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QUARTERLY GROUNDWATER SAMPLING APRIL 2000 OPERABLE UNIT 3 (OU 3) WITH TRANSMITTAL LETTER NTC ORLANDO FL
7/7/2000
TETRA TECH

TETRA TECH NUS, INC.
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0600-A101

July 7, 2000

Commanding Officer
SOUTHNAVFACENGCOM
ATTN: Ms. Barbara Nwokike, Code 1873
P.O. Box 190010
2155 Eagle Drive
North Charleston, SC 29419-9010

Subject: Operable Unit 3 Quarterly Groundwater Sampling, April 2000
McCoy Annex, NTC, Orlando

Dear Ms. Nwokike:

Enclosed are the results from the quarterly groundwater sampling conducted at OU 3 in April 2000. The results for this and previous sampling events, are summarized in the attached tables and figures. Copies of the field log sheets are included in Attachment A.

The next sampling at OU 3 will be completed in July 2000, and the results will be issued in October 2000. If you have any questions please contact me at (865) 220-4730.

Sincerely,

Steven B. McCoy

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

SBM:ckf

Enclosure

c: Mr. Rick Allen, Harding Lawson Associates
Mr. David Grabka, FDEP
Mr. Wayne Hansel, SOUTHNAVFACENGCOM
Ms. Nancy Rodriguez, USEPA Region IV
Mr. Steve Tsangaris, CH2M Hill
Mr. Michael Campbell, Tetra Tech NUS
Mr. Mark Perry, Tetra Tech NUS (unbound)
Ms. Jacque Van Audenhove, Tetra Tech NUS (2)
Ms. Debbie Wroblewski, Tetra Tech NUS (cover letter only)
File/db

GROUNDWATER SAMPLING AT OPERABLE UNIT 3

Trip Dates: April 13-17, 2000

Site Name: Operable Unit 3: Study Areas 8 and 9
Main Base, Naval Training Center, Orlando, Florida

TO Manager: Steve McCoy

Field Team: Bobby Bobo
Roger Franklin
Bob Knight
Cher Morrison
Greg Sisco

Prepared by: Greg Sisco
Renna Warren

1. PURPOSE

Quarterly groundwater sampling was conducted at Operable Unit (OU) 3 (Study Areas 8 and 9) in April 2000. The fieldwork was performed in accordance with the Work Plan for Groundwater Sampling (Tetra Tech NUS, 1999a), and the Project Operations Plan (POP) (ABB-ES, 1997).

2. ACTIVITIES

Tetra Tech NUS mobilized to the field on April 10, 2000, to perform quarterly monitoring at Study Area (SA) 2, SA 52, and OU 3. Work at SA 9 began on April 13, 2000, with a water level survey and groundwater sampling. Work at SA 8 began on April 15, 2000 with installation of three drive-point wells.

Drive-point Well Installation - Three small-diameter, drive-point wells were installed on April 15, 2000 along the shoreline of Lake Baldwin in order to collect groundwater samples from the aquifer where it discharges into the lake. The three drive-point wells, OLD-08-19, OLD-08-20, and OLD-08-21, were located downgradient of existing wells that contained exceedances of the FL GCTLs during previous sampling events (see Figure 1).

The drive-point wells were constructed of 1.25-inch outside diameter, schedule 40 polyvinyl chloride (PVC) pipe. The factory-machined, 0.01-inch slot, PVC screen sections were 4-feet in length and finished with a conical-

shaped drive point. All screen and riser pipe were decontaminated prior to well installation. PVC riser pipe sections were cut to the required length and attached to the screen using PVC glue to provide a water-tight seal. The well pipe was driven into the lake bottom sediments using a hand-held sledge hammer. The top of the screened intervals were driven between 1 to 1.5 feet below the lake sediments. Water depth ranged from approximately 0.3 to 1.5 feet at the drive-point well locations, and 1 to 2 feet of riser pipe were left above the lake surface level.

Well development was not performed in the drive-point wells to reduce the potential for the introduction of fines into the well (no filter pack was installed). However, well purging was performed in order to remove any lake water that may have entered the well during installation.

Water Level Survey - Groundwater levels were measured at SA 8 on April 16, 2000, and at SA 9 on April 13, 2000. Groundwater elevations for this field event and previous events are summarized in Tables 1 and 2 for SA 8 and 9, respectively.

Sampling - Groundwater sampling was conducted on April 13-16, 2000. Sixteen wells (four 2-in wells, three 1½-in drive-point wells, and nine ½-in microwells) at SA 8 and 15 wells (five 2-in wells and ten ½-in microwells) at SA 9 were 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 flow rates ranging from 100 to 150 ml/min until field parameters (temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential) had stabilized. Water levels in the 2-inch wells were continuously monitored to maintain drawdown at less than 0.3 feet. 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 Attachment A.

Of the 16 total groundwater samples from SA 8, eight (OLD-08-08, OLD-08-10, OLD-08-11, OLD-08-15, OLD-08-18, OLD-08-19, OLD-08-20, OLD-08-21) were analyzed for herbicides using SW 846 Method 8141A and Total Analyte List (TAL) metals using SW 846 Method 6010B; the remaining eight were analyzed for TAL metals only. All 15 samples from SA 9 were analyzed for TAL metals using SW846 Method 6010B, pesticides using SW846 Method 8181A, and herbicides using SW846 Method 8141A. Five samples (OLD-09-03, OLD-09-04, OLD-09-12, OLD-09-14, OLD-09-15) were also analyzed for semi-volatile organic compounds (SVOCs) using SW846 Method 8270C and polynuclear aromatic hydrocarbons (PAHs) using SW846 Method 8310. All samples for organic analyses were collected using vacuum jug methods to ensure that sample water did not contact non-Teflon-lined tubing surfaces. All samples were placed in ice-cooled coolers and shipped via overnight delivery to Severn-Trent Laboratories in North Canton, Ohio, for analysis.

3. PROBLEMS ENCOUNTERED

Turbidity readings were greater than 10 NTU in nine wells (OLD-08-02, OLD-08-13, OLD-08-18, OLD-08-19, OLD-08-20, OLD-08-21, OLD-09-02, OLD-09-04 and OLD-09-07). The turbidity in these wells stabilized at a range of 11 to 51.4 NTU. Only wells OLD-09-2, OLD-09-03 and OLD-09-04 exceeded the drawdown goal of 0.3 ft during purging. Micro-well OLD-08-014, located near the Lake Baldwin shoreline, was dry and no sample was collected.

4. RESULTS

Water Level Survey - Groundwater elevation data for SA 8 and 9 are presented in Tables 1 and 2, respectively, and the water table contours for the two sites are presented in Figures 1 and 2, respectively. Groundwater at SA 8 generally flows to the west toward Lake Baldwin. Groundwater at SA 9 shows divergent flow with groundwater north of Trident Lane generally flowing to the northeast toward Lake Baldwin and groundwater in the eastern portion of the site flowing to the southeast. These flow directions are consistent with those reported earlier by Tetra Tech (1999b, 2000a, 2000b) and HLA (1999).

The water levels in the completed drive-point wells were equal to the lake surface elevation. Water quality samples taken from the well and from the lake were field tested, and differences in the pH, dissolved oxygen, and oxidation-reduction potential indicated that lake water had not infiltrated the wells (see table below).

Location	pH	Specific Cond. mS/m	Temp. °C	NTUs	Dissolved Oxygen mg/L	Ox-Red. Potential mV
OLD-08-19	5.88	12	25.3	51.4	0.00	-98
Lake at 19	7.06	17	25.6	37.1	10.14	-24
OLD-08-20	6.50	21.1	21.1	13.5	1.42	-119
Lake at 20	7.58	21.1	21.9	4.8	10.32	-2
OLD-08-21	5.01	9.0	24.0	11.7	0.15	-9
Lake at 21	6.36	18.0	26.4	19.2	8.04	136.0

Data Validation – Qualification of the data was performed using the USEPA Contract Laboratory Program guidelines for inorganic and organic data review (USEPA, 1994 and 1999). The data validation evaluated data completeness, holding time compliance, calibration compliance, laboratory blank contamination, surrogate spike recovery, matrix spike recovery, blank spike recovery, internal standard

response, sample quantitation, and detection limits. The validation process results in qualifiers that are shown with the analyte concentrations in Tables 3, 4, 5, 6, and 7.

Analytical Results – The positive detections for this round of sampling are summarized in Tables 3 and 4. The historical positive detections are compiled in Table 5 and the validated analytical data for the April 2000 sampling event are included as Tables 6 and 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). The distributions of contaminants detected above these criteria are shown on Figures 3 and 4.

At SA 8, arsenic concentrations exceeded the screening criterion in 8 of the 16 wells sampled. The maximum arsenic concentration of 991 μg/L was measured in the duplicate sample from well OLD-08-11. Concentrations of arsenic measured in April increased from the levels measured in January in two wells and decreased in nine wells. The arsenic in well OLD-08-02 decreased significantly from 717 μg/L to 378 μg/L. The arsenic in well OLD-08-06 decreased below the GCTL for the first time since sampling began in 1997. The exceedances at SA 8 are summarized below.

Exceedances at SA 8 – July/August, October 1999, January 2000, and April 2000

Analyte	Screening Criteria (μg/L)	July/August 1999		October 1999		January 2000		April 2000	
		No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)
Primary Exceedances:									
Antimony	6	1	12.2	5	6 – 13.8	0	–	0	–
Arsenic	50	11	99.2 – 609	11	54 – 610	10	73.4 – 823	8	105 – 991
Lead	15	1	34.8	3	28.5 – 151	2	15 – 32	0	–
MCPA	3.5	0	–	0	–	1	68	0	–
MCPP	7	4	99 J – 280 J	1	180J	4	46J – 180J	0	–
Secondary Exceedances:									
Aluminum	4067	2	4300 J – 4310 J	0	–	0	–	0	–
Iron	1227	3	1650 – 5190	3	2150 – 10500	3	1250 – 6320	4	1270 – 2850
Manganese	50	5	68.1 – 338	5	55.4 – 185	3	83.7 – 164	3	64 – 41

At SA 9, arsenic was measured above the screening criterion in 4 of the 15 wells sampled. The maximum arsenic concentration was 266 μg/L in well OLD-09-04. Despite an increase from the maximum of 225 μg/L measured in January 2000, this represents a continued overall decrease in the

maximum concentrations from 650 μg/L measured in October 1999 and 1370 μg/L measured in July/August 1999. The exceedances at SA 9 are summarized below.

Exceedances at SA 9 – July/August, October 1999, January 2000, and April 2000

Analyte	Screening Criteria (μg/L)	July/August 1999		October 1999		January 2000		April 2000	
		No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)	No. of Wells	Concentration Range (μg/L)
Primary Exceedances:									
Aldrin	0.005	0	–	0	–	0	–	1	0.48 J
Antimony	6	1	17.7	0	–	0	–	0	–
Arsenic	50	5	141 – 1370	4	53.8 – 650	3	72.4 – 225	4	50.5 – 266
a-BHC	0.006	1	2.5 J	1	0.39	1	1.4	1	4.2
4,4-DDE	0.1	0	–	0	–	0	–	1	0.76 J
DEHP	6	0	–	0	–	1	8.9 J	0	–
2,4-Dichlorophenol	0.5	1	45/30	1	4.9 J	1	11	1	2.3 J
Lead	0.2	0	–	0	–	2	15 – 32	0	–
Lindane	0.2	1	1.9 J/1.7 J	1	0.46	1	1.5	2	1.3 – 5.7
MCPA	3.5	0	–	3	33 J – 120 J	0	–	0	–
MCPP	7	3	170 J – 910 J	2	74 J – 520	2	32 J – 72 J	0	–
Naphthalene	20	0	–	0	–	0	–	1	21
Secondary Exceedances:									
Aluminum	4067	1	7740 J	0	–	0	–	0	–
Iron	1227	3	1290 – 6350	1	1940	3	1300 – 2220	2	1690 – 1900
Manganese	50	1	79.9	3	56.3 – 134	3	58 – 109	0	–

MCPA/MCPP Reporting and Method Detection Limits – Severn-Trent had taken steps to lower their MCPA and MCPP reporting limits beginning with the January 2000 sampling round. The reporting limits for the earlier July/August 1999 and October 1999 samples were 400 μg/L. Reporting limits for the April 2000 sampling round were 80 μg/L. This is higher than the GCTLs of 3.5 μg/L for MCPA and 7 μg/L for MCPP.

5. REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1995. *Background Sampling Report, Naval Training Center, Orlando, Florida.* Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317, August.

ABB-ES, 1997. *Project Operations Plan for Site Investigations and Remedial Investigations.* Naval Training Center, Orlando, Florida, Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317, August.

FDEP (Florida Department of Environmental Protection), 1999. *Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777*, F.A.C. CEHT/TR-99-01, May 26, 1999.

HLA (Harding Lawson Associates), 1999. *Remedial Investigation and Feasibility Study, Operable Unit 3. Naval Training Center, Orlando, Florida,* Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317/136, June.

NFESC (Naval Facilities Engineering Service Center), 1998. *Navy Installation Restoration Chemical Data Quality Assurance Manual (Interim Guidance Document)*, June.

Tetra Tech NUS, Inc., 1999a. *Work Plan for Groundwater Sampling, Rev. 2.* Document No. R4707995, November 9, 1999.

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Tetra Tech NUS, Inc., 2000b. *Groundwater Sampling at Operable Unit 3.* Document No. R4705008, May 12, 2000.

USEPA, 1994. *USEPA Contract Laboratory Program: National Functional Guidelines for Inorganic Data Review.* EPA/540/R-94/013, Office of Solid Waste and Emergency Response, Washington, D.C., February.

USEPA, 1999. *Contract Laboratory Program: National Functional Guidelines for Organic Data Review.* EPA/540/R-99/008, Office of Solid Waste and Emergency Response, Washington, D.C., October.

