-21B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 1630								
Method: Low Flow	clear	-42	1.32	22.70	5.6	0.53	—	5.45

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: .8 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
220	x 0.2	= 440 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 0.2 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Page __ of __

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 4.2 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By:
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2622A08
Sample Location: OLD-OU2-22A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3.26.3								
Time: 0950								
Method: Low Flow	Clear	28	.125	22.6	999+	0.99	—	5.12

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide: Excessive Turbidity

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}): A Excessive Turbidity

Equipment: DR-700 DR-8 __ HS-C Color Chart / HS-WR Color Wheel Analysis Time: _____

Program/Module: 610nm 93 Other: _____

Concentration: _____ mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}): Excessive Turbidity

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: _____

Program/Module: 500nm 33

Concentration: _____ mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 1.1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By:
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042G22B08
Sample Location: OLD-042-22B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 0900								
Method: Low Flow	Clear	-155	.152	21.68	5.62	3.77	—	5.10

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 0 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
211	x 0.2	= 42.2 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .65 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.1 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: .9 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: SM
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC0426270A08
Sample Location: OLD-042-27A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3/25/3								
Time: 0805								
Method: Low Flow	Clear	24	.359	22.2	5.9	0.71	—	5.69

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 / 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 1 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
181	x 0.2	= 36.2 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .2 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 5.2 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: / mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: SM
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC0U2627B08
Sample Location: OLD-OU2-27B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3/25/3								
Time: 0835								
Method: Low Flow	clear	-7	.269	22.6	13.9	0.36	—	5.55

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 / 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01 =	mg/L
	x 0.02 =	mg/L

CHEMetrics: 1 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1 =	mg/L
213	x 0.2 =	42.6 mg/L
	x 1.0 =	mg/L
	x 2.0 =	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 1.0 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 2.0 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 5.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CG
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2G29A08
Sample Location: OLD-OU2-29A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 14.55								
Method: Low Flow	Clear	-19	.916	22.20	13.2	0.52	✓	5.19

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: 0.4 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
252	x 0.2	=	50.4 mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .70 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:
Project No.:
Sampled By:
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.:
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 3.8 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: .6 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CL
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC002G291308
Sample Location: OLD-002-2913
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 1455								
Method: Low Flow	clear	-56	.125	25.49	10	0.86	—	5.7

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
	x 0.01	=	mg/L
	x 0.02	=	mg/L

CHEMetrics: 0.9 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
	x 0.1	=	mg/L
185	x 0.2	=	37.0 mg/L
	x 1.0	=	mg/L
	x 2.0	=	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 610nm 93

Concentration: .70 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 3.0 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 2.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CG
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042G30A08
Sample Location: OLD-042-30A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 1718								
Method: Low Flow	clear	87	.980	22.69	468	0.59	/	5.07

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen: ~~X~~ Excessive Turbidity

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Analysis Time: _____

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide: ~~X~~ Excessive Turbidity

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☐	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
_____	x 0.2	=	mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}): Excessive Turbidity

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: _____

Program/Module: 610nm 93 Other: _____

Concentration: _____ mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N): Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N): Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Excessive Turbidity

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: _____

Program/Module: 500nm 33

Concentration: _____ mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CL
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2630308
Sample Location: OLD-OU2-30B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 1640								
Method: Low Flow	clear	-95	1.05	23.49	2.8	0.40	—	6.20

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 4.0 mg/L

Notes:

Alkalinity:

Analysis Time: _____

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
280	x 0.2	= 46.0 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 1 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 6.4 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: .1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: CL
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC02G31A08
Sample Location: OLD-002-31A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 1045								
Method: Low Flow	Clear	181	.042	22.71	21.9	0.53	—	5.35

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
	x 0.01	=	mg/L
	x 0.02	=	mg/L

CHEMetrics: 0.6 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
	x 0.1	=	mg/L
197	x 0.2	=	39.4 mg/L
	x 1.0	=	mg/L
	x 2.0	=	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 0.2 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 0.0 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: ~~JB~~ CC
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC0U2G31B08
Sample Location: OLD-042-31B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 0920								
Method: Low Flow	Clear	-39	.172	22.10	6.61	0.63	—	4.79

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: _____mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier		Concentration
_____	x 0.01	=	mg/L
_____	x 0.02	=	mg/L

CHEMetrics: _____mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier		Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	_____ & _____	x 0.1	=	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	_____ & _____	x 0.4	=	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	_____ & _____	x 1.0	=	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	_____ & _____	x 2.0	=	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	_____ & _____	x 5.0	=	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	_____ & _____	x 10.0	=	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count			Concentration
_____	x 0.1	=	mg/L
213	x 0.2	=	42.6 mg/L
_____	x 1.0	=	mg/L
_____	x 2.0	=	mg/L

CHEMetrics: _____mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 1.1 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.6 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JP
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042632A08
Sample Location: OLD-042-32A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time:								
Method: Low Flow	Tea	260	0.022	22.0	50	6.68		4.87

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: ~~0-4~~ 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 5.5 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
182	x 0.2	= 36.4 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 0 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.5 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: .1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Tetra Tech NUS, Inc.

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JF
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042G32108
Sample Location: OLD-042-3213
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 1150								
Method: Low Flow	Clear	-145	.060	23.02	2.54	4.72	—	5.25

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0.1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 1 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
217	x 0.2	= 43.4 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: ~75 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.1 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 1.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☐

Correct measurement units are cited in the SAMPLING DATA block: ☐

Mulitplication is correct for each *Multiplier* table: ☐

Final calulated concentration is within the appropriate *Range Used* block: ☐

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☐

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☐

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JJ
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2G33A08
Sample Location: OLD-OU2-33A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 3.25.3	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Time:								
Method: Low Flow	Clear	181	0.078	22.1	2.9	1.43		5.28

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: ~~0-10~~ 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01 =	mg/L
	x 0.02 =	mg/L

CHEMetrics: 1.5 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1 =	mg/L
190	x 0.2 =	38.0 mg/L
	x 1.0 =	mg/L
	x 2.0 =	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart (HS-WR Color Wheel) Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 0.0 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 0.0 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 0.1 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JF
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTCOU2G33B08
Sample Location: OLD-OU2-33B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-25-3								
Time: 0900								
Method: Low Flow	clear	+158	.118	22.40	3.52	5.64	—	4.96

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 0-1 or 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01 =	mg/L
	x 0.02 =	mg/L

CHEMetrics: 1 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1 =	mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4 =	mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0 =	mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0 =	mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0 =	mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0 =	mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1 =	mg/L
284	x 0.2 =	56.8 mg/L
	x 1.0 =	mg/L
	x 2.0 =	mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart (HS-WR Color Wheel) Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 1.85 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:
Project No.:
Sampled By:
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.:
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.4 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 5.0+ mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: BC
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042GDP02A08
Sample Location: OLD-042-DP02A
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

	Color (Visual)	ORP (Eh) (+/- mv)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (Meter, mg/l)	Sal. (%)	pH (SU)
Date: 3-26-3								
Time: 1630								
Method: Low Flow	Clear	-247	.102	23.89	1.40	Ø	—	5.10

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 4 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
410	x 0.2	= 82.0 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): _____

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: .95 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name:
Project No.:
Sampled By:
Field Analyst:
Field Form Checked as per QA/QC Checklist (initials):

Sample ID No.:
Sample Location:
Duplicate: ☐
Blank: ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L

Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____

Reagent Blank Correction ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.3 mg/L

Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 4.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: NTC Orlando
Project No.: 4207
Sampled By: JZ
Field Analyst: JB
Field Form Checked as per QA/QC Checklist (initials): JB

Sample ID No.: NTC042GDP02B08
Sample Location: OU1-042-DP02B
Duplicate: ☐
Blank: ☐

SAMPLING DATA:

Date: 3-26-3	Color	ORP (Eh)	S.C.	Temp.	Turbidity	DO	Sal.	pH
Time: 1600	(Visual)	(+/- mv)	(mS/cm)	(°C)	(NTU)	(Meter, mg/l)	(%)	(SU)
Method: Low Flow	clear	-82	.079	23.9	9.12	0.5	—	5.18

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Dissolved Oxygen:

Equipment: HACH Digital Titrator OX-DT CHEMetrics (Range: 1-12 mg/L) Analysis Time: 5 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	1-5 mg/L	200 ml	0.200 N	0.01
☐	2-10 mg/L	100 ml	0.200 N	0.02

Titration Count	Multiplier	Concentration
	x 0.01	= mg/L
	x 0.02	= mg/L

CHEMetrics: 12.0 mg/L

Notes:

Alkalinity:

Equipment: HACH Digital Titrator AL-DT CHEMetrics (Range: _____ mg/L) Analysis Time: _____ Filtered: ☐

Range Used:	Range	Sample Vol.	Cartridge	Multiplier	Titration Count	Multiplier	Concentration
☐	10-40 mg/L	100 ml	0.1600 N	0.1	&	x 0.1	= mg/L
☐	40-160 mg/L	25 ml	0.1600 N	0.4	&	x 0.4	= mg/L
☐	100-400 mg/L	100 ml	1.600 N	1.0	&	x 1.0	= mg/L
☐	200-800 mg/L	50 ml	1.600 N	2.0	&	x 2.0	= mg/L
☐	500-2000 mg/L	20 ml	1.600 N	5.0	&	x 5.0	= mg/L
☐	1000-4000 mg/L	10 ml	1.600 N	10.0	&	x 10.0	= mg/L

Parameter:	Hydroxide	Carbonate	Bicarbonate
Relationship:			

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Carbon Dioxide:

Equipment: HACH Digital Titrator CA-DT CHEMetrics (Range: _____ mg/L) Analysis Time: 10 min

Range Used:	Range	Sample Vol.	Cartridge	Multiplier
☐	10-50 mg/L	200 ml	0.3636 N	0.1
☑	20-100 mg/L	100 ml	0.3636 N	0.2
☐	100-400 mg/L	200 ml	3.636 N	1.0
☐	200-1000 mg/L	100 ml	3.636 N	2.0

Titration Count		Concentration
	x 0.1	= mg/L
199	x 0.2	= 39.6 mg/L
	x 1.0	= mg/L
	x 2.0	= mg/L

CHEMetrics: _____ mg/L

Notes:

Standard Additions: ☐ Titrant Molarity: _____ Digits Required: 1st.: _____ 2nd.: _____ 3rd.: _____

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Sulfide (S^{2-}):

Equipment: DR-700 DR-8 __ HS-C Color Chart HS-WR Color Wheel Analysis Time: 5 min

Program/Module: 610nm 93 Other: _____

Concentration: 80 mg/L Filtered: ☐

Notes:

Sulfate (SO_4^{2-}):

Equipment: DR-700 DR-8 __ Other: _____ Analysis Time: _____

Program/Module: 91

Concentration: _____ mg/L Filtered: ☐

Standard Solution: ☐ Results: _____

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Nitrite (NO_2^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 60

Concentration: _____ mg/L Reagent Blank Correction: ☐

Standard Solution: ☐ Results: ☐

Notes:

Nitrate (NO_3^--N):

Analysis Time: _____

Equipment: DR-700 DR-8 __ Other: _____ Filtered: ☐

Program/Module: 55

Concentration: _____ mg/L

Nitrite Interference Treatment: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Tetra Tech NUS, Inc.

FIELD ANALYTICAL LOG SHEET
GEOCHEMICAL PARAMETERS

Project Site Name: _____ Sample ID No.: _____

Project No.: _____ Sample Location: _____

Sampled By: _____ Duplicate: ☐

Field Analyst: _____ Blank: ☐

Field Form Checked as per QA/QC Checklist (initials): ☐

SAMPLE COLLECTION/ANALYSIS INFORMATION:

Manganese (Mn^{2+}):

Equipment: DR-700 DR-8 __ HACH MN-5 Other: _____ Analysis Time: _____

Program/Module: 525nm 41

Concentration: _____ mg/L Filtered: ☐

Digestion: ☐

Standard Solution: ☐ Results: _____ Reagent Blank Correction: ☐

Standard Additions: ☐ Digits Required: 0.1ml:_____ 0.2ml:_____ 0.3ml:_____

Notes:

Ferrous Iron (Fe^{2+}):

Equipment: DR-700 DR-8 __ IR-18C Color Wheel Other: _____ Analysis Time: 5 min

Program/Module: 500nm 33

Concentration: 1.1 mg/L Filtered: ☐

Notes:

Hydrogen Sulfide (H_2S):

Equipment: HS-C Other: _____ Analysis Time: 5 min

Concentration: 3.0 mg/L Exceeded 5.0 mg/L range on color chart: ☐

Notes:

QA/QC Checklist:

All data fields have been completed as necessary: ☑

Correct measurement units are cited in the SAMPLING DATA block: ☑

Mulitplication is correct for each *Multiplier* table: ☑

Final calulated concentration is within the appropriate *Range Used* block: ☑

Alkalinity *Relationship* is determined appropriatly as per manufacturer instructions: ☐

QA/QC sample (e.g., Std. Additions, etc.) frequency is appropriate as per the project planning documents: ☑

Nitrite Interference treatment used for Nitrate test if Nitrite was detected: ☐

Title block is initialized by person who performed the QA/QC Ckecklist: ☑

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. N4207/MG005A140

Sample Location: OLD-OU2-01B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G01B08

Sampled By: SRM

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1120	5.56	0.159	24.00	13.5	3.40	26	6.01	100
1	0.041 / 0.155	1124	5.59	0.158	24.30	7.0	0.94	1	6.01	100
2	0.163 / 0.617	1129	5.61	0.158	24.3	6.1	0.88	-3	6.01	100
4	0.653 / 2.47	1135	5.61	0.159	24.3	3.0	0.79	-7	6.03	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 29.45
Static Water Level: 5.94
Tube Intake Depth: 26.95
Well Volume: 14.5 L
Tubing/Cell Volume: 606 ml

Start Purge (hr): 1115
End Purge (hr): 1135
Total Purge Time (min): 20
Total Vol. Purged: 2.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1140	clear	5.61	0.159	24.3	3.0	0.79	-7	6.03	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 231 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: Orlando NTC
Project No.: _____

Sample Location: OLD-OU2-02A

[ ] Domestic Well Data

Flow-Thru Cell Make/Model: Horiba U-22

Sample ID No.: NTCOU2G02A08

[X] Monitoring Well Data

Sampled By: C Gleaton

Serial Nos.: _____

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0743	5.93	0.464	20.91	18.4	1.22	17	8.60	100
1	0.041 / 0.155	0748	6.03	0.580	20.96	5.62	0.62	-23	8.60	100
2	0.163 / 0.617	0753	6.04	0.586	20.99	3.81	0.60	-27	8.60	100
4	0.653 / 2.47	0758	6.05	0.600	21.02	2.83	0.59	-33	8.60	100
6	1.469 / 5.56	0803	6.05	0.663	21.06	2.78	0.58	-39	8.60	100
8	2.611 / 9.88	0808	6.05	0.668	21.08	2.71	0.58	-43	8.60	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0-C

Well Casing Diameter: 2 inch
Total Well Depth: 17.85
Static Water Level: 9.00
Tube Intake Depth: 4.35
Well Volume: 5.46 L
Tubing/Cell Volume: 494

Start Purge (hr): 0738
End Purge (hr): 0808
Total Purge Time (min): 30
Total Vol. Purged: 3 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 0820	Clear	6.05	0.668	21.08	2.71	0.58	-43	8.60	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe & Mn		HNO_3	1	500 ml		✓

ADDITIONAL INFORMATION

Comments:
Ions & AK 1 L

NA DO 0.80 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): C. Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/02

Project Site Name: OU2
Project No: N2817

Sample Location: OLD-OU2-02B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: Horiba U-2000

Serial Nos.: 928096
T0052009

Sample ID No.: NTCOU2G02B08

Sampled By: Lyon

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0800	5.09	0.360	20.74	4.7	2.15	103	7.68	100
1	0.041 / 0.155	0805	5.17	0.354	20.97	0.8	1.25	94	↓	↓
2	0.163 / 0.617	0810	5.20	0.351	21.27	7.0	0.82	82	↓	↓
4	0.653 / 2.47	0815	5.20	0.349	21.46	4.1	0.72	80	↓	↓
6	1.469 / 5.56	0820	5.21	0.351	21.50	6.1	0.76	80	↓	↓
8	2.611 / 9.88	0825	5.21	0.350	21.54	6.7	0.70	77	↓	↓
10	4.08 / 15.44	0830	5.21	0.351	21.53	5.2	0.70	76	↓	↓
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 32.6'
Static Water Level: 7.60'
Tube Intake Depth: 30'
Well Volume: 15.4 L
Tubing/Cell Volume: 500 mL

Start Purge (hr): 0800
End Purge (hr): 0830
Total Purge Time (min): 30
Total Vol. Purged: 3L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 0830	clear	5.21	0.351	21.53	5.2	0.70	76	7.68	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	~~1~~
~~TAL Metals~~ Fe, Mn	<6000/7000	HNO_3	0.5-liter	1	~~1-liter~~ HDPE	1
NA Ions, Alkalinity		none	1	1-liter	HDPE	1

ADDITIONAL INFORMATION

Comments: Chemet DO = 0.7 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[X] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Chesley R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name OU2
Project No N2817

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: Horiba U2000
Serial Nos. 928096
I0052009

Sample Location: OLD-OU2-03A
Sample ID No.: NTCOU203A08 G
Sampled By: Lyon
C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1130	6.12	0.198	21.83	40.3	6.24	-14	5.36	100
1	0.041 / 0.155	1135	6.13	0.199	21.64	16	4.17	-21	5.38	
2	0.163 / 0.617	1140	6.14	0.199	21.59	23	2.45	-21	5.40	
4	0.653 / 2.47	1145	6.14	0.198	21.58	24	3.99	-19	5.41	
6	1.469 / 5.56	1150	6.14	0.198	21.73	32	2.05	-18		
8	2.611 / 9.88	1155	6.14	0.201	21.68	34	1.82	-18		
10	4.08 / 15.44	1200	6.14	0.202	21.69	34	1.67	-17		
	[1 gal = 3.785 L]	1205	6.14	0.205	21.70	31	1.49	-18		
		1210	6.14	0.207	21.61	30	1.26	-17		
PID Reading (ppm): 0		1215	6.14	0.209	21.62	28	1.15	-18		
		1220	6.14	0.212	21.79	25	1.20	-18		
		1225	6.14	0.214	21.77	25	1.44	-20		
Well Casing Diameter: 2"		1230	6.14	0.214	21.77	25	1.27	-20		
Total Well Depth: 17.98		1235	6.14	0.213	21.77	25	1.28	-19		
Static Water Level: 5.23										
Tube Intake Depth: 15.5'										
Well Volume: ~8L										
Tubing/Cell Volume: 315mL										
Start Purge (hr): 1130										
End Purge (hr): ~~1150~~ 1235										
Total Purge Time (min): 65										
Total Vol. Purged: 6.5L										

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1235	clear	6.12	0.213	21.77	25	1.28	-19	5.41	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	½-liter	1	~~1-liter~~ HDPE	
NA Ions, Alkalinity		none		1	1-liter HDPE	

ADDITIONAL INFORMATION

Comments: Turb: flat - see Gary B's instructions - page 60, Logbook 19.
Chemet DO = 1.25

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[X] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.: NTCOU2GD100008

Signature(s): Christy R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Page 1 of 1

Project Site Name Orlando NTC
Project No _____

Sample Location: OLD-002-03B

[ ] Domestic Well Data

Flow-Thru Cell
Make/Model: Horiba U-22

Sample ID No.: NTC002G03B08

[X] Monitoring Well Data

Sampled By: C Gleston

Serial Nos.: _____

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1129	5.70	0.365	22.09	30.2	1.48	110	5.41	100
1	0.041	0.155	1134	5.68	0.364	22.05	31.3	1.02	113	5.41	100
2	0.163	0.617	1139	5.68	0.363	21.98	31.6	0.88	114	5.41	100
4	0.653	2.47	1144	5.68	0.362	22.03	32.1	0.81	110	5.41	100
6	1.469	5.56	1149	5.67	0.365	22.11	34.0	0.76	109	5.41	100
8	2.611	9.88	1154	5.66	0.363	22.08	42.3	0.69	86	5.41	100
10	4.08	15.44	1159	5.65	0.380	22.10	42.8	0.60	81	5.41	100
	[1 gal. = 3.785 L]		1204	5.65	0.381	22.11	46.1	0.57	70	5.41	100
			1209	5.66	0.382	22.09	46.3	0.55	62	5.41	100
PID Reading (ppm): 0.0			1214	5.65	0.387	22.09	45.8	0.53	60	5.41	100
			1219	5.66	0.389	22.10	44.9	0.51	55	5.41	100
			1224	5.65	0.389	22.10	45.3	0.51	51	5.41	100

Well Casing Diameter: 2 inch ~~2.0~~
Total Well Depth: 31.60
Static Water Level: 5.85
Tube Intake Depth: 29.10
Well Volume 16.22
Tubing/Cell Volume 6.06

Start Purge (hr): 1123
End Purge (hr): 1224
Total Purge Time (min): 61
Total Vol. Purged: 6.1 L

WATER QUALITY SAMPLE PARAMETERS

	Color · Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1240	Clear	5.65	0.389	22.10	45.3	0.51	51	5.41	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe & Mn		HNO_3	500 ml		HDPE	✓

ADDITIONAL INFORMATION

Comments: Ions & Alk

NA DO 0.4 mg/L

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: ——

Duplicate ID No.: ——

Signature(s): C. Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No. N4207/MG005A140

Sample Location: OLD-OU2-05A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G05A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0820	5.35	0.193	20.8	15.2	3.17	39	10.24	100
1	0.041 / 0.155	0825	5.20	0.195	20.9	12.9	1.67	18	10.24	100
2	0.163 / 0.617	0830	5.24	0.196	20.9	0.65	1.16	1	10.24	100
4	0.653 / 2.47	0835	5.27	0.197	20.9	0	1.06	-7	10.24	100
6	1.469 / 5.56	0840	5.30	0.199	20.9	0	1.02	-8	10.24	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 18.50
Static Water Level: 10.13
Tube Intake Depth: 14.31
Well Volume: 5.16 L
Tubing/Cell Volume: 529 ml

Start Purge (hr): 0815
End Purge (hr): 0840
Total Purge Time (min): 25
Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 0845	clear	5.30	0.199	20.9	0	1.02	-8	10.24	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 154 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-05B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G05B00

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0855	5.25	0.076	21.2	7.3	1.92	59	9.28	100
1	0.041 / 0.155	0858	5.28	0.076	21.2	4.2	1.24	50	928	100
2	0.163 / 0.617	0904	5.33	0.077	21.4	3.9	0.75	46	9.28	100
4	0.653 / 2.47	0910	5.31	0.078	21.5	3.9	0.70	48	9.30	100
6	1.469 / 5.56	0915	5.31	0.075	21.8	1.4	0.57	49	9.30	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 46.00
Static Water Level: 9.11
Tube Intake Depth: 43.5
Well Volume: 2276
Tubing/Cell Volume: 718 ml

Start Purge (hr): 0850
End Purge (hr): 0915
Total Purge Time (min): 25
Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 0920	clear	5.31	0.075	21.8	1.4	0.57	49	9.30	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 343 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: ✓

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No.: N4207/MG005A140

Sample Location: OLD-OU2-06A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G06A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0940	4.87	0.532	22.2	23.0	3.03	211	10.51	100
1	0.041 / 0.155	0945	4.86	0.531	22.5	19.0	1.38	207	10.51	100
2	0.163 / 0.617	0950	4.88	0.531	22.6	19.0	0.99	200	10.51	100
4	0.653 / 2.47	0953	4.92	0.526	22.6	19.0	0.78	177	10.51	100
6	1.469 / 5.56	0956	4.99	0.515	22.6	14.0	0.59	166	10.51	100
8	2.611 / 9.88	1000	4.94	0.514	22.6	11	0.49	153	10.51	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 18.5
Static Water Level: 10.34
Tube Intake Depth: 14.42
Well Volume: 5.03
Tubing/Cell Volume: 529

Start Purge (hr): 0935
End Purge (hr): 1000
Total Purge Time (min): 25
Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1005	Clear	4.94	0.514	22.6	11	0.49	153	10.51	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 154 ml
Flow Thru Cell = 375 ml
* Color / more Light yellow

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-07B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2607B08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1725	5.58	0.057	23.4	3.3	0.70	-91	6.01	100
1	0.041 / 0.155	1730	5.59	0.058	23.5	1.3	0.58	-107	6.01	100
2	0.163 / 0.617	1734	5.62	0.059	23.5	-1.3	0.46	-110	6.01	100
4	0.653 / 2.47	1740	5.64	0.062	23.5	0	0.32	-115	6.01	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 31.94
Static Water Level: 5.87
Tube Intake Depth: 29.44
Well Volume: 16.08
Tubing/Cell Volume: 620

Start Purge (hr): ~~1621~~ 1720
End Purge (hr): 1740
Total Purge Time (min): 20
Total Vol. Purged: 2.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1745	clear	5.64	0.062	23.5	0	0.32	-115	6.01	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 245 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGuire

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-8A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2608A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1430	5.64	0.228	24.2	90	8.35	-8	8.49	100
1	0.041 / 0.155	1435	5.62	0.174	24.1	160	2.84	-4	8.49	100
2	0.163 / 0.617	1440	5.61	0.170	24.1	300	2.46	-4	8.49	100
4	0.653 / 2.47	1450	5.38	0.102	24.3	370	2.24	47	8.49	100
6	1.469 / 5.56	1455	5.37	0.096	24.3	380	1.73	55	8.49	100
8	2.611 / 9.88	1500	5.35	0.093	24.4	350	1.48	58	8.49	100
10	4.08 / 15.44	1505	5.35	0.093	24.1	340	1.01	59	8.49	100
	[1 gal. = 3.785 L]	1510	5.51	0.116	24.2	240	0.95	24	8.49	100
		1515	5.51	0.127	25.4	220	0.94	17	8.49	100
PID Reading (ppm): 0		1520	5.52	0.131	25.3	232	0.93	14	8.49	100
		1525	5.52	0.131	25.2	230	0.90	14	8.49	100

Well Casing Diameter: 2"
Total Well Depth: 18.54
Static Water Level: 8.40
Tube Intake Depth: 13.54
Well Volume: 6.25 L
Tubing/Cell Volume: 529 ml

Start Purge (hr): 1425
End Purge (hr): 1525
Total Purge Time (min): 60
Total Vol. Purged: 6.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1530	Lt yellow	5.52	0.131	25.2	230	0.90	14	8.49	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1 liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 154 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McFarlane

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. N4207/MG005A140

Sample Location: OLD-OU2-08B

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2608B08

[X] Monitoring Well Data

Serial Nos.: 922001

Sampled By: SRM

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1540	4.93	0.104	24.60	6.40	4.24	193	8.30	100
1	0.041 / 0.155	1545	4.86	0.104	24.60	6.20	2.81	222	8.35	100
2	0.163 / 0.617	1548	4.83	0.104	24.64	2.10	2.67	229	8.35	100
4	0.653 / 2.47	1555	4.81	0.104	24.70	0.90	2.51	235	8.35	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 40.01
Static Water Level: 8.24
Tube Intake Depth: 37.51
Well Volume: 19.60
Tubing/Cell Volume: 6.76

Start Purge (hr): 1535
End Purge (hr): 1555
Total Purge Time (min): 20
Total Vol. Purged: 2.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1600	clear	4.81	0.104	24.70	0.90	2.51	235	8.35	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 301 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No.: N4207/MG005A140

Sample Location: OLD-OU2-09A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G09A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1055	4.25	0.000	26.2	90	7.05	125	6.93	100
1	0.041 / 0.155	1100	4.18	0.000	26.6	90	6.86	131	6.93	100
2	0.163 / 0.617	1105	4.12	0.000	27.4	100	6.69	143	6.93	100
4	0.653 / 2.47	1109	4.04	0.000	28.4	110	6.51	160	6.94	100
6	1.469 / 5.56	1112	4.01	0.000	28.8	110	6.01	169	6.94	100
8	2.611 / 9.88	1118	4.00	0.000	29.0	110	5.98	172	6.94	100
10	4.08 / 15.44	1125	3.96	0.000	29.0	110	5.93	174	6.94	100
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 17.45
Static Water Level: 6.88
Tube Intake Depth: 12.45
Well Volume: 6.52 L
Tubing/Cell Volume: 522 ml

Start Purge (hr): 1050
End Purge (hr): 1125
Total Purge Time (min): 35
Total Vol. Purged: 3.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1130	Yellow tan	3.96	0.000	29.0	110	5.93	174	6.94	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1 liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 147 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-09B

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2G09B08

[X] Monitoring Well Data

Serial Nos.: 922001

Sampled By: SRM

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1150	5.18	0.195	24.1	5.4	3.47	133	7.60	100
1	0.041	0.155	1155	5.18	0.194	23.6	2.7	0.89	131	7.61	100
2	0.163	0.617	1200	5.22	0.193	23.7	2.0	0.70	78	7.61	100
4	0.653	2.47	1205	5.29	0.193	23.8	1.6	0.54	64	7.61	100
6	1.469	5.56	1210	5.35	0.191	23.9	1.1	0.40	58	7.61	100
8	2.611	9.88									
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 40.90
Static Water Level: 7.46
Tube Intake Depth: 38.40
Well Volume: 20.63 L
Tubing/Cell Volume: 683 ml

Start Purge (hr): 1145
End Purge (hr): 1210
Total Purge Time (min): 25
Total Vol Purged: 25 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1215	Clear	5.35	0.191	23.9	1.1	0.40	58	7.61	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 308 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: OU2
Project No. ~~NUS~~ 2817

Sample Location: 11A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make\Model: Horiba U2000

Serial Nos.: 928096 T0052009

Sample ID No.: NTCOU2G11A08

Sampled By: Lyon

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1350	4.18	0.128	23.97	9.4	3.40	307	6.16	100
1	0.041	0.155	1355	4.18	0.129	24.24	9.0	2.91	309	↓	↓
2	0.163	0.617	1400	4.19	0.129	23.97	9.1	2.56	310	↓	↓
4	0.653	2.47	1405	4.19	0.129	23.52	9.9	2.25	309	6.15	↓
6	1.469	5.56	1410	4.20	0.128	23.56	13.0	3.90	305	↓	↓
8	2.611	9.88	1415	4.21	0.129	24.19	12.0	2.80	301	↓	↓
10	4.08	15.44	1420	4.23	0.128	23.78	12.0	2.56	302	↓	↓
	[1 gal. = 3.785 L]		1425	4.23	0.127	23.59	12.0	2.28	303	↓	↓
			1430	4.23	0.128	23.29	11.0	2.09	305	↓	↓
PID Reading (ppm): 0			1435	4.23	0.127	23.76	11.0	1.98	303	↓	↓
			1440	4.23	0.129	23.47	10.0	1.95	304	↓	↓
			1445	4.24	0.129	23.75	10.0	1.88	303	↓	↓
Well Casing Diameter: 2"			1450	4.23	0.129	23.67	10.0	1.90	303	↓	↓
Total Well Depth: 17.9'			~~1455~~	~~4.23~~	~~1.15~~	~~23.61~~	~~10.0~~	~~0.94~~	~~-85~~	↓	↓ CRL
Static Water Level: 6.14			1455	4.23	0.129	23.61	10.0	1.90	303	↓	↓
Tube Intake Depth: 15.4											
Well Volume: 2L											
Tubing/Cell Volume: 320 mL											
Start Purge (hr): 1350											
End Purge (hr): 1455											
Total Purge Time (min): 65											
Total Vol. Purged: 6.5L											

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time ~~1450~~ 1455	clear	4.23	0.129	23.67	10.0	1.90	303	6.15	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe & Mn		HNO_3	½	liter	HDPE	1
NA Ions ~~& Alkalinity~~			1	liter	HDPE	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [X] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Chesley R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC ORLANDO
Project No.: N4207

Sample Location: OLD-OU2-12A

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: Horiba U-22

Sample ID No.: NTCOU2G12A08

[X] Monitoring Well Data

Sampled By: BC

Serial Nos.:

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1440	4.22	0.030	22.2	3.8	1.4	362	6.83	100
1	0.041 / 0.155	1445	4.22	0.029	22.2	3.7	1.2	337	6.83	100
2	0.163 / 0.617	1450	4.19	0.029	22.1	2.2	1.2	343	6.83	100
4	0.653 / 2.47	1455	4.18	0.029	22.1	2.0	1.0	324	6.83	100
6	1.469 / 5.56	1500	4.17	0.029	22.1	1.5	1.0	318	6.83	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	(1 gal. = 3.785 L)									

PID Reading (ppm): 0.0

Well Casing Diameter: 2-inch
Total Well Depth: 14.49 ft
Static Water Level: 6.67 ft
Tube Intake Depth: 12.00 ft
Well Volume 48.13 mL
Tubing/Cell Volume 476.4 mL

7.8 WL

Start Purge (hr): 1425
End Purge (hr): 1500
Total Purge Time (min): 35
Total Vol. Purged: 3500 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1500	Clear	4.17	0.029	22.1	1.5	1.0	318	6.83	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
✓ TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
✓ Fe and Mn	6010B	HNO_3	1	500 mL	poly	1

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Brian Cole

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name NTC Orlando
Project No N4207

Sample Location: OLD-OU2-12B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.:

Sample ID No.: NTC OU2G12B08

Sampled By:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1440	5.32	0.114	23.52	2.22	0.15	-141	6.69	150
1	0.041	0.155	1445	5.32	0.114	23.59	2.31	0.09	-150	6.69	150
2	0.163	0.617	1450	5.36	0.113	23.43	2.84	0.14	-159	6.69	150
4	0.653	2.47									
6	1.469	5.56									
8	2.611	9.88									
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0.0