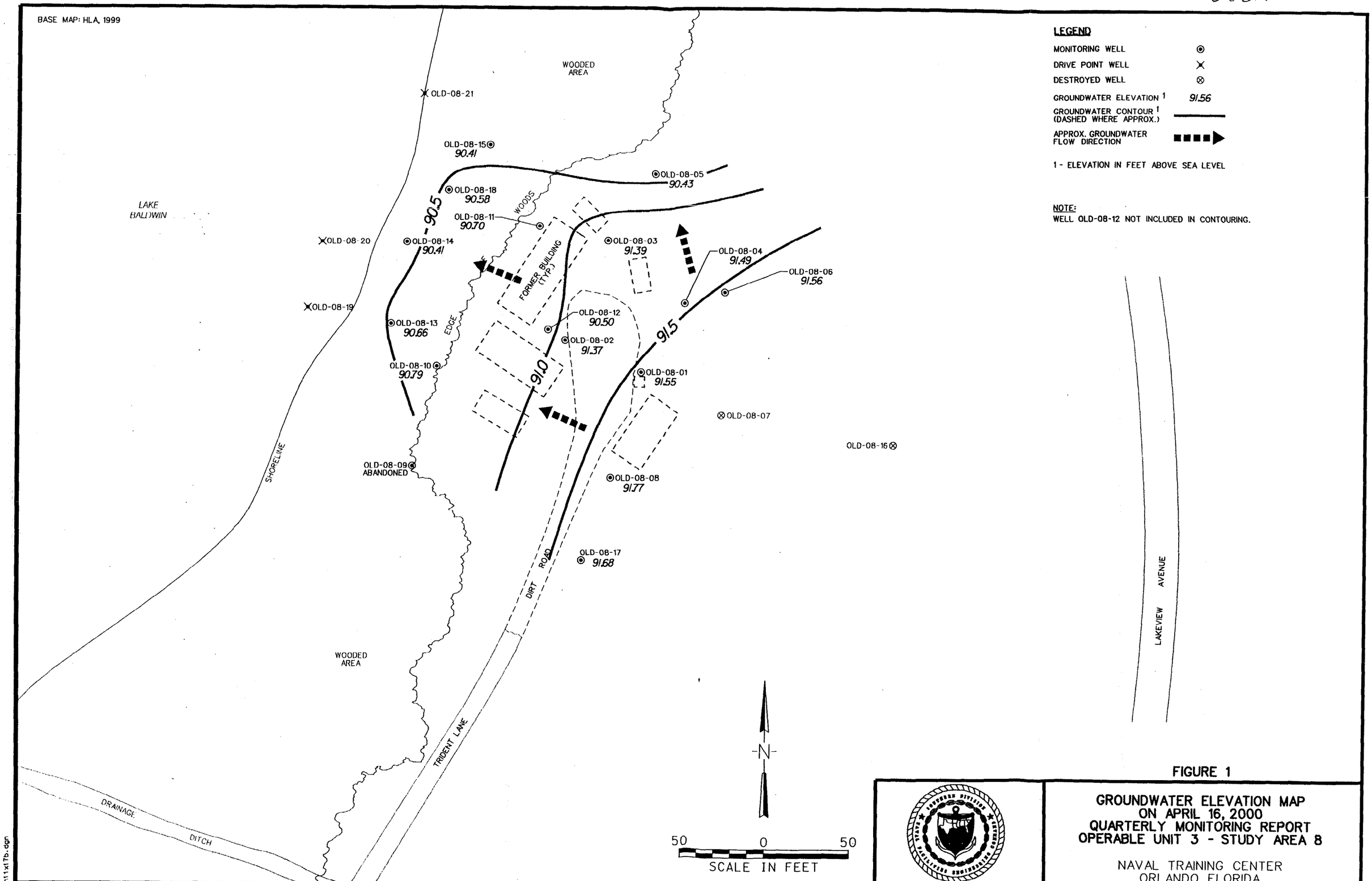
FIGURES

No.

1 Groundwater Elevation Map on April 16, 2000, Operable Unit 3 – Study Area 8
2 Groundwater Elevation Map on April 13, 2000, Operable Unit 3 – Study Area 9
3 Groundwater Exceedances, April 2000, Operable Unit 3 – Study Area 8
4 Groundwater Exceedances, April 2000, Operable Unit 3 – Study Area 9

00249FB12

BASE MAP: HLA, 1999



LEGEND

MONITORING WELL ⊙

DRIVE POINT WELL ✕

DESTROYED WELL ⊗

GROUNDWATER ELEVATION [1] 91.56

GROUNDWATER CONTOUR [1] (DASHED WHERE APPROX.)

APPROX. GROUNDWATER FLOW DIRECTION

1 - ELEVATION IN FEET ABOVE SEA LEVEL

NOTE:
WELL OLD-08-12 NOT INCLUDED IN CONTOURING.

FIGURE 1

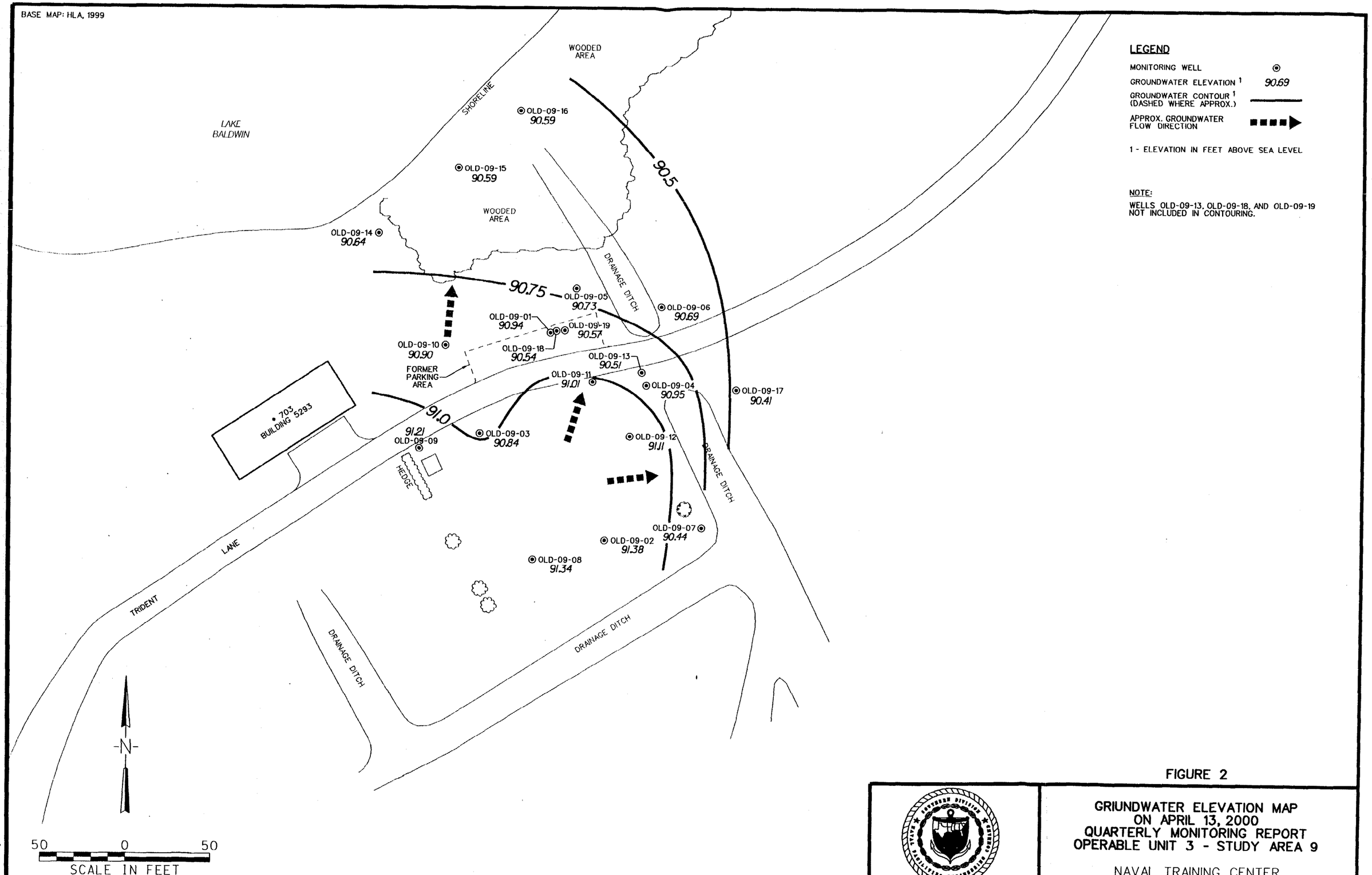
GROUNDWATER ELEVATION MAP ON APRIL 16, 2000 QUARTERLY MONITORING REPORT OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

CAD FILE NO./DATE: 7457H061.dgn/2-7-00

11x17b.dgn

BASE MAP: HLA, 1999



LEGEND

MONITORING WELL ⊙

GROUNDWATER ELEVATION [1] 90.69

GROUNDWATER CONTOUR [1] (DASHED WHERE APPROX.)

APPROX. GROUNDWATER FLOW DIRECTION

1 - ELEVATION IN FEET ABOVE SEA LEVEL

NOTE:

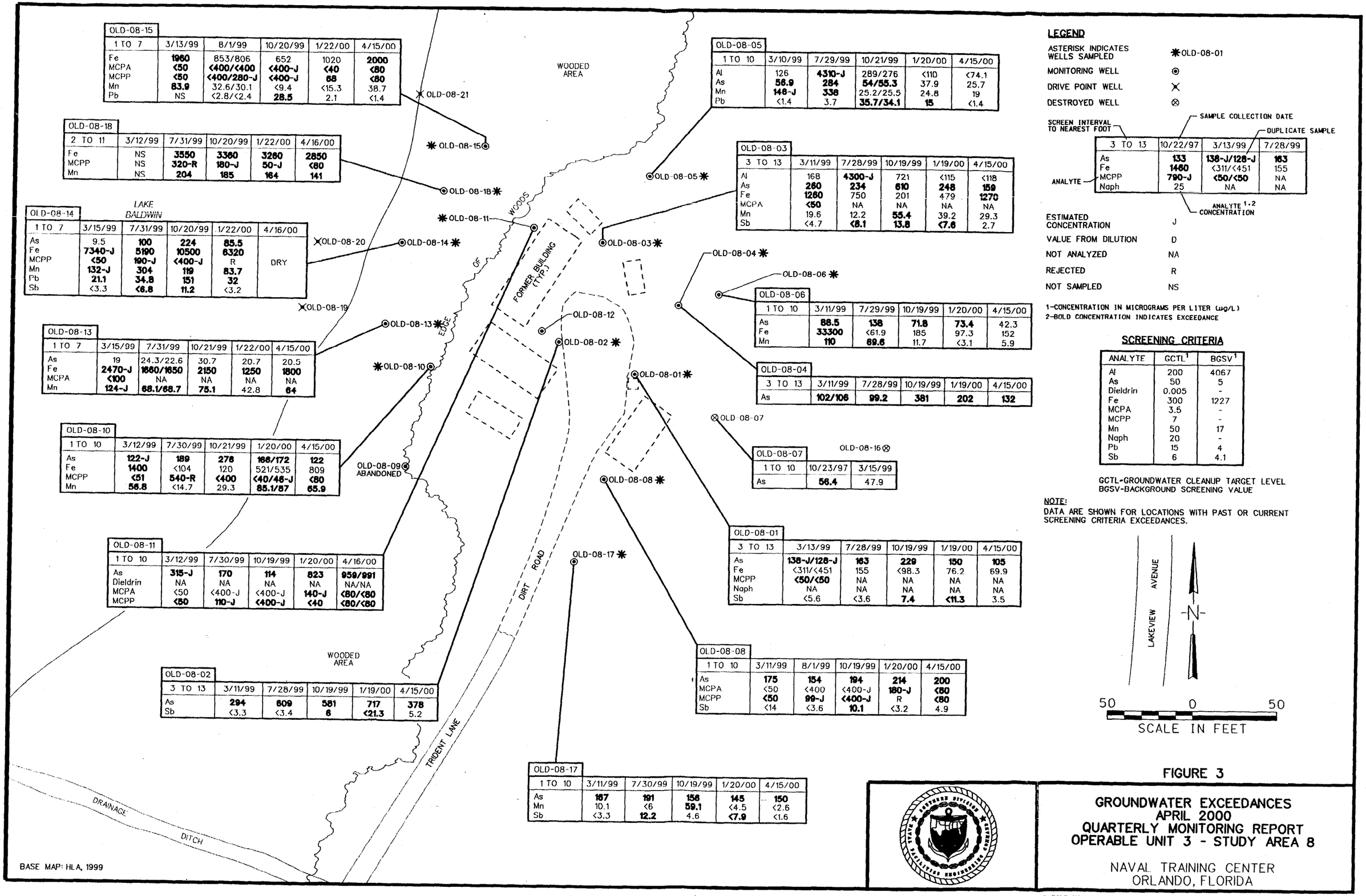
WELLS OLD-09-13, OLD-09-18, AND OLD-09-19 NOT INCLUDED IN CONTOURING.

FIGURE 2

GRIUNDWATER ELEVATION MAP
ON APRIL 13, 2000
QUARTERLY MONITORING REPORT
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

n11x17b.dgn



OLD-08-15					
1 TO 7	3/13/99	8/1/99	10/20/99	1/22/00	4/15/00
Fe	**1960**	853/806	652	1020	**2000**
MCPA	**<50**	**<400/<400**	**<400-J**	**<40**	**<80**
MCPP	**<50**	**<400/280-J**	**<400-J**	**68**	**<80**
Mn	**83.9**	32.6/30.1	<9.4	<15.3	38.7
Pb	NS	<2.8/<2.4	**28.5**	2.1	<1.4

OLD-08-18					
2 TO 11	3/12/99	7/31/99	10/20/99	1/22/00	4/16/00
Fe	NS	**3550**	**3360**	**3260**	**2850**
MCPP	NS	**320-R**	**180-J**	**50-J**	**<80**
Mn	NS	**204**	**185**	**164**	**141**

OLD-08-14					
1 TO 7	3/15/99	7/31/99	10/20/99	1/22/00	4/16/00
As	9.5	**100**	**224**	**85.5**	DRY
Fe	**7340-J**	**5190**	**10500**	**6320**	
MCPP	**<50**	**190-J**	**<400-J**	R	
Mn	**132-J**	**304**	**119**	**83.7**	
Pb	**21.1**	**34.8**	**151**	**32**	
Sb	<3.3	**<6.8**	**11.2**	<3.2	

OLD-08-13					
1 TO 7	3/15/99	7/31/99	10/21/99	1/22/00	4/15/00
As	19	24.3/22.6	30.7	20.7	20.5
Fe	**2470-J**	**1660/1650**	**2150**	**1250**	**1800**
MCPA	**<100**	NA	NA	NA	NA
Mn	**124-J**	**68.1/68.7**	**75.1**	42.8	**64**

OLD-08-10					
1 TO 10	3/12/99	7/30/99	10/21/99	1/20/00	4/15/00
As	**122-J**	**189**	**276**	**166/172**	**122**
Fe	**1400**	<104	120	521/535	809
MCPP	**<51**	**540-R**	**<400**	**<40/46-J**	**<80**
Mn	**56.8**	<14.7	29.3	**85.1/87**	**65.9**

OLD-08-11					
1 TO 10	3/12/99	7/30/99	10/19/99	1/20/00	4/16/00
As	**315-J**	**170**	**114**	**823**	**959/991**
Dieldrin	NA	NA	NA	NA	NA/NA
MCPA	<50	<400-J	<400-J	**140-J**	**<80/<80**
MCPP	**<50**	**110-J**	**<400-J**	**<40**	**<80/<80**

OLD-08-02					
3 TO 13	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
As	**294**	**609**	**581**	**717**	**378**
Sb	<3.3	<3.4	**6**	**<21.3**	5.2

OLD-08-05					
1 TO 10	3/10/99	7/29/99	10/21/99	1/20/00	4/15/00
Al	126	**4310-J**	289/276	<110	<74.1
As	**56.9**	**284**	**54/55.3**	37.9	25.7
Mn	**146-J**	**338**	25.2/25.5	24.8	19
Pb	<1.4	3.7	**35.7/34.1**	**15**	<1.4

OLD-08-03					
3 TO 13	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
Al	168	**4300-J**	721	<115	<118
As	**260**	**234**	**610**	**248**	**159**
Fe	**1260**	750	201	479	**1270**
MCPA	**<50**	NA	NA	NA	NA
Mn	19.6	12.2	**55.4**	39.2	29.3
Sb	<4.7	**<8.1**	**13.8**	**<7.6**	2.7

OLD-08-06					
1 TO 10	3/11/99	7/29/99	10/19/99	1/20/00	4/15/00
As	**88.5**	**138**	**71.8**	**73.4**	42.3
Fe	**33300**	<61.9	185	97.3	152
Mn	**110**	**69.6**	11.7	<3.1	5.9

OLD-08-04					
3 TO 13	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
As	**102/106**	**99.2**	**381**	**202**	**132**

OLD-08-07		
1 TO 10	10/23/97	3/15/99
As	**56.4**	47.9

OLD-08-01					
3 TO 13	3/13/99	7/28/99	10/19/99	1/19/00	4/15/00
As	**138-J/128-J**	**163**	**229**	**150**	**105**
Fe	<311/<451	155	<98.3	76.2	69.9
MCPP	**<50/<50**	NA	NA	NA	NA
Naph	NA	NA	NA	NA	NA
Sb	<5.6	<3.6	**7.4**	**<11.3**	3.5

OLD-08-08					
1 TO 10	3/11/99	8/1/99	10/19/99	1/20/00	4/15/00
As	**175**	**154**	**194**	**214**	**200**
MCPA	<50	<400	<400-J	**180-J**	**<80**
MCPP	**<50**	**99-J**	**<400-J**	R	**<80**
Sb	<14	<3.6	**10.1**	<3.2	4.9

OLD-08-17					
1 TO 10	3/11/99	7/30/99	10/19/99	1/20/00	4/15/00
As	**187**	**191**	**156**	**145**	**150**
Mn	10.1	<6	**59.1**	<4.5	<2.6
Sb	<3.3	**12.2**	4.6	**<7.9**	<1.6

3 TO 13	10/22/97	3/13/99	7/28/99
As	**133**	**138-J/128-J**	**163**
Fe	**1460**	<311/<451	155
MCPP	**790-J**	**<50/<50**	NA
Naph	25	NA	NA

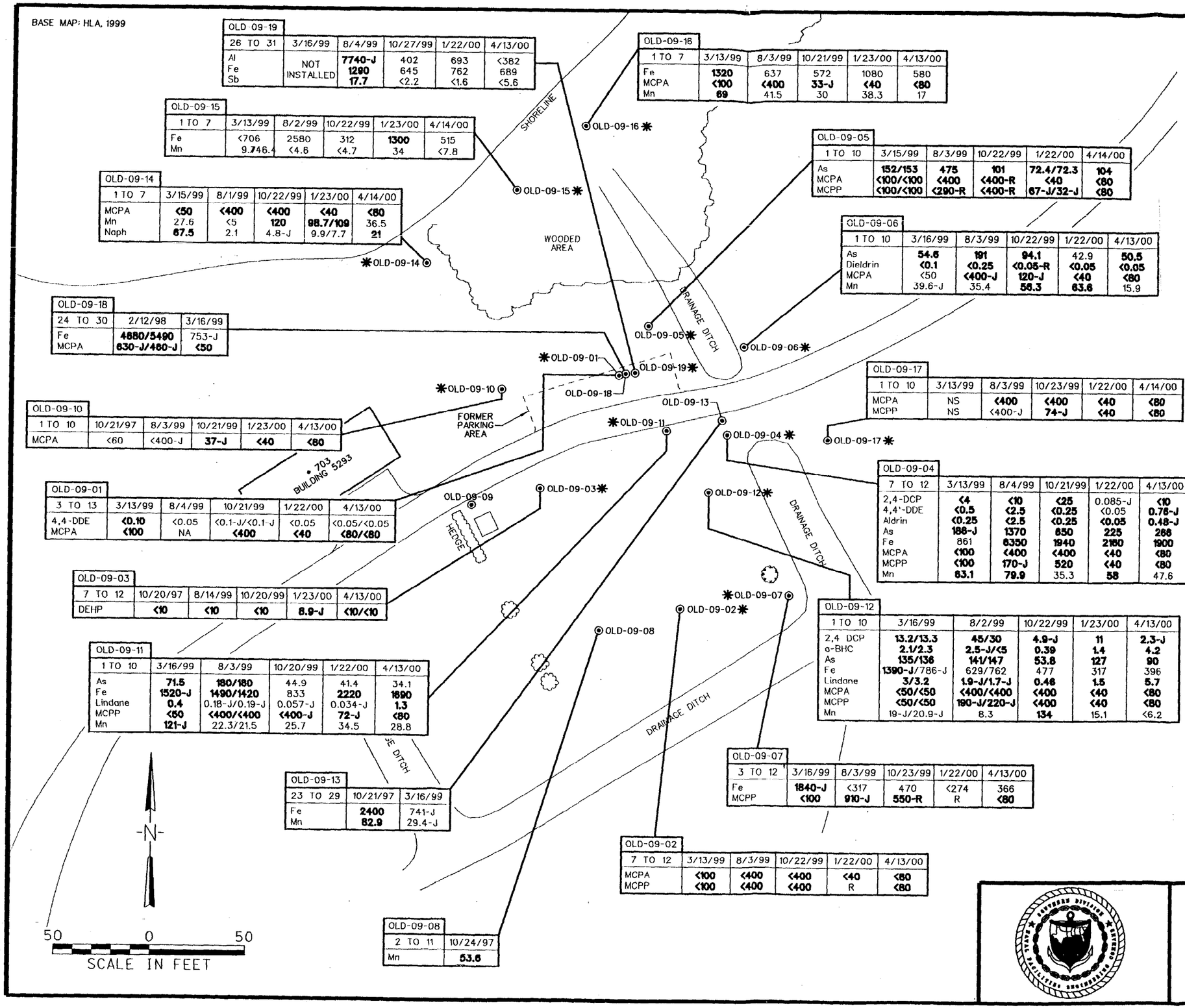
ANALYTE	GCTL[1]	BGSV[1]
Al	200	4067
As	50	5
Dieldrin	0.005	-
Fe	300	1227
MCPA	3.5	-
MCPP	7	-
Mn	50	17
Naph	20	-
Pb	15	4
Sb	6	4.1

FIGURE 3

GROUNDWATER EXCEEDANCES
APRIL 2000
QUARTERLY MONITORING REPORT
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

BASE MAP: HLA, 1999



OLD 09-19					
26 TO 31	3/16/99	8/4/99	10/27/99	1/22/00	4/13/00
Al	NOT INSTALLED	**7740-J**	402	693	<382
Fe		**1290**	645	762	689
Sb		**17.7**	<2.2	<1.6	<5.6

OLD-09-16					
1 TO 7	3/13/99	8/3/99	10/21/99	1/23/00	4/13/00
Fe	**1320**	637	572	1080	580
MCPA	**<100**	**<400**	**33-J**	**<40**	**<80**
Mn	**69**	41.5	30	38.3	17

OLD-09-15					
1 TO 7	3/13/99	8/2/99	10/22/99	1/23/00	4/14/00
Fe	<706	2580	312	**1300**	515
Mn	9.746.4	<4.6	<4.7	34	<7.8

OLD-09-14					
1 TO 7	3/15/99	8/1/99	10/22/99	1/23/00	4/14/00
MCPA	**<50**	**<400**	**<400**	**<40**	**<80**
Mn	27.6	<5	**120**	**98.7/109**	36.5
Naph	**67.5**	2.1	4.8-J	9.9/7.7	**21**

OLD-09-05					
1 TO 10	3/15/99	8/3/99	10/22/99	1/22/00	4/14/00
As	**152/153**	**475**	**101**	**72.4/72.3**	**104**
MCPA	**<100/<100**	**<400**	**<400-R**	**<40**	**<80**
MCPP	**<100/<100**	**<290-R**	**<400-R**	**67-J/32-J**	**<80**

OLD-09-06					
1 TO 10	3/16/99	8/3/99	10/22/99	1/22/00	4/13/00
As	**54.6**	**191**	**94.1**	42.9	**50.5**
Dieldrin	**<0.1**	**<0.25**	**<0.05-R**	**<0.05**	**<0.05**
MCPA	<50	**<400-J**	**120-J**	**<40**	**<80**
Mn	39.6-J	35.4	**56.3**	**63.6**	15.9

OLD-09-18		
24 TO 30	2/12/98	3/16/99
Fe	**4880/5490**	753-J
MCPA	**630-J/460-J**	**<50**

OLD-09-10					
1 TO 10	10/21/97	8/3/99	10/21/99	1/23/00	4/13/00
MCPA	<60	<400-J	**37-J**	**<40**	**<80**

OLD-09-17					
1 TO 10	3/13/99	8/3/99	10/23/99	1/22/00	4/14/00
MCPA	NS	**<400**	**<400**	**<40**	**<80**
MCPP	NS	<400-J	**74-J**	**<40**	**<80**

OLD-09-01					
3 TO 13	3/13/99	8/4/99	10/21/99	1/22/00	4/13/00
4,4-DDE	**<0.10**	<0.05	<0.1-J/<0.1-J	<0.05	<0.05/<0.05
MCPA	**<100**	NA	**<400**	**<40**	**<80/<80**

OLD-09-04					
7 TO 12	3/13/99	8/4/99	10/21/99	1/22/00	4/13/00
2,4-DCP	**<4**	**<10**	**<25**	0.085-J	**<10**
4,4'-DDE	**<0.5**	**<2.5**	**<0.25**	<0.05	**0.76-J**
Aldrin	**<0.25**	**<2.5**	**<0.25**	**<0.05**	**0.48-J**
As	**186-J**	**1370**	**850**	**225**	**268**
Fe	861	**6350**	**1940**	**2180**	**1900**
MCPA	**<100**	**<400**	**<400**	**<40**	**<80**
MCPP	**<100**	**170-J**	**520**	**<40**	**<80**
Mn	**63.1**	**79.9**	35.3	**58**	47.6

OLD-09-03					
7 TO 12	10/20/97	8/14/99	10/20/99	1/23/00	4/13/00
DEHP	**<10**	**<10**	**<10**	**8.9-J**	**<10/<10**

OLD-09-12					
1 TO 10	3/16/99	8/2/99	10/22/99	1/23/00	4/13/00
2,4 DCP	**13.2/13.3**	**45/30**	**4.9-J**	**11**	**2.3-J**
α-BHC	**2.1/2.3**	**2.5-J/<5**	**0.39**	**1.4**	**4.2**
As	**135/136**	**141/147**	**53.8**	**127**	**90**
Fe	**1390-J**/786-J	629/762	477	317	396
Lindane	**3/3.2**	**1.9-J/1.7-J**	**0.46**	**1.5**	**5.7**
MCPA	**<50/<50**	**<400/<400**	**<400**	**<40**	**<80**
MCPP	**<50/<50**	**190-J/220-J**	**<400**	**<40**	**<80**
Mn	19-J/20.9-J	8.3	**134**	15.1	<6.2