Well Casing Diameter: 2"
Total Well Depth: 34.67
Static Water Level: 6.55
Tube Intake Depth: 32.2
Well Volume: 17350 mL
Tubing/Cell Volume: 617.7 mL

Start Purge (hr): 1425
End Purge (hr): 1450
Total Purge Time (min): 25
Total Vol. Purged: 3750

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1450	Clear	5.36	0.113	23.43	2.84	0.14	-159	6.69	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
~~SVOCs/PAHs~~	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL~~ Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe/Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: [illegible]

Duplicate ID No.: [illegible]

Signature(s): [illegible]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC ORLANDO
Project No.: N4207

Sample Location: OLD - OU2 - 13A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: HORIBA - U22

Serial Nos.: _____

Sample ID No.: NTC OU2G13A08

Sampled By: BC

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	0950	5.58	0.321	21.8	7.0	1.9	250	6.21	100
1	0.041	0.155	0955	5.57	0.321	21.8	8.0	1.4	246	6.21	100
2	0.163	0.617	1000	5.55	0.321	21.8	8.3	1.5	245	6.21	100
4	0.653	2.47	1005	5.48	0.320	21.8	7.9	1.3	244	6.21	100
6	1.469	5.56	1010	5.50	0.321	22.0	10	1.3	241	6.21	100
8	2.611	9.88	1015	5.53	0.321	22.0	9.3	1.3	240	6.21	100
10	4.08	15.44	1020	5.56	0.322	22.1	10.0	1.4	239	6.21	100
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0.0

Well Casing Diameter: 2-inch
Total Well Depth: 14.25
Static Water Level: 6.19
Tube Intake Depth: 11.75
Well Volume: 4973 mL
Tubing/Cell Volume: 474.8 mL

Start Purge (hr): 0930
End Purge (hr): 1020
Total Purge Time (min): 50
Total Vol. Purged: 5000 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1020	Clear	5.56	0.322	22.1	10.0	1.4	239	6.21	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
✓ TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
✓ Fe + Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Ben Cole

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Page 1 of 1

Project Site Name: NTC Orlando
Project No.: N4207

Sample Location: OLD-OU2-13B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make/Model: Horiba U-22

Serial Nos.: _____

Sample ID No.: NTCOU2G13B08

Sampled By: JZ

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0950	5.40	0.157	23.41	2.69	0.20	-96	6.31	150
1	0.041 / 0.155	0955	5.35	0.158	23.44	3.11	0.13	-107	6.31	150
2	0.163 / 0.617	1000	5.36	0.160	23.45	2.15	0.11	-116	6.31	150
4	0.653 / 2.47	1005	5.34	0.164	23.51	7.02	0.13	-128	6.31	150
6	1.469 / 5.56	1010	5.33	0.166	23.54	2.19	0.13	-136	6.31	150
8	2.611 / 9.88	1015	5.32	0.167	23.58	2.20	0.13	-142	6.31	150
10	4.08 / 15.44	1020	5.32	0.169	23.60	2.16	0.11	-150	6.31	150
	[1 gal. = 3.785 L]	1025	5.31	0.171	23.66	2.02	0.08	-156	6.31	150

PID Reading (ppm): 0.0

Well Casing Diameter: 2"
Total Well Depth: 33.56
Static Water Level: 6.25
Tube Intake Depth: 31.0
Well Volume: 1685.0 mL
Tubing/Cell Volume: 609.9

Start Purge (hr): 0935
End Purge (hr): 1025
Total Purge Time (min): 50
Total Vol. Purged: 7500 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 3/25/03									
Time: 1025	Clear	5.31	0.171	23.66	2.02	0.08	-156	6.31	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~	6000/7000	HNO_3	1	1-liter	HDPE	
Fe/Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: [illegible]

Duplicate ID No.: [illegible]

Signature(s): Jeffrey L. Zimmerman

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Page 1 of 1

Project Site Name: NTC Orlando
Project No.: N4207

Sample Location: OLD-OU2-14A

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: Horiba U-22

Sample ID No.: NTCOU2G14A08

[X] Monitoring Well Data

Serial Nos.:

Sampled By: BC

[ ] Other Well Type:

C-O-C No.:

1.749

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1555	4.36	0.047	22.0	0	2.7	328	6.65	100
1	0.041 / 0.155	1600	4.35	0.047	22.0	0	2.5	328	6.65	100
2	0.163 / 0.617	1605	4.35	0.047	22.0	0	2.1	335	6.65	100
4	0.653 / 2.47	1610	4.35	0.046	22.0	0	1.9	343	6.65	100
6	1.469 / 5.56	1615	4.35	0.046	22.0	0	1.9	357	6.65	100
8	2.611 / 9.88	1620	4.36	0.047	21.9	0	1.5	350	6.65	100
10	4.08 / 15.44	1625	4.36	0.046	21.8	0	1.5	345	6.65	100
	[1 gal. = 3.785 L]	1630	4.36	0.046	21.8	0	1.5	334	6.65	100

PID Reading (ppm): 0.0

Well Casing Diameter: 2-inch
Total Well Depth: 13.89
Static Water Level: 6.63
Tube Intake Depth: 11.39
Well Volume: 4479 mL
Tubing/Cell Volume: 472 mL

Start Purge (hr): 1540
End Purge (hr): 1630
Total Purge Time (min): 50
Total Vol. Purged: 5000 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1630	clear	4.36	0.046	21.8	0	1.5	334	6.65	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
✓ TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
✓ Fe and Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name NTC Orlando
Project No. NH207

Sample Location: OLD-OU2-14B

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: Horiba U-22

Sample ID No.: NTCOU2G14B08

[X] Monitoring Well Data

Sampled By: JE

Serial Nos.:

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1600	5.00	0.189	22.87	1.19	0.05	-131	6.60	150
1	0.041 / 0.155	1605	5.02	0.189	22.84	1.84	Ø	-137	6.60	150
2	0.163 / 0.617	1610	5.09	0.187	22.88	2.70	Ø	-146	6.60	150
4	0.653 / 2.47									
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal = 3.785 L]									

PID Reading (ppm) 0.0

Well Casing Diameter: 2"
Total Well Depth: 34.00'
Static Water Level: 6.54'
Tube Intake Depth: 31.50
Well Volume 1694.3 mL
Tubing/Cell Volume 313 mL

Start Purge (hr): 1545
End Purge (hr): 1610
Total Purge Time (min): 25
Total Vol. Purged 3750

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1610	Clear	5.09	0.187	22.88	2.70	Ø	-146	6.60	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
~~SVOCs/PAHs~~	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~	6000/7000	HNO_3	1	1-liter	HDPE	
Fe / Mn	6010B	None	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: JE

Duplicate ID No.: JE

Signature(s): Jeffrey L. Gunnerly

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No.: N4207

Sample Location: OLD-OU2-17A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: Horiba U-22

Serial Nos.:

Sample ID No.: NTCOU2G17A08

Sampled By: BC

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	0800	5.96	0.334	21.1	7.4	3.2	238	5.56	100
1	0.041	0.155	0805	5.94	0.332	21.1	6.9	2.9	236	5.56	100
2	0.163	0.617	0810	5.92	0.329	21.1	6.9	2.8	234	5.56	100
4	0.653	2.47	0815	5.91	0.328	21.2	5.9	2.6	232	5.56	100
6	1.469	5.56	0820	5.90	0.328	21.2	5.9	2.6	231	5.56	100
8	2.611	9.88									
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0.0

Well Casing Diameter: 2-inch
Total Well Depth: 14.64
Static Water Level: 5.51
Tube Intake Depth: 12.1
Well Volume: 5633 mL
Tubing/Cell Volume: 477 mL

Start Purge (hr): 0745
End Purge (hr): 0820
Total Purge Time (min): 35
Total Vol. Purged: 3500

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0820	Clear	5.90	0.328	21.2	5.9	2.6	231	5.56	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
✓ TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
✓ Fe + Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. N4207

Sample Location: OLD-OU2-17B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.:

Sample ID No.: NTC OU2 G17B08

Sampled By: JZ

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0805	5.06	0.219	22.41	1.50	0.37	-100	5.61	150
1	0.041 / 0.155	0810	5.22	0.207	22.60	0.95	0.07	-121	5.61	150
2	0.163 / 0.617	0815	5.24	0.207	22.60	0.69	0.09	-125	5.61	150
4	0.653 / 2.47	0820	5.25	0.206	22.72	0.77	0.02	-130	5.61	150
6	1.469 / 5.56	0825	5.25	0.206	22.76	0.91	Ø	-135	5.61	150
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0.0

25.55

Well Casing Diameter: 2"
Total Well Depth: 34.45
Static Water Level: 5.60
Tube Intake Depth: 31.9
Well Volume: 1750 mL
Tubing/Cell Volume: 616.2 mL

Start Purge (hr): 0750
End Purge (hr): 0825
Total Purge Time (min): 35
Total Vol. Purged: 5250

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0825	clear	5.25	0.206	22.76	0.91	Ø	-135	5.61	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [X] Teflon
- [ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: NS

Duplicate ID No.: NS

Signature(s): [signature]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC ORLANDO
Project No. N4207

Sample Location: OLD-OU2-18A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22

Serial Nos.:

Sample ID No.: NTC OU2G18A08

Sampled By: BC

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1715	4.21	0.060	22.2	0.51	6.2	415	6.59	100
1	0.041 / 0.155	1720	4.21	0.060	22.2	0.44	6.1	416	6.59	100
2	0.163 / 0.617	1725	4.21	0.060	22.3	0.56	6.0	418	6.59	100
4	0.653 / 2.47	1730	4.21	0.060	22.2	0.60	5.9	418	6.59	100
6	1.469 / 5.56	1735	4.21	0.060	22.1	0.39	5.9	421	6.59	100
8	2.611 / 9.88	1740	4.21	0.060	22.1	0.46	5.9	422	6.59	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0.0

Well Casing Diameter: 2-inch
Total Well Depth: 14.49
Static Water Level: 6.44
Tube Intake Depth: 12.0
Well Volume: 496 mL
Tubing/Cell Volume: 476 mL

Start Purge (hr): 1700
End Purge (hr): 1740
Total Purge Time (min): 40
Total Vol. Purged: 4000

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1740	Clear	4.21	0.060	22.1	0.46	5.9	422	6.59	100

ANALYSES INFORMATION

	Analysis		Preservative	Container Requirements			Collected
✓	TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
	SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
	Pesticides	8081A	None	2	1-liter	amber glass	
	Herbicides	8151	None	2	1-liter	amber glass	
	TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
✓	Fe and Mn	6010B	HNO_3	1	500mL	poly	1

ADDITIONAL INFORMATION

Comments: DO > 20% sat

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): [illegible]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207

Sample Location: OLD-OU2-18B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: _____

Sample ID No.: NTC OU2G18B08

Sampled By: JZ

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1720	5.50	0.099	23.23	8.20	0.40	-125	6.45	150
1	0.041 / 0.155	1725	5.50	0.098	23.27	8.72	0.25	-132	6.45	150
2	0.163 / 0.617	1730	5.51	0.096	23.29	8.36	0.20	-141	6.45	150
4	0.653 / 2.47									
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0.0

Well Casing Diameter: 2"
Total Well Depth: 33.95
Static Water Level: 6.71
Tube Intake Depth: 31.45
Well Volume: 1680.7 mL
Tubing/Cell Volume: 613 mL

Start Purge (hr): 1705
End Purge (hr): 1730
Total Purge Time (min): 25
Total Vol. Purged: 3750 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03 Time 1730	Clear	5.51	0.096	23.29	8.36	0.20	-141	6.45	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	6
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
~~Herbicides~~ Alkalinity	~~8151~~	None	1	~~250 ml~~ ~~liter~~	~~amber glass~~ Poly	2
~~TAL Metals~~ NH IONS	~~6000/7000~~	None ~~HNO_3~~	1	1-liter	~~HDPE~~ Poly	2
Fe Mn	6010B	HNO_3	1	500 mL	Poly	2

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- ~~[X] Teflon~~
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: NTCOU2GD200008

Signature(s): Jeffrey L. Zuniarty

DO Kit using both ranges (0-1 & 1-10) = 1

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207

Sample Location: OLD-OU2-20A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: Horiba U-22
Serial Nos.: T0052020

Sample ID No.: NTCOU2G20A08

Sampled By: JMF

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1125	4.57	.070	22.32	18.1	3.65		6.73	100
1	0.041 / 0.155	1135	4.59	.070	22.44	16.8	3.48		6.73	100
2	0.163 / 0.617	1140	4.61	.070	22.37	11.4	3.52		6.73	100
4	0.653 / 2.47	1145	4.61	.069	22.36	10.7	3.49		6.73	100
6	1.469 / 5.56	1150	4.62	.069	22.36	9.95	3.47	108	6.73	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 2"
Total Well Depth: 17.85
Static Water Level: 6.80
Tube Intake Depth: 13
Well Volume: 6.8L
Tubing/Cell Volume: 400ml

Start Purge (hr): 1120
End Purge (hr): 1150
Total Purge Time (min): 40
Total Vol. Purged: 4000ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1200	Clear	4.62	.069	22.36	9.95	3.47	108	6.73	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
DOC		H_2SO_4	1	250ml	amber glass	✓
Fe & Mn		HNO_3	1	500ml	HDPE	✓
Na Ions		None	1	1-liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name NTC Orlando
Project No OU 2

Sample Location: OLD-OU2-20B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: T2012018

Sample ID No.: NTCOU2GW20B08

Sampled By: J. Johnson

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	11:15	6.39	0.094	24.1	0	5.49	1	NM	100
1	0.041	0.155	11:20	5.90	0.096	24.1	0	3.61	-10	NM	100
2	0.163	0.617	11:25	5.89	0.097	24.1	0	2.72	-33	NM	100
4	0.653	2.47	11:30	5.90	0.099	24.0	0	0.92	-48	NM	100
6	1.469	5.56	11:35	5.90	0.099	24.1	0	0.89	-54	NM	100
8	2.611	9.88									
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm) See WL Sheet

Well Casing Diameter 2"
Total Well Depth 40.62
Static Water Level 7.13
Tube Intake Depth 38.0'
Well Volume 20.66 L
Tubing/Cell Volume 375 ml

Start Purge (hr) 11:05
End Purge (hr) 1:35
Total Purge Time (min) 30
Total Vol. Purged 3L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 11:45	Clear	5.90	0.099	24.1	0	0.89	-54	NM	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
~~Herbicides~~ DCC	8151	H_2SO_4 ~~None~~	1 ~~2~~	~~1-liter~~	amber glass 250 ml	1
~~TAL Metals~~ Fe + Mn	6000/7000	HNO_3	1	~~1-liter~~	HDPE 500 ml	1
~~Ions~~ + Alkalinity		~~H2SO4~~ None	1	1-Liter	HDPE	1

ADDITIONAL INFORMATION

Comments: DTW not measured - had to tie WL indicator to tubing to get tubing in well.