OLD-09-11					
1 TO 10	3/16/99	8/3/99	10/20/99	1/22/00	4/13/00
As	**71.5**	**180/180**	44.9	41.4	34.1
Fe	**1520-J**	**1490/1420**	833	**2220**	**1890**
Lindane	**0.4**	0.18-J/0.19-J	0.057-J	0.034-J	**1.3**
MCPP	**<50**	**<400/<400**	**<400-J**	**72-J**	**<80**
Mn	**121-J**	22.3/21.5	25.7	34.5	28.8

OLD-09-07					
3 TO 12	3/16/99	8/3/99	10/23/99	1/22/00	4/13/00
Fe	**1840-J**	<317	470	<274	366
MCPP	**<100**	**910-J**	**550-R**	R	**<80**

OLD-09-13		
23 TO 29	10/21/97	3/16/99
Fe	**2400**	741-J
Mn	**82.9**	29.4-J

OLD-09-02					
7 TO 12	3/13/99	8/3/99	10/22/99	1/22/00	4/13/00
MCPA	**<100**	**<400**	**<400**	**<40**	**<80**
MCPP	**<100**	**<400**	**<400**	R	**<80**

OLD-09-08	
2 TO 11	10/24/97
Mn	**53.6**

LEGEND

ASTERISK INDICATES WELLS SAMPLED — ✱OLD-09-05

MONITORING WELL — ⊙

SCREEN INTERVAL TO NEAREST FOOT — SAMPLE COLLECTION DATE

1 TO 10	10/21/97	3/16/99	8/3/99
As	**93.9**	**71.5**	**180/180**
Fe	570	**1520-J**	**1490/1420**
Lindane	0.034-J	**0.4**	0.18-J/0.19-J
MCPP	**1200-J**	**<50**	**<400/<400**
Mn	11.6-J	**121-J**	22.3/21.5

ANALYTE — ANALYTE CONCENTRATION[1,2] — DUPLICATE SAMPLE

ESTIMATED CONCENTRATION	J
VALUE FROM DILUTION	D
REJECTED	R
NOT SAMPLED	NS

1-CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
2-BOLD CONCENTRATION INDICATES EXCEEDANCE

SCREENING CRITERIA

ANALYTE	GCTL[1]	BGSV[1]
Al	200	4067
Aldrin	0.005	-
As	50	5
DEHP	6	-
Dieldrin	0.005	-
Fe	300	1227
MCPA	3.5	-
MCPP	7	-
Mn	50	17
Sb	6	4.1
α-BHC	0.006	-
2,4-DCP	0.5	-
4,4'-DDE	0.1	-
Lindane	0.2	-
Naph	20	-

GCTL-GROUNDWATER CLEANUP TARGET LEVEL
BGSV-BACKGROUND SCREENING VALUE
DEHP-Bis(2-ethylhexyl)phthalate
2,4-DCP-2,4-Dichlorophenol

NOTE:
DATA ARE SHOWN FOR LOCATIONS WITH PAST OR CURRENT SCREENING CRITERIA EXCEEDANCES.

FIGURE 4

GROUNDWATER EXCEEDANCES
APRIL 2000
QUARTERLY MONITORING REPORT
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

n11x17b.dgn

TABLES

No.

1 Water-Level Elevations Summary Operable Unit 3 – Study Area 8

2 Water-Level Elevations Summary Operable Unit 3 – Study Area 9

3 Positive Detections in Groundwater - April 2000 – Study Area 8

4 Positive Detections in Groundwater - April 2000 – Study Area 9

5 Historical Detections in Groundwater Operable Unit 3 – Study Areas 8 and 9

6 Validated Groundwater Analytical Results - April 2000 – Study Area 8

7 Validated Groundwater Analytical Results - April 2000 – Study Area 9

R47060018

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well	Well Type	Screen Interval (BGS)	TOC Elevation (AMSL)	3/14/99		7/20/99		10/19/99		1/20/00		4/16/00	
				Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)
OLD-08-01	2" well	3-13	94.96	3.70	91.26	2.23	92.73	0.85	94.11	2.39	92.57	3.41	91.55
OLD-08-02	2" well	3-13	94.77	3.65	91.12	2.30	92.47	1.19	93.58	2.40	92.37	3.40	91.37
OLD-08-03	2" well	3-13	94.31	3.21	91.10	1.89	92.42	0.83	93.48	1.95	92.36	2.92	91.39
OLD-08-04	2" well	3-13	94.62	3.45	91.17	1.99	92.63	0.74	93.88	2.13	92.49	3.13	91.49
OLD-08-05	½" µ well	1-10	93.64	2.35	91.29	1.02	92.62	0.80	92.84	2.17	91.47	3.21	90.43
OLD-08-06	½" µ well	1-10	95.06	3.75	91.31	1.99	93.07	0.62	94.44	2.40	92.66	3.50	91.56
OLD-08-08	½" µ well	1-10	95.22	3.67	91.55	2.29	92.93	0.83	94.39	2.39	92.83	3.45	91.77
OLD-08-10	½" µ well	1-10	93.07	2.31	90.76	1.58	91.49	0.45	92.62	1.49	91.58	2.28	90.79
OLD-08-11	½" µ well	1-10	93.00	2.57	90.43	1.28	91.72	0.45	92.55	1.33	91.67	2.30	90.70
OLD-08-12	½" µ well	23-29	94.50	4.27	90.23	3.32	91.18	1.88	92.62	3.15	91.35	4.00	90.50
OLD-08-13	½" µ well	1.13-7.13	95.98	5.34	90.64	4.66	91.32	3.43	92.55	4.72	91.26	5.32	90.66
OLD-08-14	½" µ well	1.12-7.12	97.12	6.44	90.68	5.59	91.53	4.55	92.57	5.66	91.46	6.71	90.41
OLD-08-15	½" µ well	1.22-7.22	96.41	5.89	90.52	5.33	91.08	3.83	92.58	5.15	91.26	6.00	90.41
OLD-08-17	½" µ well	09-9.9	94.92	3.43	91.49	2.10	92.82	0.55	94.37	2.13	92.79	3.24	91.68
OLD-08-18	½" µ well	1.5-10.5	95.32	5.10	90.22	4.13	91.19	2.77	92.55	4.97	90.35	4.74	90.58

Notes:

Monitoring wells -07 and -16 have been destroyed. Monitoring well -09 has been abandoned.

All measurements are in units of feet.

AMSL - Above mean sea level

BGS - Below ground surface

BTOC - Below top of casing

R47060018

TABLE 2

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well	Well Type	Screen Interval (BGS)	TOC Elevation (AMSL)	3/16/99		7/19/99		10/20/99		1/21/00		4/13/00	
				Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)
OLD-09-01	2" well	3-13	94.66	3.82	90.84	2.65	92.01	1.11	93.55	2.72	91.94	3.72	90.94
OLD-09-02	2" well	7-12	97.72	6.71	91.01	5.43	92.29	3.56	94.16	5.30	92.42	6.34	91.38
OLD-09-03	2" well	7-12	97.81	7.08	90.73	6.13	91.68	4.60	93.21	5.43	92.38	6.97	90.84
OLD-09-04	2" well	7-12	97.18	6.48	90.70	5.23	91.95	2.68	94.50	5.31	91.87	6.23	90.95
OLD-09-05	½" m well	1-10	94.16	3.36	90.80	2.33	91.83	0.85	93.31	2.40	91.76	3.43	90.73
OLD-09-06	½" m well	1-10	93.87	2.74	91.13	1.63	92.24	0.60	93.27	2.25	91.62	3.18	90.69
OLD-09-07	½" m well	3-12	95.69	5.15	90.54	4.29	91.40	2.12	93.57	4.38	91.31	5.25	90.44
OLD-09-08	½" m well	2-11	95.59	4.27	91.32	3.00	92.59	1.23	94.36	3.06	92.53	4.25	91.34
OLD-09-09	½" m well	1-10	95.17	3.81	91.36	2.62	92.55	1.34	93.83	2.95	92.22	3.96	91.21
OLD-09-10	½" m well	1-10	94.63	3.59	91.04	2.38	92.25	0.91	93.72	2.71	91.92	3.73	90.90
OLD-09-11	½" m well	1-10	95.05	3.77	91.28	2.65	92.40	1.41	93.64	3.08	91.97	4.04	91.01
OLD-09-12	½" m well	1-10	95.21	4.02	91.19	2.92	92.29	1.32	93.89	3.10	92.11	4.10	91.11
OLD-09-13	½" m well	23-29	94.91	22.64	72.27	3.45	91.46	1.60	93.31	3.64	91.27	4.40	90.51
OLD-09-14	½" m well	1.39-7.39	97.11	6.29	90.82	5.73	91.38	4.38	92.73	5.72	91.39	6.47	90.64
OLD-09-15	½" m well	1.18-7.18	96.62	5.86	90.76	5.33	91.29	5.20	91.42	5.28	91.34	6.03	90.59
OLD-09-16	½" m well	1.11-7.11	96.61	5.86	90.75	5.29	91.32	3.95	92.66	5.25	91.36	6.02	90.59
OLD-09-17	½" m well	0.93-9.93	95.00	4.46	90.54	3.64	91.36	1.65	93.35	3.72	91.28	4.59	90.41
OLD-09-18	½" m well	23.6-29.6	94.74	23.38	71.36	3.30	91.44	1.61	93.13	3.40	91.34	4.20	90.54
OLD-09-19	2" well	25.5-30.5	94.59	Not Installed		Not Installed		1.57	93.02	3.30	91.29	4.02	90.57

Notes:
All measurements are in units of feet.
AMSL - Above mean sea level
BGS - Below ground surface
BTOC - Below top of casing

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - APRIL 2000
OPERABLE UNIT 3 STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-01	OLD-08-02	OLD-08-03	OLD-08-04	OLD-08-05	OLD-08-06	OLD-08-08	OLD-08-10	OLD-08-11
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G00114	NTC08G00214	NTC08G00314	NTC08G00414	NTC08G00514	NTC08G00614	NTC08G00814	NTC08G01014	NTC08G01114
LAB ID				A0D180174001	A0D180174010	A0D180174005	A0D180174004	A0D180174009	A0D180174008	A0D180174003	A0D180174006	A0D180174013
SAMPLE DATE				4/15/00	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00	4/16/00
Herbicides (µg/L)												
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	NA			
Inorganics (µg/L)												
Aluminum	7429-90-5	200	4067		292		230				379	194
Antimony	7440-36-0	6	4.1	3.5	5.2	2.7			2.5	4.9	2.6	3.2
Arsenic	7440-38-2	50	5	**105**	**378**	**159**	**132**	25.7	42.3	**200**	**122**	**959**
Barium	7440-39-3	2000	31.4		23	15.4				6.7	13.6	
Calcium	7440-70-2	*	36830	30900	58800	36100	24900	15000	20300	79300	24600	41000
Chromium	7440-47-3	100	7.8	2.9		4.1	2.9					3.5
Copper	7440-50-8	1000	5.4	4.2		3.1	11	9.5				9.2
Iron	7439-89-6	300	1227	69.9	291	**1270**		73.3	152		809	44.5
Lead	7439-92-1	15	4									
Magnesium	7439-95-4	*	4560	2400	3830	3170	2940	1510	1690	3400	2060	3890
Manganese	7439-96-5	50	17		26.6	29.3	18.8	19	5.9		**65.9**	5.4
Mercury	7439-97-6	2	0.12	0.04								0.05
Nickel	7440-02-0	100	*		1.8	24.2	7.4					
Potassium	7440-09-7	*	5400	4980	3080	5320	5350	2410	2150	6550	532	12100
Sodium	7440-23-5	160000	18222	1540	1390	1630	1550	1570	1420	1810	5650	3940
Vanadium	7440-62-2	49	20.6									
Zinc	7440-66-6	5000	4			394	156					

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - APRIL 2000
OPERABLE UNIT 3 STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-11	OLD-08-13	OLD-08-15	OLD-08-17	OLD-08-18	OLD-08-19	OLD-08-20	OLD-08-21
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G01114-D	NTC08G01314	NTC08G01514	NTC08G01714	NTC08G01814	NTC08G01914	NTC08G02014	NTC08G02114
LAB ID				A0D180174015	A0D180174007	A0D180174011	A0D180174002	A0D180174016	A0D180174012	A0D180174014	A0D180174017
SAMPLE DATE				4/16/00	4/15/00	4/15/00	4/15/00	4/16/00	4/15/00	4/16/00	4/16/00
Herbicides (µg/L)											
Pentachlorophenol	87-86-5	1			NA		NA			0.07 J	
Inorganics (µg/L)											
Aluminum	7429-90-5	200	4067	195	1450	732		700	2790	524	661
Antimony	7440-36-0	6	4.1								
Arsenic	7440-38-2	50	5	991	20.5	4.1	150		2.9		2.6
Barium	7440-39-3	2000	31.4		20.8	22		29.3	18.5	7.2	5.5
Calcium	7440-70-2	*	36830	42200	11000	7050	58400	4910	12200	19000	3640
Chromium	7440-47-3	100	7.8	5.3					3.2		
Copper	7440-50-8	1000	5.4	6.6	7.3				5.1		
Iron	7439-89-6	300	1227	51.6	1800	2000		2850	135		105
Lead	7439-92-1	15	4		2.6				4.7		
Magnesium	7439-95-4	*	4560	4040	2380	3930	2940	2400	2130	3740	2980
Manganese	7439-96-5	50	17	5.7	64	38.7		141			
Mercury	7439-97-6	2	0.12		0.04	0.05					0.06
Nickel	7440-02-0	100	*	2.9	3.7	2.1		2.5			
Potassium	7440-09-7	*	5400	12600	875	385	6440	1090	1610	1760	987
Sodium	7440-23-5	160000	18222	4130	10300	17400	1850	8590	9860	6820	7290
Vanadium	7440-62-2	49	20.6		2.1			5.5			2.8
Zinc	7440-66-6	5000	4								

Notes:

* indicates that the screening value is not available.
Empty cells indicate non-detects.
"J" qualifier indicates an estimated value.
NA Not analyzed.
Only chemicals detected in at least one sample are shown.
Values in shaded cells are equal to or exceed the screening criteria.

[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.

TABLE 4

POSITIVE DETECTIONS IN GROUNDWATER - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-01		OLD-09-02	OLD-09-03		OLD-09-04	OLD-09-05	OLD-09-06	OLD-09-07
SAMPLE ID				NTC09G00114	NTC09G00114-D	NTC09G00214	NTC09G00314	NTC09G00314-D	NTC09G00414	NTC09G00514	NTC09G00614	NTC09G00714
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148003	A0D150148004	A0D150148005	A0D150148006	A0D150148007	A0D150148008	A0D150148009	A0D150148010	A0D150148011
SAMPLE DATE				4/13/00	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00	4/14/00	4/13/00	4/13/00
Semivolatiles (µg/L)				NA	NA	NA				NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4										
2,4,6-Trichlorophenol	88-06-2	3.2										
2,4-Dichlorophenol	120-83-2	0.5										
PAHs (µg/L)				NA	NA	NA				NA	NA	NA
1-Methylnaphthalene	90-12-0	20							3.5			
2-Methylnaphthalene	91-57-6	20							3.6			
Naphthalene	91-20-3	20							4.2			
Pesticides (µg/L)												
4,4'-DDE	72-55-9	0.1							0.76 J			
4,4'-DDT	50-29-3	0.1									0.053 J	
Aldrin	309-00-2	0.005							0.48 J			
alpha-BHC	319-84-6	0.2										
alpha-Chlordane[d]	5103-71-9	2							0.56			
Endosulfan I	959-98-8	42										
Endrin	72-20-8	2							0.16			
Endrin Aldehyde	7421-93-4	*							0.24 J			
gamma-BHC (Lindane)	58-89-9	0.2										
gamma-Chlordane[d]	5103-74-2	2		0.04 J	0.044 J				0.7 J			
Herbicides (µg/L)												
2,4,5-TP (Silvex)	93-72-1	50									0.52 J	
2,4-D	94-75-7	70										
Dicamba	1918-00-9	210							0.27 J		8.7 J	
Inorganics (µg/L)												
Aluminum	7429-90-5	200	4067			1490					1400	945
Arsenic	7440-38-2	50	5	18.2	18.1				266	104	50.5	
Barium	7440-39-3	2000	31.4	46.9	46.4							
Calcium	7440-70-2	*	36830	122000	121000	7780	10400	10300	37400	49000	12000	5890
Chromium	7440-47-3	100	7.8									3.2
Copper	7440-50-8	1000	5.4						5.2			
Iron	7439-89-6	300	1227	304	307	151	151	157	1900	301	749	366
Lead	7439-92-1	15	4									
Magnesium	7439-95-4	*	4560	7220	7170	1960	2130	2140	3260	4420	2240	811
Manganese	7439-96-5	50	17	25.1	24.9				47.6		15.9	
Potassium	7440-09-7	*	5400	6170	6160	3050	3290	3260	7190	8170	2660	720
Sodium	7440-23-5	160000	18222	1500	1550	1720	1670	1670		1370	4190	1510
Vanadium	7440-62-2	49	20.6								2.8	2.1

TABLE 4

POSITIVE DETECTIONS IN GROUNDWATER - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-10	OLD-09-11	OLD-09-12	OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
SAMPLE ID				NTC09G01014	NTC09G01114	NTC09G01214	NTC09G01414	NTC09G01514	NTC09G01614	NTC09G01714	NTC09G01914
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148012	A0D150148013	A0D150148014	A0D150148018	A0D150148019	A0D150148015	A0D150148016	A0D150148017
SAMPLE DATE				4/13/00	4/13/00	4/13/00	4/14/00	4/14/00	4/13/00	4/14/00	4/13/00
Semivolatiles (µg/L)				NA	NA				NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4				1.4 J					
2,4,6-Trichlorophenol	88-06-2	3.2				1.2 J					
2,4-Dichlorophenol	120-83-2	0.5				2.3 J					
PAHs (µg/L)				NA	NA				NA	NA	NA
1-Methylnaphthalene	90-12-0	20				0.46 J	0.58 J				
2-Methylnaphthalene	91-57-6	20				0.75 J	0.69 J				
Naphthalene	91-20-3	20				2.3	21	6.6			
Pesticides (µg/L)											
4,4'-DDE	72-55-9	0.1			0.063 J						
4,4'-DDT	50-29-3	0.1									
Aldrin	309-00-2	0.005									
alpha-BHC	319-84-6	0.2			0.092 J	4.2					
alpha-Chlordane[d]	5103-71-9	2			0.098 J						
Endosulfan I	959-98-8	42				1.2 J		0.02 J			
Endrin	72-20-8	2									
Endrin Aldehyde	7421-93-4	*									
gamma-BHC (Lindane)	58-89-9	0.2			1.3	5.7					
gamma-Chlordane[d]	5103-74-2	2			0.065 J						
Herbicides (µg/L)											
2,4,5-TP (Silvex)	93-72-1	50				0.69 J					
2,4-D	94-75-7	70			0.19 J	6.2 J					
Dicamba	1918-00-9	210									
Inorganics (µg/L)											
Aluminum	7429-90-5	200	4067		1440	1020					
Arsenic	7440-38-2	50	5		34.1	90				16.9	
Barium	7440-39-3	2000	31.4		15.5				13.2		
Calcium	7440-70-2	*	36830	26600	27700	5950	15900			39800	
Chromium	7440-47-3	100	7.8		2.9						
Copper	7440-50-8	1000	5.4								
Iron	7439-89-6	300	1227	723	1690	396	392	515	580	114	689
Lead	7439-92-1	15	4		11.2						
Magnesium	7439-95-4	*	4560	2420	1510	970	1530	501	830	770	1070
Manganese	7439-96-5	50	17	17.2	28.8		36.5		17		
Potassium	7440-09-7	*	5400	2980	6960	7260	366		461	1020	642
Sodium	7440-23-5	160000	18222	1650	1520		4420	4380	7780	691	6660
Vanadium	7440-62-2	49	20.6				2.7		2.5		5.1

TABLE 4

POSITIVE DETECTIONS IN GROUNDWATER – APRIL 2000
OPERABLE UNIT 3 – STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

* indicates that the screening value is not available.
Empty cells indicate non-detects.
"J" qualifier indicates an estimated value.
NA Not analyzed.
Only chemicals detected in at least one sample are shown.
Values in shaded cells are equal to or exceed the screening criteria.
(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) Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-01						
Sample ID	Florida GCTL[b]	NTC BGSV[c]	08G00102	NTC08G00110	NTC08G00110-D	NTC08G00111	NTC08G0112	NTC08G00113	NTC08G00114
Lab ID			873054	F3846-7	F3846-11	A9G29018006	A9J210106004	A0A240125001	A0D180174001
Sample Date			10/22/97	3/13/99	3/13/99	7/28/99	10/19/99	1/19/00	4/15/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA						
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20		**25**						
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1		0.0056 J						
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2		0.01 J						
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)						NA	NA	NA	NA
2,4 5-TP (Silvex)	50								
2,4-D	70		0.095 J						
2,4-DB	56		0.046 J						
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7		**790 J**						
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067		199	235	192 J	156		
Antimony	6	4.1	3.7 J				**7.4**		3.5
Arsenic	50	5	**133**	**138 J**	**128 J**	**163**	**229**	**150**	**105**
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	19 J				11.9	6.9	
Cadmium	5	5.6							
Calcium	*	36830	101000	35500	34500	55000 J	56300	46100	30900
Chromium	100	7.8	2.6 J	13.7	10.7		3.6	4	2.9
Cobalt	420	*							
Copper	1000	5.4					5.2	3	4.2
Iron	300	1227	**1460**			155		76.2	69.9
Lead	15	4							
Magnesium	*	4560		2810	2920	3980	4510	2800	2400
Manganese	50	17	12.6 J		5.8	4.8	21.8	10.5	
Mercury	2	0.12							0.04
Nickel	100	*	1.7 J	6.2	6.9				
Potassium	*	5400	16000	6200	5780	6390	12600	5400	4980
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		3500	3620	6050	3560	1120	1540
Vanadium	49	20.6	0.86 J	13.6	11.8		2.3	3.2	
Zinc	5000	4				129		41	
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			27.4						
Total Suspended Solids			5						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-02					
Sample ID			08G00202	NTC08G00210	NTC08G00211	NTC08G0212	NTC08G00213	NTC08G00214
Lab ID	Florida	NTC	873055	F3841-4	A9G2901198009	A9J210106003	A0A240125002	A0D180174010
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA					
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20							
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*		0.012 J					
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)					NA	NA	NA	NA
2,4,5-TP (Silvex)	50							
2,4-D	70		0.0051 J					
2,4-DB	56		0.09 J					
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5							
MCPP	7							
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067		207	918 J	515	352	292
Antimony	6	4.1				6		5.2
Arsenic	50	5	295	294	609	581	717	378
Arsenic (III)								
Arsenic (v)								
Barium	2000	31.4	25.1 J	21.5 J	24.5	36	25.3	23
Cadmium	5	5.6				0.23		
Calcium	*	36830	104000	62100	74200 J	81600	62200	58800
Chromium	100	7.8	1.4 J			2.4	4.2	
Cobalt	420	*						
Copper	1000	5.4		2.1		6.7		
Iron	300	1227		250	148	332	188	291
Lead	15	4				3.2		
Magnesium	*	4560		3710	4360	5550	4640	3830
Manganese	50	17	6.7 J	13.1	13.3	27.2	40.3	26.6
Mercury	2	0.12						
Nickel	100	*	1.4 J	1.4			2.3	1.8
Potassium	*	5400	10800	6710	10100	11000	6450	3080
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		6470	5850	8220	2600	1390
Vanadium	49	20.6		0.50		1		
Zinc	5000	4		47.1 J		131	43.6	
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			28.8					
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-03					
Sample ID			08G00302	NTC08G00310	NTC08G00311	NTC08G0312	NTC08G00313	NTC08G00314
Lab ID	Florida	NTC	873056	F3841-6	A9G290198008	A9J210106007	A0A240125003	A0D180174005
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA					
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20							
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)					NA	NA	NA	NA
2,4 5-TP (Silvex)	50							
2,4-D	70							
2,4-DB	56		0.6 J					
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5		**640 J**					
MCPP	7							
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067		168	**4300 J**	721		
Antimony	6	4.1				**13.8**		2.7
Arsenic	50	5	**79.9**	**260**	**234**	**810**	**248**	**159**
Arsenic (III)								
Arsenic (v)								
Barium	2000	31.4	14.7 J	20.9 J	38.3	51.6	18.2	15.4
Cadmium	5	5.6						
Calcium	*	36830	37500	28600	67600 J	89600	42500	36100
Chromium	100	7.8	1.7 J		5.2	4.5	6.7	4.1
Cobalt	420	*				1.3		
Copper	1000	5.4	1.5 J	3.3	15.7	2.9	3.6	3.1
Iron	300	1227	231	**1260**	750	201	479	**1270**
Lead	15	4			2.8			
Magnesium	*	4560		2440	3450	8120	3470	3170
Manganese	50	17	15.3	19.6	12.2	**55.4**	39.2	29.3
Mercury	2	0.12						
Nickel	100	*	1.6 J	10.0	15	27.4	33.5	24.2
Potassium	*	5400	9130	6400	9610	20900	5830	5320
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		4290	5790	5970	1850	1630
Vanadium	49	20.6		0.77		1.2		
Zinc	5000	4		180 J	254	561	568	394
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			30.6					
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-04						
Sample ID			08G00402	NTC08G00410	NTC08G00410-D	NTC08G00411	NTC08G0412	NTC08G00413	NTC08G00414
Lab ID	Florida	NTC	873064	F3841-5	F3841-7	A9G290198007	A9J210106005	A0A240125004	A0D180174004
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	3/11/99	7/28/99	10/19/99	1/19/00	4/15/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA						
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)						NA	NA	NA	NA
2,4,5-TP (Silvex)	50								
2,4-D	70		0.023 J						
2,4-DB	56		0.18 J						
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067		240	304	918 J	261		230
Antimony	6	4.1					3.6		
Arsenic	50	5	**70.4**	**102**	**106**	**99.2**	**381**	**202**	**132**
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4					8.4	3.2	
Cadmium	5	5.6					0.44		
Calcium	*	36830	28900	21700	22900	26600 J	59000	27700	24900
Chromium	100	7.8	1.5 J				4.1	4.3	2.9
Cobalt	420	*							
Copper	1000	5.4	1.3 J	5.0	37.6	8.5	11.1	5.1	11
Iron	300	1227			222			53.6	
Lead	15	4							
Magnesium	*	4560		2230	2420	2220	6740	3200	2940
Manganese	50	17	16.4	19.8	18.1	10.3	39.2	22.2	18.8
Mercury	2	0.12							
Nickel	100	*	3 J	6.8	7.5	9.5		6.9	7.4
Potassium	*	5400	9940	6430	6750	5380	19500	8100	5350
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		4580	5070	6630	4370	1870	1550
Vanadium	49	20.6		2.1	2.4		3.1		
Zinc	5000	4		295 J	337 J	627	310	202	156
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			27						
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-05							
Sample ID			08G00501	08G00501D	NTC08G00510	NTC08G00511	NTC08G0512	NTC08G0512-D	NTC08G00513	NTC08G00514
Lab ID	Florida	NTC	873270	873272	F3832-1	A9G300236003	A9J220158007	A9J220158008	A0A240125013	A0D180174009
Sample Date	GCTL[b]	BGSV[c]	10/23/97	10/23/97	3/10/99	7/29/99	10/21/99	10/21/99	1/20/00	4/15/00
Semivolatiles/PAHs (µg/L)					NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA	NA						
2,4,5-Trichlorophenol										
2,4,6-Trichlorophenol	3.2									
2,4-Dichlorophenol	0.5									
2,4-Dimethylphenol	140									
2-Methylnaphthalene	20									
2-Methylphenol	35									
4-Methylphenol	4									
Acenaphthene	20									
Bis(2-ethylhexyl)phthalate	6									
Naphthalene	20									
Pentachlorophenol	1									
Phenol	10									
Pesticides/PCBs (µg/L)					NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1									
4,4'-DDE	0.1									
4,4'-DDT	0.1									
Aldrin	0.005									
alpha-BHC	0.2									
alpha-Chlordane[d]	2									
delta-BHC	2.1									
Dieldrin	0.005									
Endosulfan	42									
Endosulfan II[d]	42									
Endosulfan Sulfate	*									
Endrin	2									
Endrin Aldehyde	*									
gamma-BHC (Lindane)	0.2									
gamma-Chlordane[d]	2									
Toxaphene	3									
Herbicides (µg/L)						NA	NA	NA	NA	NA
2,4 5-TP (Silvex)	50									
2,4-D	70									
2,4-DB	56		1.4 J							
Dalapon	200									
Dicamba	210									
Dichloroprop	35									
Dinoseb	7		0.098 J							
MCPA	3.5									
MCPP	7									
Pentachlorophenol	1									
Inorganics (µg/L)										
Aluminum	200	4067			126	4310 J	289	276		
Antimony	6	4.1								
Arsenic	50	5	**57.7**	**57.3**	**56.9**	**284**	**54**	**55.3**	37.9	25.7
Arsenic (III)										
Arsenic (v)										
Barium	2000	31.4	11.8 J	11.3 J	17.8	77.8	7.7	8.1	6.9	
Cadmium	5	5.6					0.42	0.39		
Calcium	*	36830	33200	33100	19800	101000 J	17800	18200	17300	15000
Chromium	100	7.8	1.8 J	2.3 J	10.5	6.8	10.1	10.7	6.2	
Cobalt	420	*								
Copper	1000	5.4	1.2 J	0.96 J	2.3	9.3	30.8	29.2	45.4	9.5
Iron	300	1227					590	583	134	73.3
Lead	15	4				3.7	**35.7**	**34.1**	**15**	
Magnesium	*	4560			2640	8500	1510	1550	1450	1510
Manganese	50	17	**160**	**162**	**146 J**	**338**	25.2	25.5	24.8	19
Mercury	2	0.12								
Nickel	100	*			1.4				2.3	
Potassium	*	5400	11200	11200	5910 J	12900	3100	3240	2460	2410
Selenium	50	9.7								
Silver	100	*					1.7	1.8		
Sodium	160000	18222			3850	8540	1220	1290	1940	1570
Vanadium	49	20.6			0.43		4.3	4.2	2.9	
Zinc	5000	4			40.9 J	74.1			84.5	
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon			31.2							
Total Suspended Solids										