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): J. Johnson

Well Volume = 40.62 - 7.13 = 33.49 x 0.617 = 20.66 L

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name NTC Orlando
Project No N4207

Sample Location: OLD-OU2-21A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: Horiba U-22
Serial Nos.: T0052020

Sample ID No.: NTCOU2G21A08

Sampled By: JMF

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1600	4.27	.045	22.38	1.0	4.16		6.60	100
1	0.041 / 0.155	1605	4.28	.045	22.45	.83	3.99		6.60	100
2	0.163 / 0.617	1610	4.28	.045	22.47	Ø	3.90		6.60	100
4	0.653 / 2.47	1615	4.28	.045	22.45	Ø	3.87	86	6.60	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm)

Well Casing Diameter: 2"
Total Well Depth: 17.21
Static Water Level: 6.55
Tube Intake Depth: 12'
Well Volume: 6.58L
Tubing/Cell Volume: 400ml

Start Purge (hr): 1550
End Purge (hr): 1615
Total Purge Time (min): 25
Total Vol. Purged: 2500ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1625	Clear	4.28	.045	22.45	Ø	3.87	86	6.60	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
DOC		H_2SO_4	1		amber glass 250 ml	✓
Fe & Mn		HNO_3	1		HDPE 500 ml	✓
NA Ions		None	1	1-liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: Yes

Duplicate ID No.: —

Signature(s): JMF

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name NTC Orlando
Project No OU2

Sample Location: OLD-OU2-21B

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U22

Sample ID No.: NTCOU2G21B05

[X] Monitoring Well Data

Serial Nos.: T2012018

Sampled By: [signature]

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	16:05	5.55	0.138	23.0	7.2	1.15	-34	NM	100
1	0.041	0.155	16:10	5.52	0.138	23.0	6.2	0.66	-37	NM	100
2	0.163	0.617	16:15	5.50	0.135	22.8	6.4	0.58	-40	NM	100
4	0.653	2.47	16:20	5.47	0.134	22.7	5.8	0.55	-41	NM	100
6	1.469	5.56	16:25	5.45	0.132	22.7	5.6	0.53	-42	NM	100
8	2.611	9.88									
10	4.08	15.44									
	[1 gal = 3.785 L]										

PID Reading (ppm) See WL Sheet

Well Casing Diameter: 2"
Total Well Depth: 32.71
Static Water Level: 7.38
Tube Intake Depth: 32.0
Well Volume: 15.63L
Tubing/Cell Volume: 375ml

Start Purge (hr): 1600
End Purge (hr): 16:25
Total Purge Time (min): 25
Total Vol Purged: 2.5L

32.71 − 7.38 = 25.33 × 0.617 = 15.63L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1630	Clear	5.45	0.132	22.7	5.6	0.53	-42	NM	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
~~Herbicides~~ DOC	8151	H_2SO_4 ~~None~~	1 ~~2~~	~~1-liter~~	amber glass 250ml	1
~~TAL Metals~~ Fe + Mn	6000/7000	HNO_3	1	~~1-liter~~	HDPE 500ml	1
Ions + Alkalinity		None	1	1-Liter	HDPE	1

ADDITIONAL INFORMATION

Comments: Had to twist-tie to tubing to get down well – WL not measured each reading

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Page 1 of 1

Project Site Name: NTC Orlando
Project No: OU2

Sample Location: OLD-OU2-22A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: T2012018

Sample ID No.: NTCOU2622A08

Sampled By: J. Johnson

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	0820	5.28	0.122	21.2	>999	0.72	9	4.55	100 — Disconnect Horiba + turn up flow
1	0.041	0.155	08:45	5.30	0.122	21.7	>999	0.92	26	4.74	~~100~~
2	0.163	0.617	09:30	5.22	0.128	22.5	700	0.96	52	4.69	—
4	0.653	2.47	09:35	5.22	0.126	22.4	>999	0.94	48	4.62	<100
6	1.469	5.56	0940	5.21	0.125	22.5	>999	0.97	33	4.62	<100
8	2.611	9.88	0945	5.22	0.125	22.6	>999	0.99	28	4.64	<100
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm): See OU2 Sheet

Well Casing Diameter: 2"

Total Well Depth: 17.15

Static Water Level: 4.29

14.6 Ft Tube Intake Depth: ~~17.15~~

Well Volume: 7.93 l

Tubing/Cell Volume: ~375 ml

Start Purge (hr): 08:00

End Purge (hr): 09:45

Total Purge Time (min): 105

Total Vol. Purged: 15 L+

17.15 − 4.29 = 12.86 × 0.617 = 7.93 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 09:50	Dk Brown	5.22	0.125	22.6	>999	0.99	28	4.64	<100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
~~Herbicides~~ DRO	~~8151~~	H_2SO_4 ~~None~~	1 ~~2~~	~~1-liter~~	amber glass 250 ml	1
~~TAL Metals~~ Fe + Mn	6000/7000	HNO_3	1	~~1-liter~~	HDPE 500 ml	1
IONS + Alkalinity		None	1	1-Liter	HDPE	1

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [ ] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207

Sample Location: OLD-OU2-22B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: Horiba U-22
Serial Nos.: T0052020

Sample ID No.: NTC OU2G 22B08

Sampled By: J Fournier

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0810	5.37	.123	21.26	16.3	4.20		3.50	100
1	0.041 / 0.155	0820	5.34	.127	21.61	8.23	4.52		3.50	100
2	0.163 / 0.617	0830	4.95	.154	21.63	7.60	4.40		3.50	100
4	0.653 / 2.47	0835	5.01	.154	21.65	7.19	4.07		3.50	100
6	1.469 / 5.56	0840	5.08	.152	21.66	6.85	3.82		3.50	100
8	2.611 / 9.88	0845	5.09	.151	21.67	6.55	3.78		3.50	100
10	4.08 / 15.44	0850	5.10	.152	21.68	5.62	3.77	-155	3.50	100
	(1 gal. = 3.785 L)									

PID Reading (ppm)

Well Casing Diameter: 2"
Total Well Depth: 31.25
Static Water Level: 3.48
Tube Intake Depth: 27
Well Volume: 17 L
Tubing/Cell Volume: 450 ml

Start Purge (hr): 0750
End Purge (hr): 0850
Total Purge Time (min): 60
Total Vol. Purged: 16000 ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 0900	Clear	5.10	.152	21.68	5.62	3.77	-155	3.50	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
DOC		H_2SO_4	1	250 ml	amber glass	✓
Fe & Mn		HNO_3	1	500 ml	HDPE	✓
Na Ions & Alkalinity		None	1	1-liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.: NTC0U2GD30008

Signature(s): [signature]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. N4207/MG005A140

Sample Location: OLD-OU2-27A

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2G-27A08

[X] Monitoring Well Data

Serial Nos.: 922001

Sampled By: SRM

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0740	5.65	0.365	21.40	19.20	3.09	18	10.89	100
1	0.041 / 0.155	0745	5.69	0.367	22.0	18.7	1.11	21	10.90	100
2	0.163 / 0.617	0750	5.69	0.362	22.2	8.9	0.84	24	10.90	100
4	0.653 / 2.47	0755	5.69	0.359	22.2	6.2	0.76	26	10.90	100
6	1.469 / 5.56	0800	5.69	0.359	22.2	5.9	0.71	24	10.90	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"

Total Well Depth: ~~35.7~~ 19.7

Static Water Level: 10.83

Tube Intake Depth: 15.27

Well Volume: 5.47 L

Tubing/Cell Volume: 536 ml

Start Purge (hr): ~~0835~~ 0735

End Purge (hr): 0800

Total Purge Time (min): 25

Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0805	clear	5.69	0.359	22.2	5.9	0.71	24	10.90	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓
NA Ions, Alkalinity, ~~Fe, Mn~~			1	1-liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft 161 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No.: N4207/MG005A140

Sample Location: OLD-OU2-27B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2627B08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0820	5.49	0.276	22.7	17.9	0.49	27	10.21	100
1	0.041 / 0.155	0825	5.55	0.273	22.6	16.7	0.40	2	10.20	100
2	0.163 / 0.617	0830	5.55	0.269	22.6	13.9	0.36	-7	10.20	100
4	0.653 / 2.47									
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 35.7
Static Water Level: 10.1
Tube Intake Depth: 33.2
Well Volume: 15.79 L
Tubing/Cell Volume: 554.2 ml

Start Purge (hr): 0815
End Purge (hr): 0830
Total Purge Time (min): 15
Total Vol. Purged: 1.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0835	Clear	5.55	0.269	22.6	13.9	0.36	-7	10.20	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, MN	6000/7000	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓
NA Ions, Alkalinity			1	liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 179.2
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No.: N4207/MG005A140

Sample Location: OLD-OU2-28A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G28A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0900	5.34	0.207	22.6	14.6	2.88	45	9.97	100
1	0.041 / 0.155	0905	5.43	0.202	22.7	12.7	0.52	22	9.97	100
2	0.163 / 0.617	0910	5.43	0.202	22.5	6.4	0.39	16	9.97	100
4	0.653 / 2.47	0920	5.43	0.202	22.5	4.7	0.35	9	9.97	100
6	1.469 / 5.56	~~0925~~								
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 19.67
Static Water Level: 9.86
Tube Intake Depth: 14.7
Well Volume: 6.05 L
Tubing/Cell Volume: 536 ml

Start Purge (hr): 0855
End Purge (hr): 0920
Total Purge Time (min): 25
Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0925	clear	5.43	0.202	22.5	4.7	0.35	9	9.97	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓
NA Ions, Alkalinity			1 - 1-liter HDPE			✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 161 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGuire

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. N4207/MG005A140

Sample Location: OLD-OU2-28B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G28B08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0935	5.09	0.306	23.3	16.0	3.25	108	9.91	100
1	0.041 / 0.155	0939	5.03	0.306	23.4	12.8	0.60	102	9.91	100
2	0.163 / 0.617	0942	5.04	0.306	23.4	5.4	0.54	93	9.91	100
4	0.653 / 2.47	0946	5.05	0.306	23.5	2.7	0.49	81	9.91	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 34.65
Static Water Level: 9.79
Tube Intake Depth: 32.65
Well Volume: 15.33 L
Tubing/Cell Volume: 641 ml

Start Purge (hr): 0930
End Purge (hr): 0945
Total Purge Time (min): 15
Total Vol. Purged: 1.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0950	Clear	5.05	0.306	23.5	2.7	0.49	81	9.91	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓
~~N~~			~~1-liter~~	~~HDPE~~		~~✓~~

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 266 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGuire

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: Orlando NTC
Project No.: _____

Sample Location: OLD-OU2-29A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U-22

Serial Nos.: _____

Sample ID No.: NTCOU2G29A08

Sampled By: C Gleaton

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1354	5.23	0.400	22.35	34.8	1.77	34	0.6	100
1	0.041	0.155	1359	5.20	0.431	22.34	71.0	0.90	27	0.6	100
2	0.163	0.617	1404	5.26	0.485	22.40	70.1	0.71	8	0.6	100
4	0.653	2.47	1409	5.22	0.419	22.17	60.8	0.59	2	0.6	100
6	1.469	5.56	1414	5.20	0.416	22.20	36.4	0.57	-3	0.6	100
8	2.611	9.88	1419	5.19	0.415	22.25	22.1	0.51	-3	0.6	100
10	4.08	15.44	1424	5.19	0.416	22.21	14.5	0.50	-8	0.6	100
	[1 gal. = 3.785 L]		1429	5.19	0.416	22.20	13.8	0.52	-10	0.6	100
			1434	5.19	0.416	22.19	13.1	0.49	-15	0.6	100
PID Reading (ppm): 0.0			1439	5.19	0.416	22.20	13.2	0.52	-19	0.6	100

Well Casing Diameter: 2 inch
Total Well Depth: 14.42
Static Water Level: 0.5
Tube Intake Depth: 5.42
Well Volume: 2.15 L
Tubing/Cell Volume: 480

Start Purge (hr): 1342
End Purge (hr): 1439
Total Purge Time (min): 50
Total Vol. Purged: 5.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1455	Clear	5.19	0.416	22.20	13.2	0.52	-19	0.6	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe & Mn		HNO_3	500 ml		HDPE	✓

ADDITIONAL INFORMATION

Comments:
lost tank

NA DO 0.4 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: _____

Duplicate ID No.: _____

Signature(s): C. Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: OU2
Project No: N2817

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: _____

Flow-Thru Cell Make/Model: Horiba U2000
Serial Nos.: 928096
T0052009

Sample Location: OLD-OU2-29B
Sample ID No.: NTCOU2G29B08
Sampled By: Lyon
C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1355	5.77	0.125	23.54	42.1	6.78	-12	0.2	100
1	0.041	0.155	1400	5.75	0.126	23.51	37	2.86	-20	0.2	
2	0.163	0.617	1405	5.75	0.126	23.54	27	2.04	-25	0.3	
4	0.653	2.47	1410	5.75	0.125	~~23.53~~	21	2.93	-34	0.3	
6	1.469	5.56	—	—	—	23.41	—	—	—		
8	2.611	9.88	1415	5.75	0.126	23.50	21	1.75	-38		
10	4.08	15.44	1420	5.84	0.126	23.67	20	3.67	-39		
	[1 gal. = 3.785 L]		1425	5.75	0.125	23.67	18	1.52	-45		
			1430	5.75	0.125	23.55	14	1.18	-47		
PID Reading (ppm): 0			1435	5.74	0.125	23.49	15	0.99	-50		
			1440	5.75	0.125	23.48	11	1.01	-50		
			1445	5.74	0.125	23.49	10	0.88	-55		
Well Casing Diameter: 1"			1450	5.73	0.125	23.50	10	0.85	-56		
Total Well Depth: 29.20			1455	5.73	0.125	23.49	10	0.86	-56		
Static Water Level: 0.1"											
Tube Intake Depth:											
Well Volume 450 ml											
Tubing/Cell Volume 320 mL											
Start Purge (hr): 1355											
End Purge (hr): 1455											
Total Purge Time (min): 60											
Total Vol Purged ~~450 ml~~ 6 Liters											

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1455	clear	5.73	0.125	23.49	10	0.86	-56	0.3	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	0.5-liter	1	~~1-liter~~	HDPE	1
NA Ions, Alkalinity		none		1	1-liter	HDPE	1

ADDITIONAL INFORMATION

Comments: Almost a flowing well
Chemet DO = 0.9 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[X] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Charles R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: Orlando NTC
Project No.: _____

Sample Location: OLD-002-30A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: _____

Sample ID No.: NTC002G30A08

Sampled By: C Gleaton

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1543	5.06	0.598	23.37	879	3.73	119	2.95	100
1	0.041 / 0.155	1548	5.03	0.459	23.30	874	1.25	125	3.45	75
2	0.163 / 0.617	1553	5.03	0.546	22.96	680	1.09	132	4.08	75
4	0.653 / 2.47	1558	5.04	0.510	22.88	624	0.78	132	4.50	75
6	1.469 / 5.56	1603	5.04	0.398	22.89	608	0.65	131	4.86	75
8	2.611 / 9.88	1608	5.03	0.402	22.91	601	0.63	130	5.14	75
10	4.08 / 15.44	1613	5.04	0.401	22.92	662	0.64	130	5.20	75
	[1 gal. = 3.785 L]	1618	5.02	0.401	22.91	702	0.64	131	5.43	75
		1623	5.01	0.400	22.75	648	0.65	128	5.63	75
PID Reading (ppm): 0.0		1628	5.05	0.401	22.65	549	0.63	116	5.70	75
		1633	5.07	0.443	22.61	486	0.60	109	5.82	75
		1638	5.07	0.445	22.63	479	0.60	109	5.85	75
Well Casing Diameter: 1 inch		1643	5.06	0.446	22.67	430	0.59	104	5.87	75
Total Well Depth: 13.70		1648	5.06	0.440	22.64	442	0.62	101	5.89	75
Static Water Level: 1.55		1653	5.07	0.483	22.65	451	0.60	97	5.90	75
Tube Intake Depth: 5.7 ft		1658	5.07	0.481	22.65	458	0.59	98	5.90	75
Well Volume: 1.88 L		1703	5.07	0.480	22.65	455	0.60	93	5.90	75
Tubing/Cell Volume: 480		1708	5.07	0.480	22.64	468	0.59	87	5.90	75
Start Purge (hr): 1538										
End Purge (hr): 1708										
Total Purge Time (min): 90										
Total Vol. Purged: 7.7 L										

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1718	Brown	5.07	0.480	22.64	468	0.59	87	5.90	75

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe & Mn			500	1 liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:
Ions & Alk 1 liter

NA DO 0.60 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: _____

Duplicate ID No.: _____

Signature(s): C Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: OU2
Project No: N2817

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type: _____

Flow-Thru Cell
Make/Model: Horiba U-2000
Serial Nos.: 928096
T0052009

Sample Location: NTC-OU2-30B
Sample ID No.: NTC OU2G30B08
Sampled By: Lyon
C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1550	6.28	1.13	23.38	4.6	6.75	-63	3.70	100
1	0.041 / 0.155	1555	6.21	1.21	23.61	15	1.62	-77	3.70	↓
2	0.163 / 0.617	1600	6.22	1.20	23.62	20	1.30	-80	3.70	↓
4	0.653 / 2.47	1605	6.21	1.21	23.62	16	1.19	-80	3.68	↓
6	1.469 / 5.56	1610	6.22	1.12	23.68	11	0.78	-89	↓	↓
8	2.611 / 9.88	1615	6.22	1.11	23.71	7.6	0.68	-90	↓	↓
10	4.08 / 15.44	1620	6.22	1.10	23.59	5.3	0.57	-93	↓	↓
	[1 gal. = 3.785 L]	1625	6.21	1.07	23.47	4.1	0.48	-94	↓	↓
		1630	6.21	1.06	23.40	2.8	0.42	-95	↓	↓
PID Reading (ppm): 0		1635	6.20	1.06	23.49	2.8	0.42	-95	↓	↓
		1640	6.20	1.05	23.49	2.8	0.40	-95	↓	↓

Well Casing Diameter: 1"
Total Well Depth: 31.66'
Static Water Level: 3.56'
Tube Intake Depth: 28.5'
Well Volume: 4.4 L
Tubing/Cell Volume: 390 mL

Start Purge (hr): 1550
End Purge (hr): 1555
Total Purge Time (min): 50
Total Vol. Purged: 5L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1640	clear	6.20	1.05	23.49	2.8	0.40	-95	3.68	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals Fe & Mn	~~6000/7000~~	HNO_3	0.5 liter 1	~~1-liter~~ CL	HDPE	1
NA Ions, Alkalinity		none	1	1-liter	HDPE	1

ADDITIONAL INFORMATION

Comments: Chemet DO = 4.0 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[X] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Chrisly R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name
Project No. N2817

Sample Location: OLD-OU2-31A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make/Model: Horiba U2000