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-06						OLD-08-07	
Sample ID			08G00601	NTC08G00610	NTC08G00611	NTC08G0612	NTC08G00613	NTC08G00614	08G00701	NTC08G00710
Lab ID	Florida	NTC	873268	F3841-1	A9G300236004	A9J210106008	A0A240125017	A0D180174008	873267	F3849-1
Sample Date	GCTL[b]	BGSV[c]	10/23/97	3/11/99	7/29/99	10/19/99	1/20/00	4/15/00	10/23/97	3/15/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA		NA
1-Methylnaphthalene	20		NA						NA	
2,4,5-Trichlorophenol										
2,4,6-Trichlorophenol	3.2									
2,4-Dichlorophenol	0.5									
2,4-Dimethylphenol	140									
2-Methylnaphthalene	20									
2-Methylphenol	35									
4-Methylphenol	4									
Acenaphthene	20									
Bis(2-ethylhexyl)phthalate	6									
Naphthalene	20									
Pentachlorophenol	1									
Phenol	10									
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA		NA
4,4'-DDD	0.1									
4,4'-DDE	0.1									
4,4'-DDT	0.1									
Aldrin	0.005									
alpha-BHC	0.2									
alpha-Chlordane[d]	2									
delta-BHC	2.1									
Dieldrin	0.005									
Endosulfan	42									
Endosulfan II[d]	42									
Endosulfan Sulfate	*									
Endrin	2									
Endrin Aldehyde	*									
gamma-BHC (Lindane)	0.2									
gamma-Chlordane[d]	2									
Toxaphene	3									
Herbicides (µg/L)					NA	NA	NA	NA		
2,4,5-TP (Silvex)	50									
2,4-D	70		0.22 J							
2,4-DB	56		0.57 J							
Dalapon	200									
Dicamba	210									
Dichloroprop	35									
Dinoseb	7		0.28 J							
MCPA	3.5									
MCPP	7									
Pentachlorophenol	1									
Inorganics (µg/L)										
Aluminum	200	4067		150	744 J	94.6				
Antimony	6	4.1						2.5		
Arsenic	50	5	**53**	**88.5**	**138**	**71.8**	**73.4**	42.3	**56.4**	47.9
Arsenic (III)										
Arsenic (V)										
Barium	2000	31.4	12.3 J	27.8 J	38.3	7.4	2.9		8 J	
Cadmium	5	5.6								
Calcium	*	36830	28100	21000	67800 J	30800	29500	20300	45300	26800 J
Chromium	100	7.8	3.4 J	22.0		4.9	3.6		1.1 J	
Cobalt	420	*								
Copper	1000	5.4	6.7 J	13.3	13.3	4.6			3.3 J	8.6
Iron	300	1227	198	**33300**		185	97.3	152	529	
Lead	15	4	6.6	13.2	9.8					
Magnesium	*	4560		2610	5720	2030	2070	1690		2750 J
Manganese	50	17	24.2	**110**	**69.6**	11.7		5.9	11 J	
Mercury	2	0.12								
Nickel	100	*		16.8						
Potassium	*	5400	11700	5450	13200	3270	3350	2150	11000	3140 J
Selenium	50	9.7								
Silver	100	*								
Sodium	160000	18222		4690	3630	1200	1670	1420		3930
Vanadium	49	20.6	2 J	0.53		3.7			1.8 J	
Zinc	5000	4		38.2 J	177					
General Chemistry (mg/L)				NA	NA	NA	NA	NA		NA
Total Organic Carbon			33.7						22.9	
Total Suspended Solids										

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-08						
Sample ID			08G00801	08G00801D	NTC08G00810	NTC08G00811	NTC08G0812	NTC08G00813	NTC08G00814
Lab ID	Florida	NTC	873069	873074	F3841-3	A9H030166007	A9J210106002	A0A240125014	A0D180174003
Sample Date	GCTL[b]	BGSV[c]	10/22/97	10/22/97	3/11/99	8/1/99	10/19/99	1/20/00	4/15/00
Semivolatiles/PAHs (µg/L)					NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA	NA					
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)					NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4 5-TP (Silvex)	50								
2,4-D	70		0.12 J	0.11 J					
2,4-DB	56		0.16 J	0.11 J					
Dalapon	200								
Dicamba	210								
Dichloroprop	35		0.69 J	0.66 J					
Dinoseb	7								
MCPA	3.5							180 J	
MCPP	7			710 J		99 J			
Pentachlorophenol	1					NA	NA		
Inorganics (µg/L)									
Aluminum	200	4067							
Antimony	6	4.1					10.1		4.9
Arsenic	50	5	122	120	175	154	194	214	200
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	26.6 J	26.1 J	10.4 J	18.9	37.3	14.3	6.7
Cadmium	5	5.6							
Calcium	*	36830	131000	134000	58800	71400	116000	106000	79300
Chromium	100	7.8							
Cobalt	420	*							
Copper	1000	5.4	1.5 J	1.4 J	7.1				
Iron	300	1227				370			
Lead	15	4							
Magnesium	*	4560			2620	2550	4600	4080	3400
Manganese	50	17	6.3 J	6.4 J	3.4				
Mercury	2	0.12							
Nickel	100	*			2.5				
Potassium	*	5400	8670	8900	8780	7600	11100	9890	6550
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222			5310	3840	4830	2270	1810
Vanadium	49	20.6			0.96		0.62		
Zinc	5000	4			42.1 J				
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			20.7						
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-09		OLD-08-10				
Sample ID			08F00901	08G00901	08G01001	NTC08G01010	NTC08G01011	NTC08G1012	NTC08G01013
Lab ID	Florida	NTC	873053	873070	873269	F3846-3	A9H020124009	A9J220158006	A0A240125010
Sample Date	GCTL[b]	BGSV[c]	10/22/97	10/22/97	10/23/97	3/12/99	7/30/99	10/21/99	1/20/00
Semivolatiles/PAHs (µg/L)			NA			NA	NA	NA	NA
1-Methylnaphthalene	20			NA	NA				
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			NA			NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA						
2,4,5-TP (Silvex)	50								
2,4-D	70			0.076 J					
2,4-DB	56			0.061 J					
Dalapon	200						2J		
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7				900 J				
Pentachlorophenol	1								
Inorganics (µg/L)								NA	
Aluminum	200	4067	252	372	514	409			
Antimony	6	4.1							
Arsenic	50	5	**96.4**	**117**	**209**	**122 J**	**189**	**276**	**166**
Arsenic (III)									
Arsenic (V)									
Barium	2000	31.4	4.9 J		15 J		8.8	9.7	16.2
Cadmium	5	5.6							
Calcium	*	36830	43300	45600	7230	17100	42800	53500	63000
Chromium	100	7.8	1.3 J				16.5		
Cobalt	420	*							
Copper	1000	5.4		1.2 J	6.5 J		1.7		
Iron	300	1227	410	455	825	**1400**		120	521
Lead	15	4							
Magnesium	*	4560				1970	3870	4740	5110
Manganese	50	17	18.9	18.5	**54.4**	**56.8**		29.3	**85.1**
Mercury	2	0.12							
Nickel	100	*	1.7 J						
Potassium	*	5400	4720 J	4980 J		822	3620	2680	762
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222				5910	9180	2750	7660
Vanadium	49	20.6	2.3 J	2.3 J	2.8 J		3.1		
Zinc	5000	4					13.6		
General Chemistry (mg/L)			NA			NA	NA	NA	NA
Total Organic Carbon				31.5	21.1				
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-10		OLD-08-11				
Sample ID			NTC08G01013-D	NTC08G01014	08G01101	NTC08G01110	NTC08G01111	NTC08G1112	NTC08G01113
Lab ID	Florida	NTC	A0A240125011	A0D180174006	873271	F3846-2	A9H020124010	A9J210106006	A0A240125015
Sample Date	GCTL[b]	BGSV[c]	1/20/00	4/15/00	10/23/97	3/12/99	7/30/99	10/19/99	1/20/00
Semivolatiles/PAHs (µg/L)			NA	NA		NA	NA	NA	NA
1-Methylnaphthalene	20				NA				
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			NA	NA		NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005				0.019 J				
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70				0.048 J				
2,4-DB	56								
Dalapon	200							1.3 J	
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								140 J
MCPP	7		46 J		660 J		110 J		
Pentachlorophenol	1							NA	
Inorganics (µg/L)									
Aluminum	200	4067		379		171		404	
Antimony	6	4.1		2.6					
Arsenic	50	5	172	122	223	315 J	170	114	823
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	16.7	13.6		63.4 J		3.8	2
Cadmium	5	5.6							
Calcium	*	36830	65100	24600	89800	60000	64700	34100	50200
Chromium	100	7.8						3.6	3.6
Cobalt	420	*							
Copper	1000	5.4			0.9 J				
Iron	300	1227	535	809					68
Lead	15	4							
Magnesium	*	4560	5270	2060		4740	4300	2740	4500
Manganese	50	17	87	65.9	5.3 J	6.4			7.2
Mercury	2	0.12							
Nickel	100	*							
Potassium	*	5400	783	532	11600	5130	10600	6990	10900
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	7930	5650		7330	9370	5570	5070
Vanadium	49	20.6							
Zinc	5000	4							
General Chemistry (mg/L)			NA	NA		NA	NA	NA	NA
Total Organic Carbon					20.9				
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-11		OLD-08-12		OLD-08-13		
Sample ID			NTC08G01114	NTC08G01114-D	08F01201	08G01201	08F01301	08G01301	NTC08G01310
Lab ID	Florida	NTC	A0D180174013	A0D180174015	873265	873266	876944	876943	F3849-3
Sample Date	GCTL[b]	BGSV[c]	4/16/00	4/16/00	10/23/97	10/23/97	12/5/97	12/5/97	3/15/99
Semivolatiles/PAHs (µg/L)			**NA**	**NA**	**NA**		**NA**		**NA**
1-Methylnaphthalene	20					NA		NA	
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			**NA**	**NA**	**NA**		**NA**		**NA**
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1							0.0051 J	
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)					**NA**		**NA**		
2,4,5-TP (Silvex)	50								
2,4-D	70					0.082 J		0.16 J	
2,4-DB	56							0.31 J	
Dalapon	200								
Dicamba	210								
Dichloroprop	35							0.4 J	
Dinoseb	7								
MCPA	3.5							**660 J**	
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	194	195	412	1450	529	1870	527
Antimony	6	4.1	3.2						
Arsenic	50	5	**959**	**991**			**71.1**	**88.2**	19.0
Arsenic (III)									
Arsenic (V)									
Barium	2000	31.4			18.2 J	38.5 J	25.6 J	42.1 J	76.4 J
Cadmium	5	5.6							
Calcium	*	36830	41000	42200			11400	12900	9170 J
Chromium	100	7.8	3.5	5.3		0.83 J			
Cobalt	420	*					1.5 J	1.9 J	
Copper	1000	5.4	9.2	6.6	0.95 J	1.5 J	4.5 J	5.5 J	23.1
Iron	300	1227	44.5	51.6	**4080**	**5800**	293	447	**2470 J**
Lead	15	4						3.2	6.5
Magnesium	*	4560	3890	4040					1770 J
Manganese	50	17	5.4	5.7	**51**	**71.8**	**94.1**	**148**	**124 J**
Mercury	2	0.12	0.05						
Nickel	100	*		2.9			7.3 J	9.6 J	
Potassium	*	5400	12100	12600					848 J
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	3940	4130					8490
Vanadium	49	20.6			2.6 J	4.2 J	1.2 J	2 J	
Zinc	5000	4							
General Chemistry (mg/L)			**NA**	**NA**	**NA**		**NA**		**NA**
Total Organic Carbon						8.47		22.1	
Total Suspended Solids						8		22	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-13				
Sample ID			NTC08G01311	NTC08G01311-D	NTC08G1312	NTC08G01313	NTC08G01314
Lab ID	Florida	NTC	A9H030166001	A9H030166002	A9J220158005	A0A250128011	A0D180174007
Sample Date	GCTL[b]	BGSV[c]	7/31/99	7/31/99	10/21/99	1/22/00	4/15/00
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA
1-Methylnaphthalene	20						
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Acenaphthene	20						
Bis(2-ethylhexyl)phthalate	6						
Naphthalene	20						
Pentachlorophenol	1						
Phenol	10						
Pesticides/PCBs (µg/L)			NA	NA	NA	NA	NA
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)			NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	50						
2,4-D	70						
2,4-DB	56						
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5						
MCPP	7						
Pentachlorophenol	1						
Inorganics (µg/L)							
Aluminum	200	4067	823	729	447	504	1450
Antimony	6	4.1					
Arsenic	50	5	24.3	22.6	30.7	20.7	20.5
Arsenic (III)							
Arsenic (v)							
Barium	2000	31.4	17.9	17.7	16.6	13.4	20.8
Cadmium	5	5.6					
Calcium	*	36830	12100	11500	14000	10100	11000
Chromium	100	7.8					
Cobalt	420	*	0.98		0.96		
Copper	1000	5.4	1.9	1.4			7.3
Iron	300	1227	**1660**	**1650**	**2150**	**1250**	**1800**
Lead	15	4					2.6
Magnesium	*	4560	2320	2230	3140	2140	2380
Manganese	50	17	**68.1**	**88.7**	**75.1**	42.8	**64**
Mercury	2	0.12					0.04
Nickel	100	*					3.7
Potassium	*	5400	277	284	669		875
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222	7980	7720	7200	11300	10300
Vanadium	49	20.6	1.4	0.92	0.72		2.1
Zinc	5000	4				29	
General Chemistry (mg/L)			NA	NA	NA	NA	NA
Total Organic Carbon							
Total Suspended Solids							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-14				
Sample ID			08G01401	NTC08G01410	NTC08G01411	NTC08G1412	NTC08G01413
Lab ID	Florida	NTC	878090	F3849-2	A9H030166003	A9J210231004	A0A250128012
Sample Date	GCTL[b]	BGSV[c]	12/8/97	3/15/99	7/31/99	10/20/99	1/22/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA
1-Methylnaphthalene	20		NA				
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Acenaphthene	20						
Bis(2-ethylhexyl)phthalate	6						
Naphthalene	20						
Pentachlorophenol	1						
Phenol	10						
Pesticides/PCBs (µg/L)				NA	NA	NA	NA
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*		0.0066 J				
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)							
2,4,5-TP (Silvex)	50						
2,4-D	70						
2,4-DB	56						
Dalapon	200		1.4 J		7.5 J		
Dicamba	210						
Dichloroprop	35		0.14 J				
Dinoseb	7						
MCPA	3.5						
MCPP	7		**200 J**		**190 J**		
Pentachlorophenol	1				NA	NA	
Inorganics (µg/L)							
Aluminum	200	4067	1380 J	1800	1340	2230	1910
Antimony	6	4.1				**11.2**	
Arsenic	50	5	7.1 J	9.5	**100**	**224**	**85.5**
Arsenic (III)							
Arsenic (v)							
Barium	2000	31.4	39.2 J	99.5 J	53.3	20.7	16
Cadmium	5	5.6				0.96	
Calcium	*	36830	34200	12200 J	65600	30500	10800
Chromium	100	7.8				6.7	
Cobalt	420	*	2.3 J		2.2	2.2	
Copper	1000	5.4	9.5 J	17.5	4.3	56.5	58.9
Iron	300	1227	**1730 J**	**7340 J**	**5190**	**10500**	**6320**
Lead	15	4	3.1	**21.1**	**34.8**	**151**	**32**
Magnesium	*	4560		3190 J	20000	6670	2200
Manganese	50	17	**172**	**132 J**	**304**	**119**	**83.7**
Mercury	2	0.12					0.069
Nickel	100	*	5.8 J			85	
Potassium	*	5400		1240 J	1050	4070	1730
Selenium	50	9.7					
Silver	100	*				2.4	
Sodium	160000	18222		15600	41200	31200	15000
Vanadium	49	20.6	2.5 J		4.7	7	4.2
Zinc	5000	4			439	341	94.2
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			46.8				
Total Suspended Solids			20				