Serial Nos.: 928096
T0052009

Sample ID No.: NTCOU2G31A08

Sampled By: Lyon

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time* Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	0830	5.26	0.049	20.57	28.3	2.44	213	9.75	100
1	0.041	0.155	0835	5.28	0.052	20.84	29.3	1.75	202		
2	0.163	0.617	0845	5.60	0.051	21.01	274	2.74	101		
4	0.653	2.47	0850	5.60	0.052	21.02	300	2.60	80		
6	1.469	5.56	0855	5.43	0.046	21.06	924	3.86	144	9.78	
8	2.611	9.88	0905	5.19	0.045	20.80	30.9	4.88	189		
10	4.08	15.44	0910	5.25	0.045	21.09	35.1	1.60	191		
	[1 gal. = 3.785 L]		0915	5.28	0.044	21.27	39.3	1.00	190		
			0920	5.28	0.044	21.33	38.2	0.86	191		
PID Reading (ppm): 0			0925	5.29	0.046	21.46	36.1	0.71	195		
			0930	5.31	0.044	21.65	35.0	0.75	194		
			0935	5.31	0.043	21.87	34.7	0.61	187		
Well Casing Diameter: 1"			0940	5.32	0.043	22.06	29.2	0.62	186		
Total Well Depth: 17.60'			0945	5.46	0.045	22.06	30.8	0.62	189		
Static Water Level: 9.82'			0950	5.35	0.044	22.19	30.6	1.30	189		
Tube Intake Depth: 15.31'			1000	5.42	0.041	22.87	29.7	1.32	178	9.80	
Well Volume: 2.4L			1005	5.40	0.043	22.81	54.7	1.17	167		
Tubing/Cell Volume: 315 ml			1010	5.37	0.044	22.86	33.8	0.87	179		
			1015	5.36	0.043	~~23.20~~ 22.85	28.2	0.79	181		
Start Purge (hr): 0830			1020	5.36	0.042	22.50	21.3	0.55	183		
End Purge (hr): 1045			1025	5.35	0.042	22.58	20.9	0.50	183		
Total Purge Time (min): 125			1030	5.35	0.043	22.83	22.2	0.53	183		
Total Vol. Purged: 3 gal			1035	5.35	0.042	22.62	21.2	0.58	182		
7.35L			1040	5.35	0.042	22.72	21.5	0.52	182		
			1045	5.35	0.042	22.71	21.9	0.53	181		

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1045	clear	5.35	0.042	22.71	21.9	0.53	181	9.80	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals NA Iron + Alk	6000/7000	HNO_3	1	1-liter	HDPE	✓
Fe + Mn						✓

ADDITIONAL INFORMATION

Comments: * Filled cell & tubing first

Chemet DO = 0.6

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[X] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Charley R. Lyon

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Page 1 of 1

Project Site Name: Orlando NTC
Project No.: _____

Sample Location: OLD-002-31B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: _____

Sample ID No.: NTC002G31B08

Sampled By: C Gleaton

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0830	4.91	0.180	20.99	32.6	1.46	31	9.60	100
1	0.041 / 0.155	0835	4.88	0.180	21.10	23.7	1.05	21	9.60	100
2	0.163 / 0.617	0840	4.87	0.175	20.99	22.2	0.87	-2	9.60	100
4	0.653 / 2.47	0845	4.85	0.176	21.70	15.9	0.85	-15	9.60	100
6	1.469 / 5.56	0850	4.83	0.175	21.82	8.65	0.68	-25	9.60	100
8	2.611 / 9.88	0855	4.82	0.173	22.04	6.71	0.65	-32	9.60	100
10	4.08 / 15.44	0900	4.80	0.173	22.05	6.67	0.65	-34	9.60	100
	[1 gal. = 3.785 L]	0905	4.79	0.172	22.09	6.59	0.64	-37	9.60	100
		0910	4.79	0.172	22.10	6.61	0.63	-39	9.60	100

PID Reading (ppm): 0.0

Well Casing Diameter: 1 inch
Total Well Depth: 32.90
Static Water Level: 9.70
Tube Intake Depth: 30.40
Well Volume: 3.6 L
Tubing/Cell Volume: 620

Start Purge (hr): 0825
End Purge (hr): 0910
Total Purge Time (min): 45
Total Vol. Purged: 4.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 09:20	Clear	4.79	0.172	22.10	6.61	0.63	-39	9.60	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Lab ~~Filt~~	300/310	None	1	1 liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:
Fe & Mn 6010
NA DO .6 mg/L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): C. Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No.: OU2

Sample Location: OLD-02 - 32A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: T2012018

Sample ID No.: NTCOU2G32A08

Sampled By: J. Johnson

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	11:15	4.83	0.023	22.3	37	7.01	261	8.85	100
1	0.041 / 0.155	11:20	4.82	0.023	22.2	45	7.00	262	8.86	100
2	0.163 / 0.617	11:25	4.85	0.022	22.3	46	6.96	261	8.97	100
4	0.653 / 2.47	11:30	4.86	0.022	22.1	47	6.84	260	9.09	100
6	1.469 / 5.56	11:35	4.87	0.022	22.0	50	6.68	260	9.18	100
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

Sampled Due to Turbidity rising.

Start Ra

PID Reading (ppm): See WL Sheet

Well Casing Diameter: 1"

Total Well Depth: 17.60

Static Water Level: 7.92

Tube Intake Depth: 15.0

Well Volume: 1.50

Tubing/Cell Volume: .375 l

Start Purge (hr): 11.05

End Purge (hr): 11.35

Total Purge Time (min): 30

Total Vol. Purged: 3 l

17.6 - 7.92 = 9.68 l x 0.155 = 1.50 l Well Volume

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 11:40	Stain	4.87	0.022	22.0	50	6.68	260	9.18	100

TEA

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe + MN	6000/7000	HNO_3	1-500 ml	+ ~~1 liter~~	HDPE	1
Ions + ~~Alkalinity~~	300.0A ~~Stout~~	None	1	1-liter	HDPE	1

ADDITIONAL INFORMATION

Comments:
Also testing NA Field Parameters, Lt Hydrocarbons, Perm. Gases, + Hydrogen
DO = 5.5 mg/L using 1-12 Range

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

See NA Sheets for other Tests

No ALKALINITY

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name NTC orlando
Project No N4207

Sample Location: OLD-OU2-32B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: Horiba U-22
Serial Nos.: T0052020

Sample ID No.: NTCOU2G32B08

Sampled By: JMF

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1130	5.23	.061	23.00	3.50	4.91		8.85	100
1	0.041 / 0.155	1135	5.24	.061	22.97	2.36	4.64		8.86	100
2	0.163 / 0.617	1140	5.25	.060	23.02	2.54	4.72		8.88	100
4	0.653 / 2.47									
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm)

Well Casing Diameter: 1"
Total Well Depth: 33.25
Static Water Level: 8.67
Tube Intake Depth: 30'
Well Volume 3.81 L
Tubing/Cell Volume: 400ml

Start Purge (hr) 1115
End Purge (hr) 1140
Total Purge Time (min) 25
Total Vol. Purged 2500ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1150	Clear	5.25	.060	23.02	2.54	4.72	-145	8.88	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~Metals~~ Fe & Mn (6010B)		HNO_3	1	~~liter~~ 500ml	HDPE	✓
NA Ions & Alkalinity		None	1	1-liter	HDPE	✓

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No. 002

Sample Location: OLD-002-334

[ ] Domestic Well Data

Flow-Thru Cell Make/Model: Horiba U-22

Sample ID No.: NTC002-33A08

[X] Monitoring Well Data

Serial Nos.: I2012018

Sampled By: J. Johnson

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	0755	5.34	0.085	20.3	160	1.39	165	10.88	100
1	0.041 / 0.155	0800	Stop pump to let well recover and							
2	0.163 / 0.617	08:05	to let turbidity settle a little - Begin pumping							
4	0.653 / 2.47	08:10	After changing Battery in Horiba							
6	1.469 / 5.56	08:40	5.33	0.076	21.2	90	1.77	170	10.65	<100
8	2.611 / 9.88	08:45	5.32	0.077	21.3	95	1.41	176	10.69	<100
10	4.08 / 15.44	08:50	5.31	0.077	21.4	95	1.45	177	10.71	<100
	(1 gal. = 3.785 L)	08:55	5.29	0.077	21.5	90	1.65	174	10.66	<100
		09:00	5.28	0.078	21.7	70	1.63	174	10.72	<100
PID Reading (ppm): See WL		09:05	5.28	0.078	21.7	55	1.50	174	10.63	<100
Sheet		09:10	5.28	0.078	21.8	55	1.47	174	10.63	<100
		09:15	5.28	0.078	21.9	50	1.43	172	10.63	<100
Well Casing Diameter: 1"		09:30	5.28	0.078	22.0	26	1.41	177	10.65	<100
Total Well Depth: 17.62		09:45	5.27	0.079	22.0	12	1.52	181	10.62	<100
Static Water Level: 9.61		0950	5.27	0.079	22.1	12	1.49	181	10.61	<100
Tube Intake Depth: 15.0		0955	5.28	0.078	22.1	4.1	1.47	181	10.59	<100
Well Volume: 1.24 L		10:00	5.28	0.078	22.1	2.9	1.43	181	10.56	<100
Tubing/Cell Volume: ~350										
Start Purge (hr): 07:40										
End Purge (hr): 10:00										
Total Purge Time (min): ~105										
Total Vol. Purged: ~10 L										

Horiba Flashing Error 08:30

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 10:05	~~Cloudy~~ Clear	5.28	0.078	22.1	2.9	1.43	181	10.56	<100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe + Mn	6000/7000	HNO_3	500 ml	~~1-liter~~	HDPE	1
Ions + Alkalinity	300.0A / 310.1	None	1	1-Liter	HDPE	1

ADDITIONAL INFORMATION

Comments:
17.62
9.61
8.01 x 0.155 = 1.24 L
+ 0.35
1.59 L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): J. Johnson

* Well also gets NA Field Kit Tests + Lt. Hydrocarbons, Perm. Gases + Hydrogen
DO = 1.5 using Range 1-12 mg/L

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207

Sample Location: OLD-OU2-33B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make/Model: Horiba U-22
Serial Nos.: 70052020

Sample ID No.: NTCOU2G33B08

Sampled By: JMF

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	0740	5.05	.117	21.43	13.0	2.64		9.90	100
1	0.041	0.155	0750	5.02	.118	21.62	6.94	3.18		9.90	100
2	0.163	0.617	0755	5.00	.115	21.53	5.87	11.68		9.90	100
4	0.653	2.47	0830	4.95	.122	22.23	5.00	5.72		9.92	100
6	1.469	5.56	0835	4.96	.119	22.40	4.06	5.55		9.92	100
8	2.611	9.88	0840	4.96	.118	22.40	3.52	5.64		9.92	100
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm)

Well Casing Diameter: 1"
Total Well Depth: 33.35
Static Water Level: 9.78
Tube Intake Depth: 29.0'
Well Volume: 3.65 L
Tubing/Cell Volume: 400 ml

Start Purge (hr): 0720
End Purge (hr): 0840
Total Purge Time (min): 80
Total Vol. Purged: 5000 ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 0900	Clear	4.96	.118	22.40	3.52	5.64	-158	9.92	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ NA Ions	~~6000/7000~~	None ~~HNO3~~	1	1-liter	HDPE	✓
Fe & Mn (6010B)		HNO3	1	500 ml	HDPE	✓

ADDITIONAL INFORMATION

Comments:
0755 - Horiba begins reading very high DO. Recalibrate and try again

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.: NTCOU2GD500008

Signature(s): JMF

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-~~61~~ 34A

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2634A08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1040	5.28	0.257	23.3	60	5.09	130	6.63	100
1	0.041 / 0.155	1045	5.28	0.256	23.3	65	1.94	126	6.63	100
2	0.163 / 0.617	1048	5.15	0.244	23.8	70	3.10	134	6.63	100
4	0.653 / 2.47	1051	5.13	0.252	23.9	40	1.07	132	6.63	100
6	1.469 / 5.56	1055	5.12	0.252	24.0	32	0.99	133	6.63	100
8	2.611 / 9.88	1100	5.12	0.252	24.0	16	0.93	133	6.63	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 1"
Total Well Depth: 13.14
Static Water Level: 6.61
Tube Intake Depth: 9.87
Well Volume: 1.01 L
Tubing/Cell Volume: 494 ml

Start Purge (hr): 1035
End Purge (hr): 1100
Total Purge Time (min): 25
Total Vol. Purged: 2.5 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1105	Clear	5.12	0.252	24.0	16	0.93	133	6.63	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 119 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-35B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: Horiba U-22

Serial Nos.: 922001

Sample ID No.: NTCOU2G35B08

Sampled By: SRM

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1015	5.49	0.130	23.0	16.0	3.01	-71	6.29	100
1	0.041 / 0.155	1020	5.57	0.128	23.3	11.0	0.68	-108	6.29	100
2	0.163 / 0.617	1025	5.59	0.130	23.4	7.8	0.58	-115	6.29	100
4	0.653 / 2.47	1030	5.60	0.129	23.5	6.4	0.50	-119	6.29	100
6	1.469 / 5.56									
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 1"
Total Well Depth: 41.78
Static Water Level: 6.04
Tube Intake Depth: 39.28
Well Volume: 5.53 L
Tubing/Cell Volume: 690 ml

Start Purge (hr): 1010
End Purge (hr): 1030
Total Purge Time (min): 20
Total Vol. Purged: 2.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1035	Clear	5.60	0.129	23.5	6.4	0.50	-119	6.29	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 315
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGuire

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: NTC Orlando
Project No: N4207/MG005A140

Sample Location: OLD-OU2-36A

[ ] Domestic Well Data

Flow-Thru Cell Make/Model: Horiba U-22

Sample ID No.: NTCOU2636A08

[X] Monitoring Well Data

Serial Nos.: 922001

Sampled By: SRM

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	~~Gals.~~ ~~Liters~~ per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	~~0.01~~ ~~0.038~~	1620	5.25	0.219	23.5	280	9.10	20	8.45	100
1	~~0.041~~ ~~0.155~~	1625	5.44	0.203	23.2	140	0.48	-52	8.45	100
2	~~0.163~~ ~~0.617~~	1630	5.47	0.191	23.2	90	0.20	-63	8.45	100
4	~~0.653~~ ~~2.47~~	1635	5.45	0.187	23.4	75	0.20	-67	8.45	100
6	~~1.469~~ ~~5.56~~	1640	5.44	0.190	23.5	60	0.16	-69	8.45	100
8	~~2.611~~ ~~9.88~~	1645	5.47	0.183	23.6	50	0.17	-75	8.45	100
10	~~4.08~~ ~~15.44~~	1650	5.48	0.181	23.4	42	0.17	-79	8.45	100
	[1 gal. = 3.785 L]	1655	5.49	0.179	23.1	37	0.18	-84	8.45	100
		1700	5.52	0.178	23.0	26	0.18	-88	8.45	100
PID Reading (ppm)		1705	5.55	0.177	22.9	16.4	0.18	-88	8.45	100

Well Casing Diameter: 1"
Total Well Depth: 17.45
Static Water Level: 8.35
Tube Intake Depth: 12.52
Well Volume: 1.41 L
Tubing/Cell Volume: 522 ml

Start Purge (hr): 1615
End Purge (hr): 1705
Total Purge Time (min): 50
Total Vol. Purged: 5.0 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1710	Clear	5.55	0.177	22.9	16.4	0.18	-88	8.45	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
~~TAL Metals~~ Fe, Mn	~~6000/7000~~	HNO_3	1	~~1-liter~~	HDPE 500 ml	✓

ADDITIONAL INFORMATION

Comments:
Tubing = 7 ml/ft = 147 ml
Flow Thru Cell = 375 ml

Method:
[X] Peristaltic Pump #407
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA/QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Scott R. McGinn

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/25/03

Project Site Name: Orlando NTC
Project No.: _____

Sample Location: OLD-OU2-37B

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2G37B08

[X] Monitoring Well Data

Sampled By: C Gleaton

Serial Nos.: _____

[ ] Other Well Type: _____

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1346	5.44	0.285	24.72	322	8.38	18	8.80	100
1	0.041	0.155	1351	5.30	0.280	24.32	228	0.89	-27	8.80	100
2	0.163	0.617	1356	5.24	0.268	24.42	91.2	0.94	-37	8.80	100
4	0.653	2.47	1401	5.21	0.262	23.92	48.4	0.72	-44	8.80	100
6	1.469	5.56	1406	5.21	0.262	23.90	24.5	0.63	-52	8.80	100
8	2.611	9.88	1411	5.20	0.260	23.90	17.7	0.60	-55	8.80	100
10	4.08	15.44	1416	5.19	0.259	23.93	13.0	0.60	-55	8.80	100
	[1 gal. = 3.785 L]		1421	5.19	0.260	23.89	10.7	0.60	-62	8.80	100
			1426	5.19	0.259	23.87	10.7	0.59	-68	8.80	100
PID Reading (ppm): 0.0			1431	5.19	0.258	23.89	8.5	0.59	-65	8.80	100
			1436	5.19	0.258	23.83	8.7	0.58	-70	8.80	100
			1441	5.20	0.258	23.85	8.9	0.59	-65	8.80	100
Well Casing Diameter: 1 inch			1446	5.19	0.258	23.89	8.5	0.58	-63	8.80	100