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-15						
Sample ID			08G01501	NTC08G01510	NTC08G01511	NTC08G01511-D	NTC08G1512	NTC08G01513	NTC08G01514
Lab ID	Florida	NTC	876942	F3846-1	A9H030166005	A9H030166006	A9J210231006	A0A250128009	A0D180174011
Sample Date	GCTL[b]	BGSV[c]	12/5/97	3/13/99	8/1/99	8/1/99	10/20/99	1/22/00	4/15/00
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA						
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1		0.0077 J						
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70		0.16 J						
2,4-DB	56		0.29 J						
Dalapon	200				36 J				
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5		1200 DJ						
MCPP	7					280 J		68	
Pentachlorophenol	1				NA	NA	NA		
Inorganics (µg/L)									
Aluminum	200	4067	1420	811	2430	2360	4010	1550	732
Antimony	6	4.1					4.9		
Arsenic	50	5			3.6	2.5	14.7	5.6	4.1
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	21.6 J		15.4	13.9	7.3	8.3	22
Cadmium	5	5.6							
Calcium	*	36830	18100	5440	8880	8590	7510	5160	7050
Chromium	100	7.8					2.1		
Cobalt	420	*	1.2 J						
Copper	1000	5.4	8.3 J		2.6	1.5	6.7		
Iron	300	1227	498	1960	853	806	652	1020	2000
Lead	15	4	2.3 J				28.5	2.1	
Magnesium	*	4560		2810	4040	4000	3250	2300	3930
Manganese	50	17	72.9	83.9	32.6	30.1			38.7
Mercury	2	0.12							0.05
Nickel	100	*	5.9 J						2.1
Potassium	*	5400		806	2010	1890	3860	2830	385
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	28900	13200	30600	28500	40900	26100	17400
Vanadium	49	20.6	3 J		2.5	2.9	3	2.4	
Zinc	5000	4			11.7				
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			27.2						
Total Suspended Solids			13						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-16	OLD-08-17					
Sample ID			08G01601	08G01701	NTC08G01710	NTC08G01711	NTC08G1712	NTC08G01713	NTC08G01714
Lab ID	Florida	NTC	882951	882943	F3641-2	A9H020124011	A9J210106001	A0A240125016	A0D180174002
Sample Date	GCTL[b]	BGSV[c]	2/18/98	2/18/98	3/11/99	7/30/99	10/19/99	1/20/00	4/15/00
Semivolatiles/PAHs (µg/L)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
1-Methylnaphthalene	20								
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			**NA**	**NA**		**NA**	**NA**	**NA**	**NA**
2,4,5-TP (Silvex)	50								
2,4-D	70								
2,4-DB	56								
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	454	88.3 J	88.1				
Antimony	6	4.1				**12.2**	4.6		
Arsenic	50	5	3.9 J	**98.8**	**187**	**191**	**158**	**145**	**150**
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	27.7 J	20 J		18.7	29.8	10.1	
Cadmium	5	5.6							
Calcium	*	36830			38300	53500	99300	66800	58400
Chromium	100	7.8					2.3	2.8	
Cobalt	420	*	1.9 J						
Copper	1000	5.4			5.5	3	2.4		
Iron	300	1227	580				257		
Lead	15	4					13.4	1.9	
Magnesium	*	4560			2220	2180	3820	3080	2940
Manganese	50	17	**184**		10.1		**59.1**		
Mercury	2	0.12							
Nickel	100	*	11.4 J	4.4 J	8.0				
Potassium	*	5400		10900	7580	12100	6640	4600	6440
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222			6340	4770	2730	2140	1850
Vanadium	49	20.6	3.5 J	4.4 J		10.3	4.1	5	
Zinc	5000	4			30.2 J				
General Chemistry (mg/L)					**NA**	**NA**	**NA**	**NA**	**NA**
Total Organic Carbon			25.2	19.9					
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-18					OLD-08-19	OLD-08-20
Sample ID			08G01801	NTC08G01811	NTC08G1812	NTC08G01813	NTC08G01814	NTC08G01914	NTC08G02014
Lab ID	Florida	NTC	882980	A9H030166004	A9J210231005	A0A250128010	A0D180174016	A0D180174012	A0D180174014
Sample Date	GCTL[b]	BGSV[c]	2/19/98	7/31/99	10/20/99	1/22/00	4/16/00	4/15/00	4/16/00
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20								
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA	NA					
2,4,5-TP (Silvex)	50								
2,4-D	70								
2,4-DB	56								
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7				180 J				
MCPA	3.5								
MCPP	7					50 J			
Pentachlorophenol	1				NA				0.07 J
Inorganics (µg/L)									
Aluminum	200	4067	87.3 J	1780	835	574	700	2790	524
Antimony	6	4.1	2.9 J						
Arsenic	50	5						2.9	
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	12.1 J	42.8	35.6	30.9	29.3	18.5	7.2
Cadmium	5	5.6							
Calcium	*	36830		5910	5240	5130	4910	12200	19000
Chromium	100	7.8			3			3.2	
Cobalt	420	*		0.95					
Copper	1000	5.4		2.5	2.8			5.1	
Iron	300	1227	550	3550	3360	3260	2850	135	
Lead	15	4			1.6			4.7	
Magnesium	*	4560		1730	1880	1910	2400	2130	3740
Manganese	50	17		204	185	164	141		
Mercury	2	0.12							
Nickel	100	*	3 J				2.5		
Potassium	*	5400		741	801	1010	1090	1610	1760
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		9730	8770	7620	8590	9860	6820
Vanadium	49	20.6	2.4 J	6.2	4.6	5.9	5.5		
Zinc	5000	4							
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			23.5						
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-21	OLD-09-01				
Sample ID			NTC08G02114	09G00102	NTC09G00110	NTC09G00111	NTC09G0112	NTC09G0112-D
Lab ID	Florida	NTC	A0D180174017	872936	F3846-B	A9H050202002	A9J220158002	A9J220158003
Sample Date	GCTL[b]	BGSV[c]	4/16/00	10/20/97	3/13/99	8/4/99	10/21/99	10/21/99
Semivolatiles/PAHs (µg/L)			**NA**			**NA**	**NA**	**NA**
1-Methylnaphthalene	20			NA	NA			
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20							
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)			**NA**		**(e)**	**(e)**	**(e)**	**(e)**
4,4'-DDD	0.1							
4,4'-DDE	0.1			0.1 J				
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2					0.067 J	0.034 J	
Toxaphene	3					2.1 J		
Herbicides (µg/L)								
2,4,5-TP (Silvex)	50							
2,4-D	70			0.0018 J				
2,4-DB	56			0.42 J				
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5			640				
MCPP	7							
Pentachlorophenol	1					NA		
Inorganics (µg/L)								
Aluminum	200	4067	661	318	102			
Antimony	6	4.1						
Arsenic	50	5	2.6	13.2	31.8 J	34.9	30	30.8
Arsenic (III)								
Arsenic (v)								
Barium	2000	31.4	5.5	24.5 J		53.5	55.4	55
Cadmium	5	5.6						
Calcium	*	36830	3640	24600	119000	79900	94400	93700
Chromium	100	7.8		0.81 J	15.3			
Cobalt	420	*						
Copper	1000	5.4				0.85		
Iron	300	1227	105	391		289	285	283
Lead	15	4						
Magnesium	*	4560	2980		10200	6640	6550	6530
Manganese	50	17		6.7 J	16.1		18.1	19.4
Mercury	2	0.12	0.06					
Nickel	100	*		2.5 J	7.9			
Potassium	*	5400	987		12200	8180 J	5200	5140
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222	7290		2000	2350	1520	1520
Vanadium	49	20.6	2.8				0.58	
Zinc	5000	4						
General Chemistry (mg/L)			**NA**		**NA**	**NA**	**NA**	**NA**
Total Organic Carbon				37.2				
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-01			OLD-09-02			
Sample ID			NTC09G00113	NTC09G00114	NTC09G00114-D	09G00202	09G00202D	NTC09G00210	NTC09G00211
Lab ID	Florida	NTC	A0A250128004	A0D150148003	A0D150148004	872937	872939	F3846-9	A9H040126009
Sample Date	GCTL[b]	BGSV[c]	1/22/00	4/13/00	4/13/00	10/20/97	10/20/97	3/13/99	8/3/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA				NA
1-Methylnaphthalene	20					NA	NA	NA	
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140						2 J		
2-Methylnaphthalene	20								
2-Methylphenol	35						1 J		
4-Methylphenol	4						3 J		
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10						2 J		
Pesticides/PCBs (µg/L)			(e)	(e)	(e)			(e)	(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								0.047 J
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2			0.04 J	0.044 J				
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70								
2,4-DB	56					0.44 J	0.33 J		
Dalapon	200								
Dicamba	210								
Dichloroprop	35						3.1 J		
Dinoseb	7								
MCPA	3.5					**870 J**	**670 J**		
MCPP	7					**840 J**			
Pentachlorophenol	1								NA
Inorganics (µg/L)									
Aluminum	200	4067				731	781	1810	2140 J
Antimony	6	4.1							
Arsenic	50	5	20.5	18.2	18.1				
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	55.4	46.9	46.4	1.8 J	2.4 J		
Cadmium	5	5.6							
Calcium	*	36830	97700	122000	121000	5830	6350	7500	10100
Chromium	100	7.8				1.3 J	1.1 J		
Cobalt	420	*							
Copper	1000	5.4							3.8
Iron	300	1227	331	304	307				
Lead	15	4							
Magnesium	*	4560	5790	7220	7170			1630	2240
Manganese	50	17	22.1	25.1	24.9				
Mercury	2	0.12							
Nickel	100	*							1.6
Potassium	*	5400	6310	6170	6160			2970	2500 J
Selenium	50	9.7						3.5	
Silver	100	*				1.1 J			
Sodium	160000	18222		1500	1550			2500	5690
Vanadium	49	20.6				0.73 J	0.73 J		
Zinc	5000	4							43.6
General Chemistry (mg/L)			NA	NA	NA		NA	NA	NA
Total Organic Carbon						34.5			
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-02			OLD-09-03			
Sample ID			NTC09G0212	NTC09G00213	NTC09G00214	09G00302	NTC09G00311	NTC09G0312	NTC09G0312-D
Lab ID	Florida	NTC	A9J230148006	A0A250128005	A0D150148005	872938	A9H050202001	A9J210231001	A9J210231002
Sample Date	GCTL[b]	BGSV[c]	10/22/99	1/22/00	4/13/00	10/20/97	8/4/99	10/20/99	10/20/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA				
1-Methylnaphthalene	20					NA		NA	NA
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20					1 J			
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			(e)	(e)	(e)		(e)	(e)	(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1					0.0039 J			
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70					0.0035 J			
2,4-DB	56					0.17 J			
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7								
Pentachlorophenol	1							NA	NA
Inorganics (µg/L)									
Aluminum	200	4067	1510	1380	1490	471	452 J	455	472
Antimony	6	4.1							
Arsenic	50	5							
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	2.7			4 J		2.2	2.9
Cadmium	5	5.6							
Calcium	*	36830	5540	6710	7780	10600	11200	11000	11300
Chromium	100	7.8	2.7			0.88 J			
Cobalt	420	*							0.82
Copper	1000	5.4					0.96		
Iron	300	1227	121		151			131	139
Lead	15	4	1.8						
Magnesium	*	4560	1230	1520	1960		2230	2300	2370
Manganese	50	17							
Mercury	2	0.12							
Nickel	100	*							
Potassium	*	5400	3580	3140	3050		3420 J	3650	3770
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	4200		1720		2710	2360	2530
Vanadium	49	20.6	1.5						0.7
Zinc	5000	4							
General Chemistry (mg/L)			NA	NA	NA		NA	NA	NA
Total Organic Carbon						47.5			
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-03			OLD-09-04			
Sample ID			NTC09G00313	NTC09G00314	NTC09G00314-D	09F00402	09G00402	NTC09G00410	NTC09G00411
Lab ID	Florida	NTC	A0A250149003	A0D150148006	A0D150148007	872971	872975	F3846-10	A9H050202003
Sample Date	GCTL[b]	BGSV[c]	1/23/00	4/13/00	4/13/00	10/21/97	2/12/98	3/13/99	8/4/99
Semivolatiles/PAHs (µg/L)						NA			
1-Methylnaphthalene	20						NA	NA	3.9 J
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5						2 J		
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20						14 J		2 J
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6		8.9 J						
Naphthalene	20						6 J	3.3 J	0.96 J
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			(e)	(e)	(e)	NA		(e)	(e)
4,4'-DDD	0.1						0.088 J		
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005						0.051 J		
alpha-BHC	0.2								
alpha-Chlordane[d]	2							0.34 J	
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42						0.094 J		
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2						0.011 J		
gamma-Chlordane[d]	2						0.67	0.43 J	
Toxaphene	3								
Herbicides (µg/L)						NA			
2,4 5-TP (Silvex)	50								
2,4-D	70						0.099 J		
2,4-DB	56						1.8 J		
Dalapon	200								9.9 J
Dicamba	210								
Dichloroprop	35								
Dinoseb	7						0.098 J		
MCPA	3.5						3100 J		
MCPP	7						1900 J		170 J
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	350			373	448	176	
Antimony	6	4.1				3.5 J			
Arsenic	50	5				232	284	186 J	1370
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	2.4			8.6 J	8.6 J		17.8
Cadmium	5	5.6							
Calcium	*	36830	11100	10400	10300	48000	43800	41600	52100
Chromium	100	7.8				1.7 J	1.6 J		
Cobalt	420	*				0.75 J			
Copper	1000	5.4				42.7	56		4.2
Iron	300	1227	133	151	157	1380	1290	861	6350
Lead	15	4				4.2	6.1		
Magnesium	*	4560	2160	2130	2140			2020	3000
Manganese	50	17				62.7	53.7	63.1	79.9
Mercury	2	0.12				0.12 J	0.11 J		
Nickel	100	*				2 J	2.2 J		
Potassium	*	5400	3510	3290	3260			6680	7490 J
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	1980	1670	1670			1700	1440
Vanadium	49	20.6				1.5 J	0.99 J		
Zinc	5000	4							
General Chemistry (mg/L)			NA	NA	NA	NA		NA	NA
Total Organic Carbon							54.6		
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-04			OLD-09-05			
Sample ID			NTC09G0412	NTC09G00413	NTC09G00414	09G00501	NTC09G00510	NTC09G00510-D	NTC09G00511
Lab ID	Florida	NTC	A9J220158004	A0A250149001	A0D150148008	872976	F3849-6	F3849-7	A9H040126007
Sample Date	GCTL[b]	BGSV[c]	10/21/99	1/22/00	4/13/00	10/21/97	3/15/99	3/15/99	8/3/99
Semivolatiles/PAHs (µg/L)									NA
1-Methylnaphthalene	20		NA	2.5		NA	NA	NA	
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20			1.7 J					
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20			0.74 J					
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20			3					
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			(e)	(e)	(e)		(e)	(e)	(e)
4,4'-DDD	0.1					0.029 J			
4,4'-DDE	0.1				**0.76 J**	0.0081 J			
4,4'-DDT	0.1								
Aldrin	0.005				**0.48 J**				
alpha-BHC	0.2								
alpha-Chlordane[d]	2			0.15 J	0.56	0.11 J			
delta-BHC	2.1					0.021 J			
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2				0.16	0.022 J			
Endrin Aldehyde	*				0.24 J				
gamma-BHC (Lindane)	0.2					0.0076 J			
gamma-Chlordane[d]	2			0.063	0.7 J	0.17			
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70			0.085 J		0.11 J			
2,4-DB	56					0.83 J			
Dalapon	200					*			
Dicamba	210		0.4 J	0.14 J	0.27 J				
Dichloroprop	35								
Dinoseb	7			0.19 J					
MCPA	3.5					**2900 J**			
MCPP	7		**520**			**830 J**			
Pentachlorophenol	1		0.06 J						NA
Inorganics (µg/L)									
Aluminum	200	4067	253	29.5		224			
Antimony	6	4.1							3.1
Arsenic	50	5	**650**	**225**	**266**	**61.3**	**152**	**153**	**475**
Arsenic (III)									
Arsenic (V)									
Barium	2000	31.4	9.5	12.1		7.6 J			8.8
Cadmium	5	5.6							
Calcium	*	36830	30800	42800	37400	53400	62500 J	64300 J	94500
Chromium	100	7.8				1.4 J			
Cobalt	420	*							
Copper	1000	5.4	3.2		5.2				
Iron	300	1227	**1940**	**2160**	**1900**	188	962 J	966 J	
Lead	15	4					1.6	2.1	
Magnesium	*	4560	1980	3260	3260		5080 J	5210 J	5870
Manganese	50	17	35.3	**58**	47.6	11.3 J	27.4 J	27.8 J	12
Mercury	2	0.12							
Nickel	100	*							
Potassium	*	5400	5550	7430	7190		12100 J	12000 J	8570 J
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	678	1050			3630	3910	3620
Vanadium	49	20.6				3.4 J			
Zinc	5000	4							55.2
General Chemistry (mg/L)			NA	NA	NA		NA	NA	NA
Total Organic Carbon						33.1			
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-05				OLD-09-06		
Sample ID			NTC09G0512	NTC09G00513	NTC09G00513-D	NTC09G00514	09F00601	09G00601	NTC09G00610
Lab ID	Florida	NTC	A9J230148001	A0A250128001	A0A250128003	A0D150148009	872655	872659	F3854-1
Sample Date	GCTL[b]	BGSV[c]	10/22/99	1/22/00	1/22/00	4/14/00	10/17/97	10/17/97	3/16/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA		
1-Methylnaphthalene	20							NA	NA
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			(e)	(e)	(e)	(e)	NA		(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1							0.0067 J	
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005							**0.012 J**	
Endosulfan	42								
Endosulfan II[d]	42							0.0093 J	
Endosulfan Sulfate	*								
Endrin	2							0.019 J	
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2							0.03 J	
Toxaphene	3								
Herbicides (µg/L)							NA		
2,4,5-TP (Silvex)	50								
2,4-D	70							0.9 J	
2,4-DB	56								
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7			**67 J**	**32 J**				
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067						538	797
Antimony	6	4.1					5.1 J		
Arsenic	50	5	**101**	**72.4**	**72.3**	**104**	**51.5**	**53**	**54.6**
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	28.1	9	9		13.7 J	9.5 J	
Cadmium	5	5.6							
Calcium	*	36830	105000	70900	68300	49000	53400	55000	21000 J
Chromium	100	7.8					0.85 J	1 J	
Cobalt	420	*					1.5 J		
Copper	1000	5.4					6.3 J		
Iron	300	1227	157			301	740	638	1120 J
Lead	15	4							
Magnesium	*	4560	6580	6090	5870	4420			2360 J
Manganese	50	17	33.6				39	32.9	39.6 J
Mercury	2	0.12		0.052					
Nickel	100	*					2.7 J		
Potassium	*	5400	4610	9830	9380	8170			2820
Selenium	50	9.7							
Silver	100	*					0.95 J		
Sodium	160000	18222	2710			1370			2740
Vanadium	49	20.6	0.59	2.5	2.4		1.7 J	0.86 J	
Zinc	5000	4							
General Chemistry (mg/L)			NA	NA	NA	NA	NA		NA
Total Organic Carbon								24.3	
Total Suspended Solids								20	