Total Well Depth: 35.1
Static Water Level: 7.56
Tube Intake Depth: 32.5
Well Volume: 4.2 L
Tubing/Cell Volume: 640

Start Purge (hr): 1339
End Purge (hr): 1446
Total Purge Time (min): 67
Total Vol. Purged: 6.7 L

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/25/03									
Time 1500	Clear	5.19	0.258	23.89	8.5	0.58	-63	8.80	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	✓
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Diss Fe IVn		HNO_3	1	500 ml	HDPE	✓

ADDITIONAL INFORMATION

Comments:

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: —

Duplicate ID No.: —

Signature(s): C. Gleaton

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Page ____ of ____

Project Site Name NTC Orlando
Project No. N4207

Sample Location: OLD-002-DP01A

[ ] Domestic Well Data

Flow-Thru Cell, Make\Model: Horiba U-22

Sample ID No.: NTC002GP01A08

[X] Monitoring Well Data

Sampled By: JZ

Serial Nos.: ____

[ ] Other Well Type: ____

C-O-C No.: ____

PURGING DATA

Casing Size (in.)	Gals / Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01 / 0.038	1140	5.11	0.235	24.47	1.86	0.32	-137	1.13	150
1	0.041 / 0.155	1145	5.12	0.234	24.56	1.32	0.23	-143	1.13	150
2	0.163 / 0.617	1150	5.12	0.234	24.48	0.27	0.31	-149	1.13	150
4	0.653 / 2.47	1155	5.12	0.234	24.69	1.23	0.18	-155	1.13	150
6	1.469 / 5.56	1200	5.13	0.233	24.66	0.89	0.28	-160	1.13	150
8	2.611 / 9.88	1205	5.12	0.233	24.79	1.14	0.24	-166	1.13	150
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm) 0.0

Well Casing Diameter: 1.5'
Total Well Depth: 7.42
Static Water Level: 1.19
Tube Intake Depth: 6'
Well Volume 2169 mL
Tubing/Cell Volume 480 mL

Start Purge (hr) 1125
End Purge (hr) 1205
Total Purge Time (min): 40
Total Vol. Purged 6000 mL

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1205	Clear	5.12	0.233	24.79	1.14	0.24	-166	1.13	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
~~SVOCs/PAHs~~	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Fe/Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

0.092 gal/ft × 6.23' = 0.573 gal = 2.169 L

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): [signature]

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC ORLANDO
Project No: N4207

Sample Location: OLD-OU2-DP01B

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2GP1B08

[X] Monitoring Well Data

Sampled By: BR

Serial Nos.:

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1145	5.15	0.078	24.3	39.9	0.8	-113	1.47	100
1	0.041	0.155	1150	5.16	0.078	24.3	44.0	0.5	-115	1.47	100
2	0.163	0.617	1200	5.18	0.079	24.6	30.8	0.5	-120	1.47	100
4	0.653	2.47	1205	5.25	0.079	24.1	30.1	0.7	-126	1.47	100
6	1.469	5.56	1210	5.29	0.079	24.4	26.4	0.7	-128	1.47	100
8	2.611	9.88	1215	5.34	0.079	24.8	24.5	0.6	-129	1.47	100
10	4.08	15.44	1220	5.39	0.078	24.7	19.98	0.5	-134	1.47	100
	[1 gal. = 3.785 L]		1225	5.39	0.078	24.6	18.7	0.5	-135	1.47	100
			1230	5.39	0.078	24.5	16.2	0.4	-136	1.47	100

PID Reading (ppm): 0.0

Well Casing Diameter: 1"
Total Well Depth: 25.0'
Static Water Level: 1.24'
Tube Intake Depth: 22.5
Well Volume: 3683 mL
Tubing/Cell Volume: 550 mL

Start Purge (hr): 1125
End Purge (hr): 1230
Total Purge Time (min): 65
Total Vol. Purged: 6500

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1230	Clear	5.39	0.078	24.5	16.2	0.4	-136	1.47	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
TCL VOCs	8260B	HCl	3	40 ml	glass vials	3
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
Herbicides	8151	None	2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	
Diss Fe and Mn	6010B	HNO_3	1	500 mL	Poly	1

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Br Cole

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Project Site Name: NTC Orlando
Project No: N4207

Sample Location: OLD-OU2-DP02A

[ ] Domestic Well Data

Flow-Thru Cell Make\Model: Horiba U-22

Sample ID No.: NTCOU2GP2A08

[X] Monitoring Well Data

Sampled By: JZ

Serial Nos.:

[ ] Other Well Type:

C-O-C No.:

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1540	4.94	0.100	24.06	6.85	0.17	-164	1.94	150
1	0.041	0.155	1545	4.71	0.101	24.10	5.50	0.05	-171	1.94	150
2	0.163	0.617	1550	4.59	0.103	24.31	3.77	0.16	-178	1.94	150
4	0.653	2.47	1559	4.58	0.103	23.86	2.94	0.11	-188	1.94	150
6	1.469	5.56	1600	4.63	0.103	23.91	2.50	0.07	-198	1.94	150
8	2.611	9.88	1605	4.74	0.102	23.14	2.07	0.02	-213	1.94	150
10	4.08	15.44	1610	4.86	0.103	23.88	1.70	0.03	-222	1.94	150
	[1 gal. = 3.785 L]		1615	4.98	0.102	23.84	1.35	0.04	-232	1.94	150
			1620	5.05	0.102	23.83	1.62	0.02	-239	1.94	150
PID Reading (ppm) 0.0			1625	5.08	0.102	23.85	1.23	0.01	-244	1.94	150
			1630	5.10	0.102	23.89	1.40	Ø	-247	1.94	150

Well Casing Diameter: 1.5"
Total Well Depth: 8.77
Static Water Level: 1.96
Tube Intake Depth: 6.27'
Well Volume: 2371 mL
Tubing/Cell Volume: 478 mL

Start Purge (hr): 1525
End Purge (hr): 1630
Total Purge Time (min): 65
Total Vol. Purged:

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1630	Clear	5.10	0.102	23.89	1.40	Ø	-247	1.94	150

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements	Collected
TCL VOCs	8260B	HCl	3 40 ml glass vials	3
SVOCs/PAHs Alkalinity	~~8270C/8310~~	None	1 ~~2 500 mL 1-liter~~ ~~amber~~ glass Poly	1
Pesticides	8081A	None	2 1-liter amber glass	
Herbicides	8151	None	2 1-liter amber glass	
TAL ~~Metals~~ Fe, Mn	6010B ~~6000/7000~~	HNO_3	1 500 mL ~~1-liter~~ ~~HDPE~~ Poly	1
NA Ions	EPA 300	None	1 500 mL Poly	1

ADDITIONAL INFORMATION

Comments:
0.092 gal/ft × 6.81 ft = 0.627 gal = 2371 mL

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[X] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): Jeffrey L. Zimmerly

Tetra Tech NUS
Groundwater Purging and Sampling Log

Date 3/26/03

Page 1 of 1

Project Site Name: NTC ORLANDO
Project No: N4207

Sample Location: OLD-OU2-DP02B

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell Make\Model: HORIBA U-22

Serial Nos.: _____

Sample ID No.: NTCOU2GP2B08

Sampled By: BC

C-O-C No.: _____

PURGING DATA

Casing Size (in.)	Gals. per ft. of Water	Liters per ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
0.5	0.01	0.038	1540	5.16	0.079	24.0	22.8	1.0	-70	4.45	100
1	0.041	0.155	1545	5.17	0.079	24.1	14.6	0.9	-76	4.45	100
2	0.163	0.617	1550	5.17	0.079	24.0	13.8	1.1	-77	4.45	100
4	0.653	2.47	1555	5.17	0.079	24.0	9.65	0.7	-81	4.45	100
6	1.469	5.56	1600	5.18	0.079	23.9	9.12	0.5	-82	4.45	100
8	2.611	9.88									
10	4.08	15.44									
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0.0

Well Casing Diameter: 1-inch
Total Well Depth: 25.00'
Static Water Level: 1.94
Tube Intake Depth: 22.5 ft
Well Volume: 3574 mL
Tubing/Cell Volume: 571

Start Purge (hr): 1515
End Purge (hr): 1600
Total Purge Time (min): 45
Total Vol. Purged: 4500 ml

WATER QUALITY SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date 3/26/03									
Time 1600	Clear	5.18	0.079	23.9	9.12	0.5	-82	4.45	100

ANALYSES INFORMATION

Analysis		Preservative	Container Requirements			Collected
✓ TCL VOCs	8260B	HCl	3	40 ml	glass vials	6
SVOCs/PAHs	8270C/8310	None	2	1-liter	amber glass	
Pesticides	8081A	None	2	1-liter	amber glass	
~~Herbicides~~ Alkalinity	~~8151~~ 310.1	None	1500 ml	~~2~~ ~~1-liter~~	~~amber glass~~ poly	2
~~TAL Metals~~ NA Ions	300.0 ~~6000/7000~~	None ~~HNO_3~~	1	1-liter	HDPE	2
✓ Fe and Mn	6010B	HNO_3	1	500 mL	poly	2

ADDITIONAL INFORMATION

Comments:

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [X] Polyethylene
- [ ] Teflon
- [ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.: NTCOU2GD400008

Signature(s): Brian Cole

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: NTC orlando
Project No.: OU2

[] Stream
[] Spring
[] Pond
[] Lake
[] Other: CANAL
[] QA Sample Type:

Sample ID No.: NTCOU2SW2908
Sample Location: SW29
Sampled By: J. Johnson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3/20/03								
Time: 1516								
Depth: ~1 Ft	Murky Brown	6.29	0.101	26.5	230	8.50	0	
Method:								

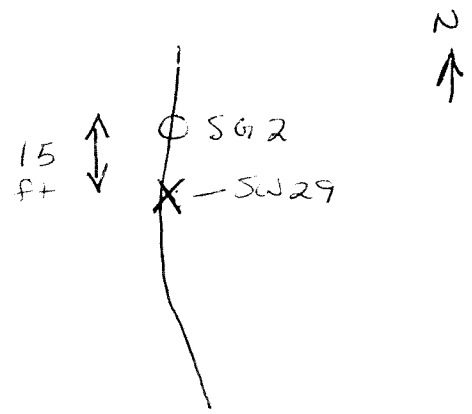
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	3 40 ml VOA	3
Fe + Mn	HNO_3	1 500 ml HDPE	1
Chloride	None	1 500 ml HDPE	1

OBSERVATIONS / NOTES:

Vegetation is heavily matted. Danger of falling through is of concern

MAP:



Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: NTC Orlando
Project No.: OU2

[] Stream
[] Spring
[] Pond
[] Lake
[] Other: Canal
[] QA Sample Type:

Sample ID No.: NTCOU2SW3008
Sample Location: SW30
Sampled By: J. Johnson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3-25-03								
Time: 15:35								
Depth: ~1 Ft	Light Brown	6.37	8.02	24.7	0	9.33	0.4	
Method:								

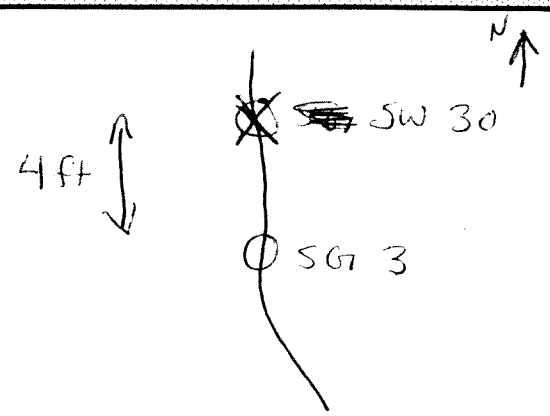
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	40 ml VOAs	3
Fe + Mn	HNO3	500 ml HDPE	1
Chloride	None	500 ml HDPE	1

OBSERVATIONS / NOTES:

Vegetation is very thick. Boggy matting is unstable

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: OU2 NTC Orlando
Project No.:

[] Stream
[] Spring
[] Pond
[] Lake
[] Other: Canal
[] QA Sample Type:

Sample ID No.: NTCOU2SW3108
Sample Location: SW31
Sampled By: J. Johnson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3-25-03								
Time: 14:10								
Depth: ~ 2 Ft								
Method:	Clear	6.45	0.154	24.4	0	8.57	0	

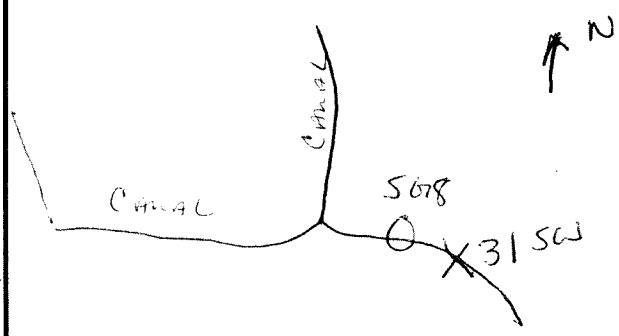
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	40 ml VOA	3
Fe + Mn	HNO_3	500 ml HDPE	1
Chloride	None	500 ml HDPE	1

OBSERVATIONS / NOTES:

Water low in this Area
Sediments Are thick + soft
Vegetation thick + Matted.
Danger of falling through.

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: NTC Orlando
Project No.: OU2

[] Stream
[] Spring
[] Pond
[] Lake
[] Other: Canal
[] QA Sample Type:

Sample ID No.: NTCOU2 SW 3608
Sample Location: SW 36
Sampled By: J. Johnson
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other
Date: 3-25-03								
Time: 1610								
Depth: ~2 Ft	Clear	6.82	0.147	26.8	0	8.99	0	
Method:								

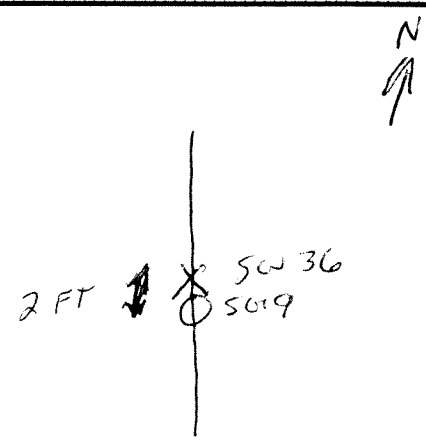
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL	40 ml VO	3
Fe + Mn	HNO_3	500 ml HDPE	1
Chloride	None	500 ml HDPE	1

OBSERVATIONS / NOTES:

Water is deep here and canal is about 40 feet wide. Thick vegetation mat is submerged ~ ~~[illegible]~~ it is hard to tell how deep H_2O below is - Took sample ~10 ft from bank because we had no rope.

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NTC Orlando
Project No.: N4207

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Canal
[] QA Sample Type:

Sample ID No.: ~~01~~ NTC0U2SW3208
Sample Location: OLD-OU2-SW32
Sampled By: JZ / BC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 3/26/03								
Time: 0915								
Depth: Surface	clear	6.15	0.213	22.56	2.02	8.65	Ø	145
Method: Grab sample								

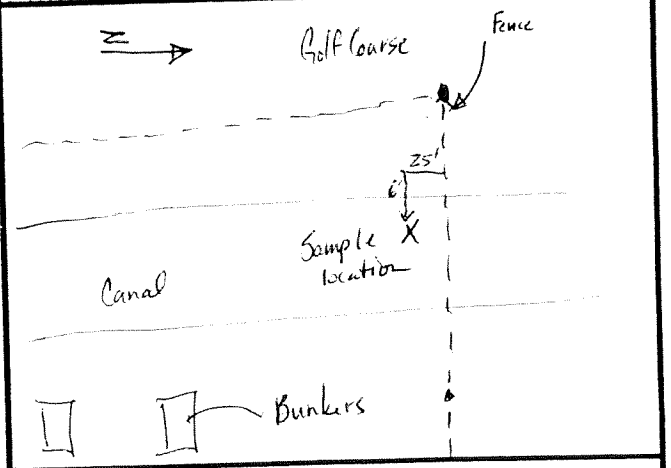
SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs 8260B	HCl	3 40mL glass vials	3
Fe & Mn 6010B	HNO_3	1 500 mL Poly	1
Cl EPA 300	None	1 500 mL Poly	1

OBSERVATIONS / NOTES:

Flow in canal to the south

MAP:



Circle if Applicable:

MS/MSD [illegible] | Duplicate ID No.: [illegible]

Signature(s): [illegible]

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NTC Orlando
Project No.: N4207

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Canal
[] QA Sample Type:

Sample ID No.: NTC042SW3308
Sample Location: OLD-042-SW33
Sampled By: JZ BC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

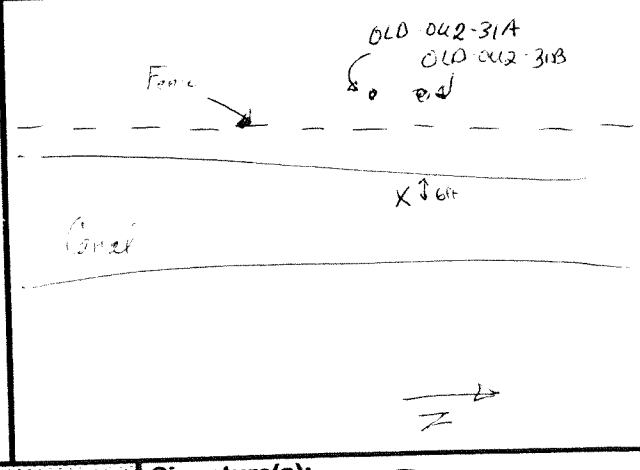
	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 3/26/03								
Time: 1510								
Depth: Surface water	Clear	6.64	0.161	23.8	4.81	3.72	Q	-116
Method: Grab sample								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs 8260B	HCl	3 40mL Glass Vials	6
Fe & Mn 6010B	HNO_3	1 500mL Poly	2
Cl EPA 300	None	1 500mL Poly	2

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD

Duplicate ID No.: JZ

Signature(s): Jeffrey L Zimmerman, Brian Cole

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NTC Orlando
Project No.: N4207

Sample ID No.: NTCOU2SW3408
Sample Location: OLD-OU2-SW34
Sampled By: JZ / BC
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Canal
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

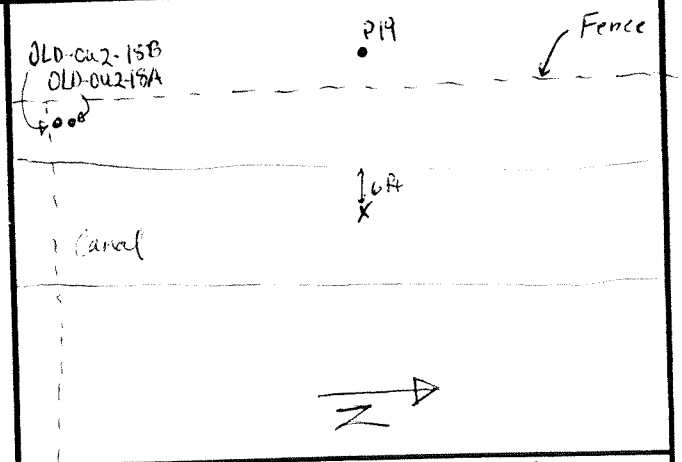
	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Date: 3/26/03								
Time: 1030								
Depth: Surface								
Method: Grab Sample	Clear	6.71	0.177	23.83	0.84	9.08	Ø	91

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs 8260B	HCl	3 40mL Glass vials	3
Fe & Mn 6010B	HNO_3	1 500mL Poly	1
Cl EPA 300	None	1 500mL Poly	1

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:
~~MS~~ ~~MSD~~	~~FB~~

Signature(s): Jeffrey P. Zywood, Brian Cole

Tetra Tech NUS, Inc.

SURFACE WATER SAMPLE LOG SHEET

Page___ of ___

Project Site Name: NTC Orlando
Project No.: N4207

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Canal
[] QA Sample Type:

Sample ID No.: NTCOU2SW3508
Sample Location: OLD-OU2-SW35
Sampled By: JZ BC
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 3/26/03
Time: 1710
Depth: Surface water
Method: Grab Sample

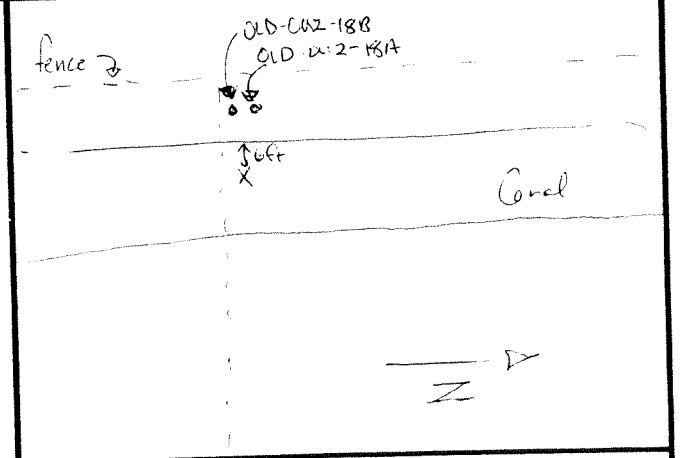
Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Clear/yellow	6.75	0.172	24.38	4.00	5.14	0	65

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC's	HCl	3 40mL Glass vials	~~3~~ 6
Fe & Mn 6010B	HNO_3	1 500mL Poly	2
Cl EPA 300	None	1 500mL Poly	2

OBSERVATIONS / NOTES:

MAP:



Circle if Applicable:

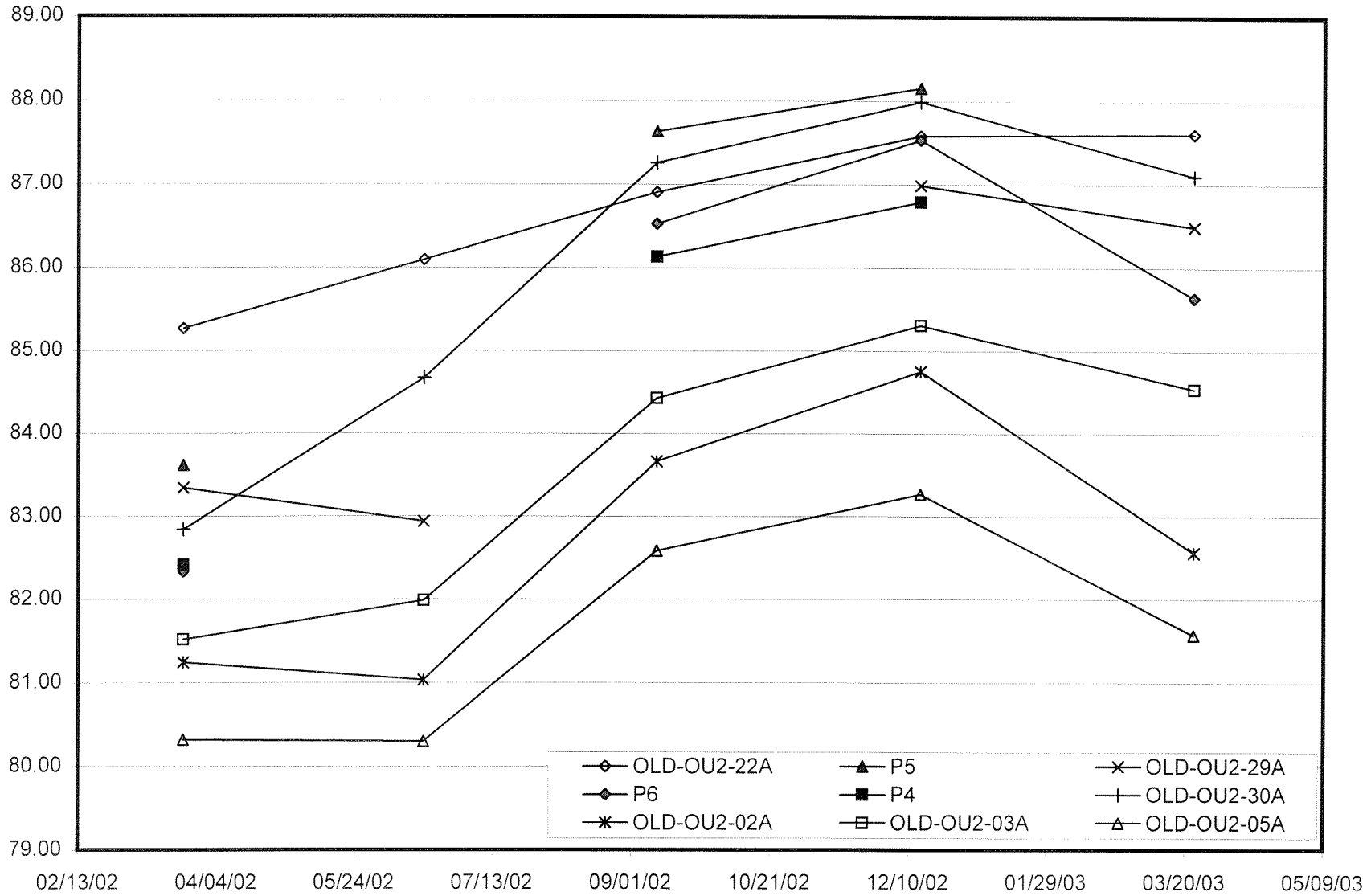
MS/MSD	Duplicate ID No.:
~~MS~~	NTCOU2SWD600008

Signature(s): Jeffrey L. Spencer, Brian Cole

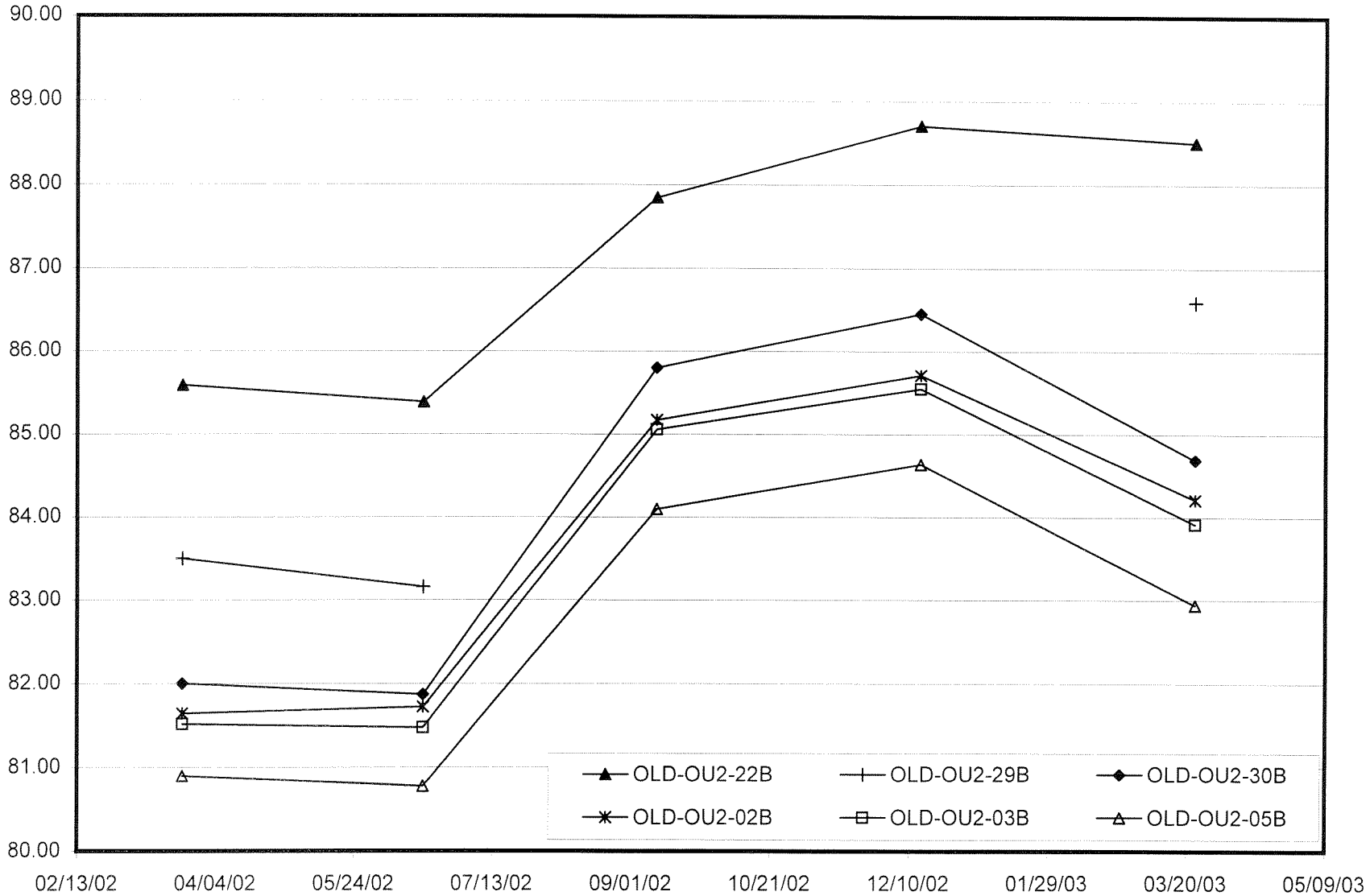
APPENDIX B

HYDROGRAPHS

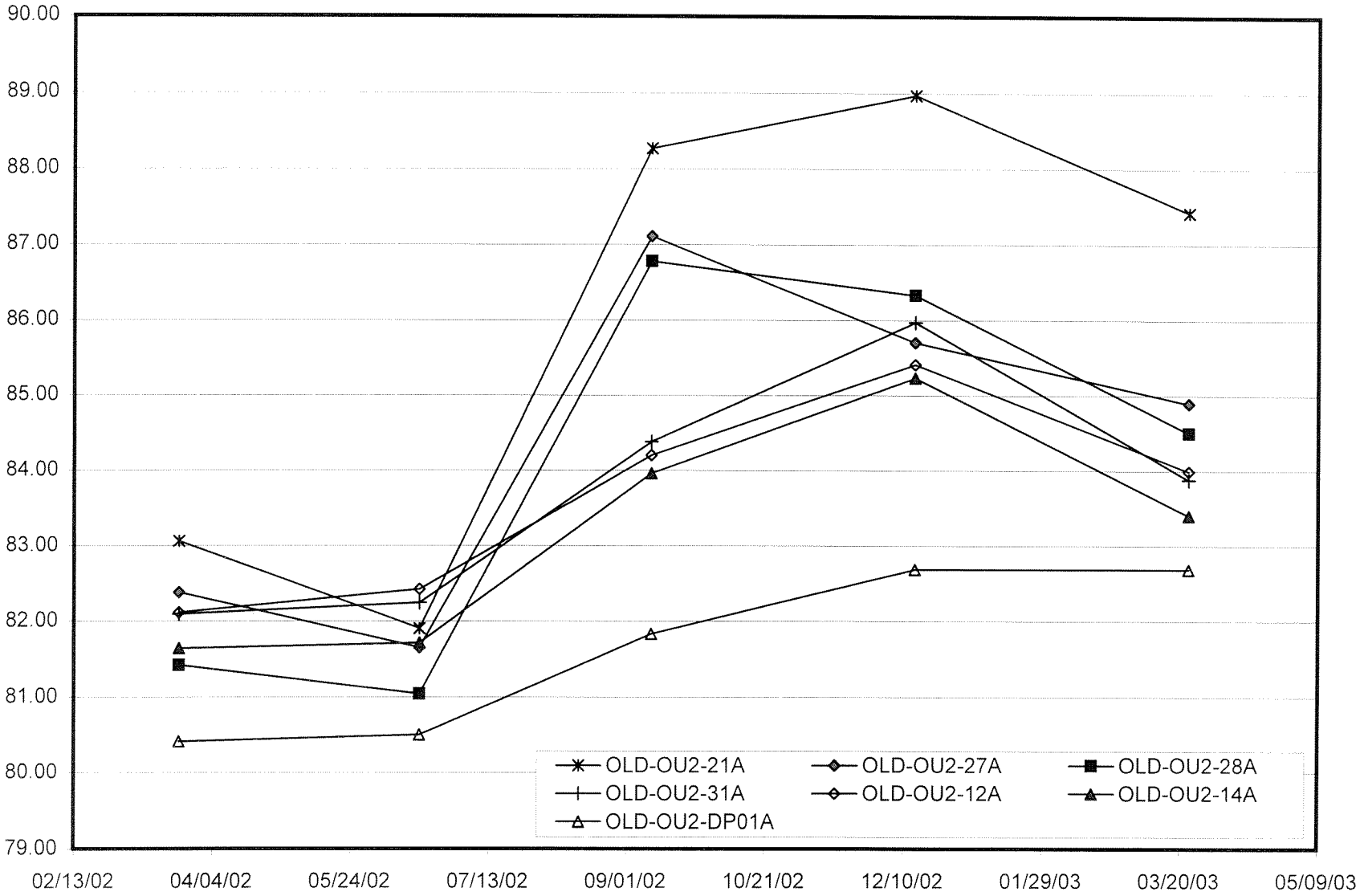
Well Hydrographs (2002-2003)
OU 2, Northern Plume Area
Shallow Depth (A) Wells



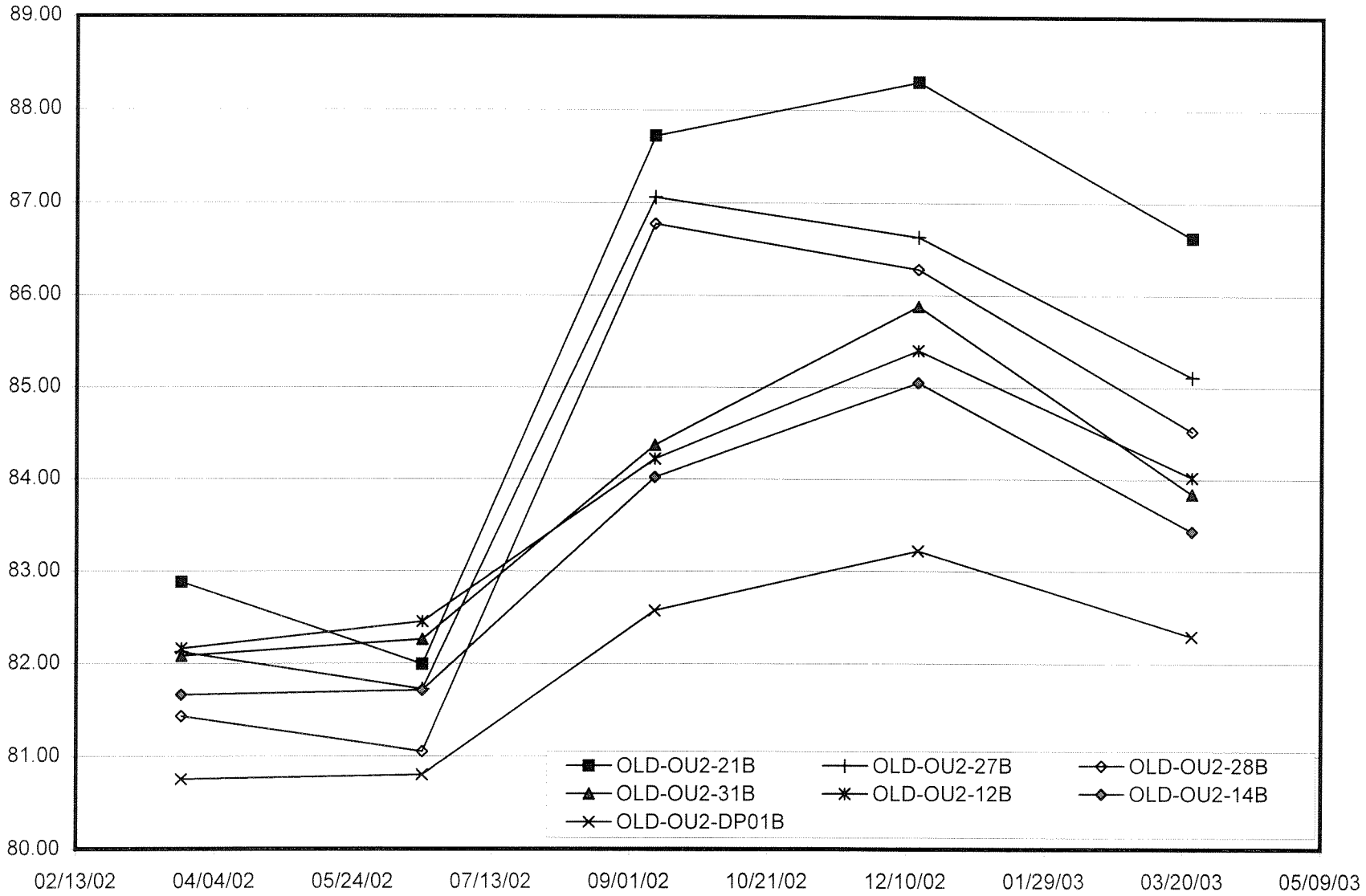
Well Hydrographs (2002-2003)
OU 2, Northern Plume Area
Intermediate Depth (B) Wells



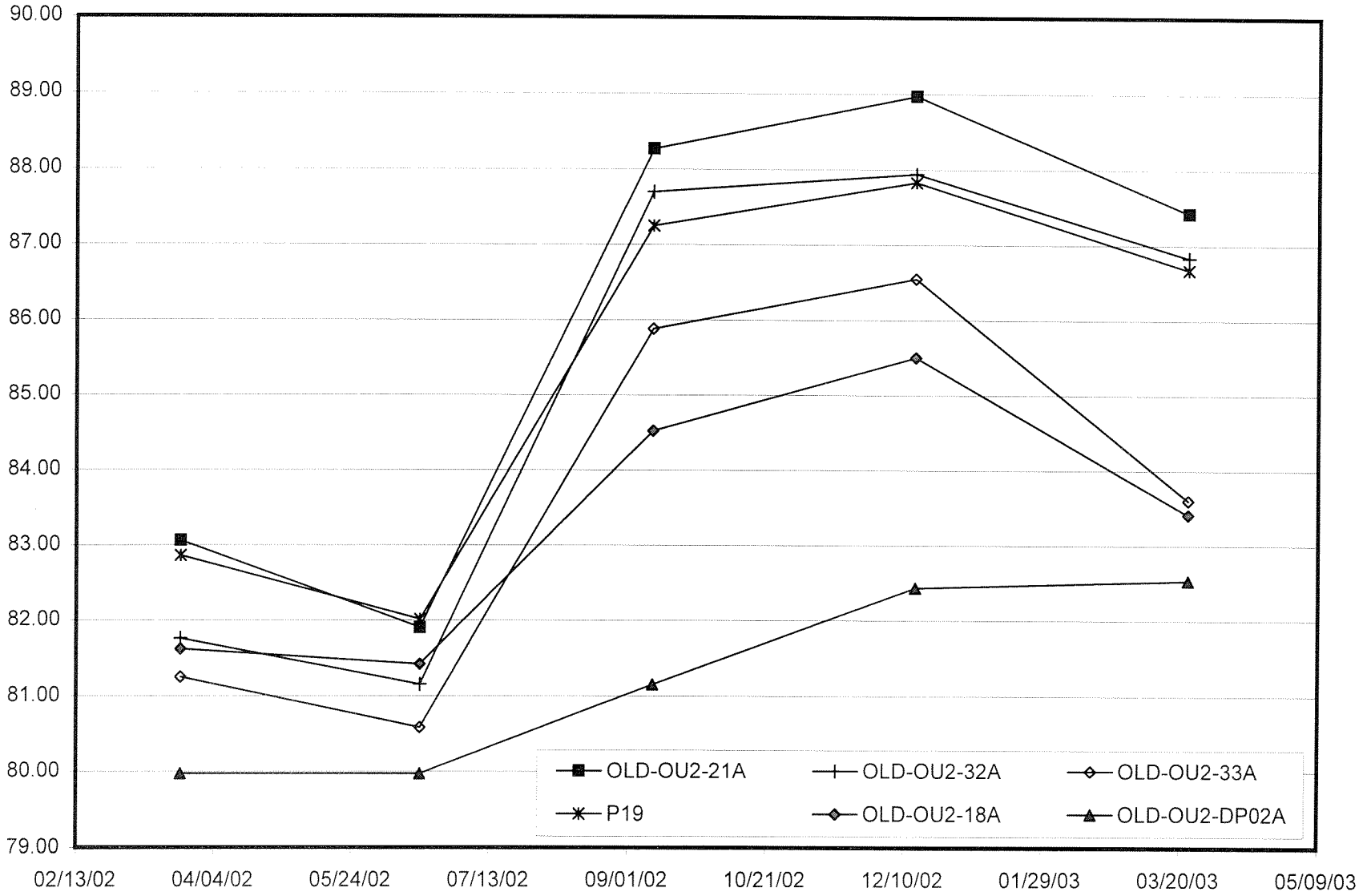
Well Hydrographs (2002-2003)
OU 2, Southern Plume (North) Area
Shallow Depth (A) Wells



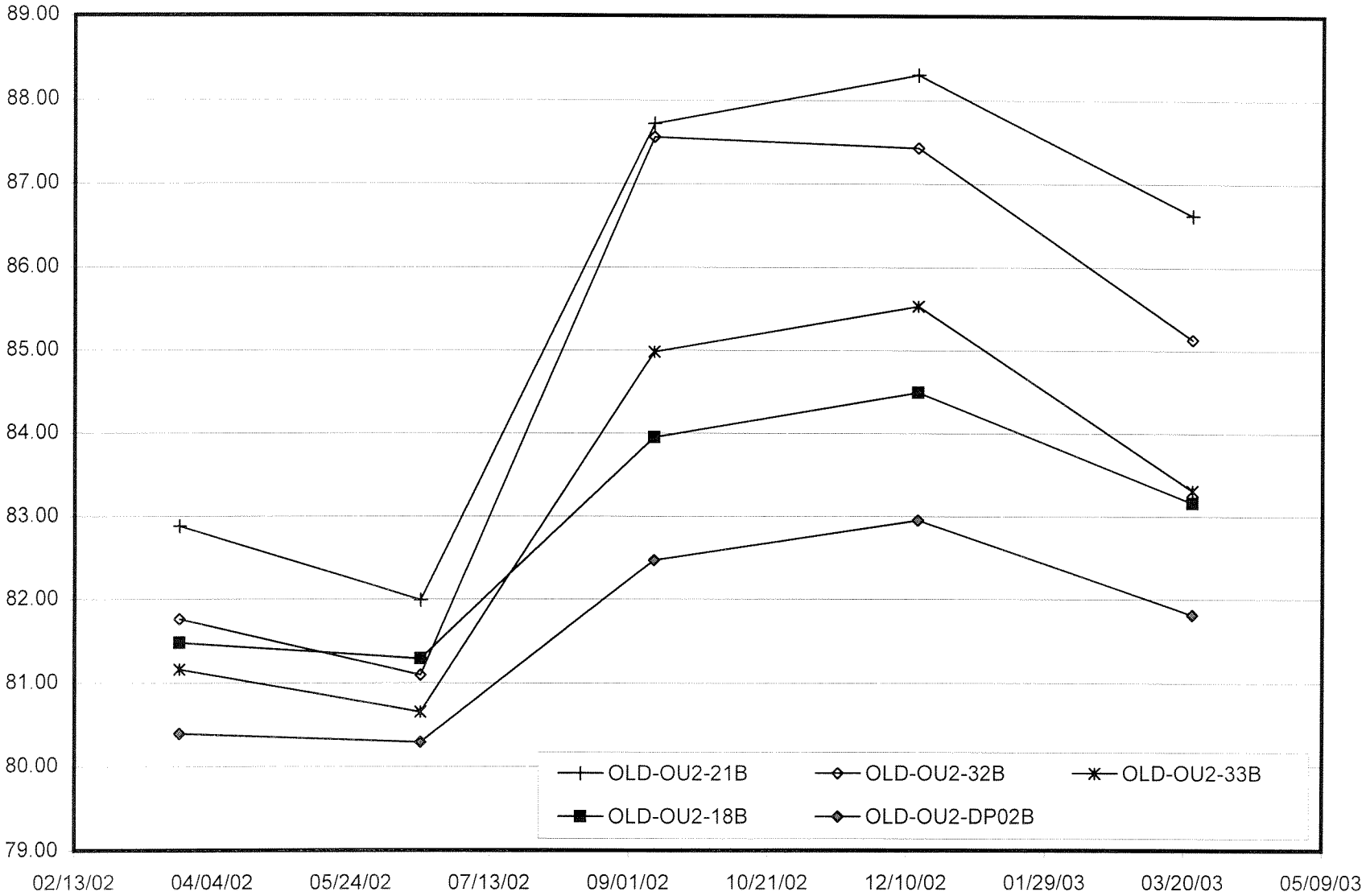
Well Hydrographs (2002-2003)
OU 2, Southern Plume (North) Area
Intermediate Depth (B) Wells



Well Hydrographs (2002-2003)
OU 2, Southern Plume (South) Area
Shallow Depth (A) Wells



Well Hydrographs (2002-2003)
OU 2, Southern Plume (South) Area
Intermediate Depth (B) Wells



Well Number	Well Type	Screen Interval (BGS)	TOC ELEVATION[a] (AMSL)	Water Elevation on 4/13/98[a]	Water Elevation on 4/29/98[a]	Water Elevation on 8/4/98[a]	Water Elevation on 12/11/01[a]	Water Elevation on 3/23/02[a]	Water Elevation on 6/18/02[a]	Water Elevation on 9/10/02[a][c]	Water Elevation on 12/14/02[a]	Water Elevation on 3/24/03[a]
				04/13/98	04/29/98	08/04/98	12/11/01	03/23/02	06/18/02	09/10/02	12/14/02	03/23/03
North Plume - Shallow Wells												
P4	P	5-15	87.40	85.66	84.73	85.04		82.41		86.13	86.79	
P5	P	7-17	92.50	86.94	86.08	85.73		83.62		87.64	88.16	
P6	P	7-17	93.14	85.72	84.96	84.91		82.34		86.53	87.54	85.64
OLD-OU2-02A	2" well	7-17	91.55			83.63	81.79	81.24	81.03	83.66	84.75	82.56
OLD-OU2-03A	2" well	7-17	89.21			84.06	81.85	81.52	81.99	84.43	85.31	84.54
OLD-OU2-05A	2" well	8-18	91.93			82.72	80.62	80.32	80.30	82.59	83.27	81.57
OLD-OU2-22A	2" well	7-17	91.43			87.56	85.56	85.27	86.10	86.91	87.59	87.61
OLD-OU2-29A	1" well	5-15	**86.99**					83.34	82.94		86.99	86.49
OLD-OU2-30A	1" well	5-15	**88.68**					82.84	84.67	87.26	87.99	87.10
North Plume - Intermediate Wells												
OLD-OU2-02B	2" well	27-32	91.77			84.42	82.22	81.64	81.72	85.17	85.71	84.21
OLD-OU2-03B	2" well	27-32	89.17			84.26	82.11	81.52	81.48	85.06	85.55	83.915
OLD-OU2-05B	2" well	41-46	92.05			83.33	81.39	80.90	80.78	84.10	84.64	82.94
OLD-OU2-22B	2" well	27-32	91.44			87.52	85.79	85.59	85.39	87.85	88.71	88.51
OLD-OU2-29B	1" well	25-30	86.79					83.50	83.16			86.59
OLD-OU2-30B	1" well	25-30	88.31					82.00	81.87	85.80	86.45	84.69
South Plume (north) - Shallow Wells												
OLD-OU2-12A	2" well	5-15	90.54			84.12	82.29	82.11	82.42	84.20	85.41	83.99
OLD-OU2-14A	2" well	5-15	90.10			83.70	81.85	81.64	81.71	83.96	85.23	83.40
OLD-OU2-21A	2" well	7-17	93.79			83.42	84.45	83.06	81.90	88.27	88.97	87.42
OLD-OU2-27A	2" well	6-16	95.31				83.96	82.38	81.65	87.11	85.70	84.89
OLD-OU2-28A	2" well	6-16	94.53				82.32	81.42	81.04	86.78	86.33	84.50
OLD-OU2-31A	1" well	5-15	**93.81**					82.09	82.24	84.38	85.97	83.88
OLD-OU2-DP01A	1 1/4" well	4-8	82.68				80.52	80.41	80.50	81.83	82.68	82.68
South Plume (north) - Intermediate Wells												
OLD-OU2-12B	2" well	30-35	90.40				82.30	82.16	82.45	84.22	85.40	84.02
OLD-OU2-14B	2" well	29-34	89.98			83.72	81.88	81.66	81.71	84.02	85.05	83.43
OLD-OU2-21B	2" well	28-33	93.93			83.57	84.13	82.88	81.99	87.72	88.30	86.62
OLD-OU2-27B	2" well	27-32	95.31				83.23	82.12	81.72	87.06	86.63	85.11

OLD-OU2-28B	2" well	27-32	94.49				82.32	81.43	81.05	86.77	86.28	84.52
OLD-OU2-31B	1" well	25-30	**93.53**					82.08	82.26	84.37	85.88	83.84
OLD-OU2-DP01B	1" well	25-30	83.42				80.92	80.75	80.80	82.57	83.22	82.29

South Plume (south) - Shallow Wells

P19	P	7-17	91.82	85.98	85.18	84.20		82.86	82.01	87.25	87.83	86.67
OLD-OU2-18A	2" well	4-14	90.20			82.91	81.75	81.62	81.42	84.52	85.50	83.41
OLD-OU2-21A	2" well	7-17	93.79			83.42	84.45	83.06	81.90	88.27	88.97	87.42
OLD-OU2-32A	1" well	5-15	**93.94**					81.76	81.15	87.70	87.94	86.83
OLD-OU2-33A	1" well	5-15	**93.70**					81.25	80.58	85.88	86.55	83.60
OLD-OU2-DP02A	1 1/4" well	4-8	82.53				79.89	79.97	79.97	81.15	82.43	82.53

South Plume (south) - Intermediate Wells

OLD-OU2-18B	2" well	29-34	89.89			83.10	81.64	81.48	81.29	83.95	84.49	83.16
OLD-OU2-21B	2" well	28-33	93.93			83.57	84.13	82.88	81.99	87.72	88.30	86.62
OLD-OU2-32B	1" well	25-30	**94.06**					81.76	81.09	87.56	87.43	85.13
OLD-OU2-33B	1" well	25-30	**93.42**					81.16	80.65	84.98	85.53	83.31
OLD-OU2-DP02B	1" well	25-30	83.70				80.55	80.39	80.29	82.47	82.95	81.81

Red - well was artersian on date measured; elev. > TOC

Yellow - well not installed or not measured.