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-06				OLD-09-07		
Sample ID			NTC09G00611	NTC09G0612	NTC09G00613	NTC09G00614	09F00701	09G00701	NTC09G00710
Lab ID	Florida	NTC	A9H040126003	A9J230148003	A0A250128007	A0D150148010	872972	872977	F3854-4
Sample Date	GCTL[b]	BGSV[c]	8/3/99	10/22/99	1/22/00	4/13/00	10/21/97	10/21/97	3/16/99
Semivolatiles/PAHs (µg/L)			**NA**	**NA**	**NA**	**NA**	**NA**		
1-Methylnaphthalene	20							NA	NA
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			**(e)**	**(e)**	**(e)**	**(e)**	**NA**		**(e)**
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1					0.053 J			
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)							**NA**		
2,4 5-TP (Silvex)	50					0.52 J			
2,4-D	70							0.0047 J	
2,4-DB	56							0.18 J	
Dalapon	200								
Dicamba	210					8.7 J			
Dichloroprop	35			**120 J**					
Dinoseb	7								
MCPA	3.5								
MCPP	7							**1100 J**	
Pentachlorophenol	1		NA						
Inorganics (µg/L)									
Aluminum	200	4067				1400	1600	2040	1500
Antimony	6	4.1							
Arsenic	50	5	**191**	**94.1**	42.9	**50.5**			
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	11	27.2	8.2		11.5 J	13.8 J	
Cadmium	5	5.6							
Calcium	*	36830	62600	72300	43000	12000			10200 J
Chromium	100	7.8					2.6 J	3.7 J	
Cobalt	420	*						1.1 J	
Copper	1000	5.4							
Iron	300	1227	465	797	419	749	**1640**	**1870**	**1840 J**
Lead	15	4							
Magnesium	*	4560	3090	2620	3220	2240			1760 J
Manganese	50	17	35.4	**56.3**	**63.6**	15.9	38.4	48.9	19.7 J
Mercury	2	0.12							
Nickel	100	*					4.9 J	5.4 J	
Potassium	*	5400	3010 J	8440	3980	2660			2360
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	2340	4140		4190			3950
Vanadium	49	20.6		0.92		2.8	0.8 J	1.3 J	
Zinc	5000	4							
General Chemistry (mg/L)			**NA**	**NA**	**NA**	**NA**	**NA**		**NA**
Total Organic Carbon								41.1	
Total Suspended Solids									

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-07				OLD-09-08	OLD-09-09
Sample ID	Florida GCTL[b]	NTC BGSV[c]	NTC09G00711	NTC09G0712	NTC09G00713	NTC09G00714	09G00801	09G00901
Lab ID			A9H040126001	A9J260203001	A0A250128002	A0D150148011	873307	873310
Sample Date			8/3/99	10/23/99	1/22/00	4/13/00	10/24/97	10/24/97
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA		
1-Methylnaphthalene	20						NA	NA
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20							
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)			(e)	(e)	(e)	(e)		
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)								
2,4,5-TP (Silvex)	50							
2,4-D	70						0.21 J	0.24 J
2,4-DB	56							
Dalapon	200							
Dicamba	210		0.87 J					
Dichloroprop	35						0.59 J	0.37 J
Dinoseb	7							0.099 J
MCPA	3.5							
MCPP	7		**910 J**					
Pentachlorophenol	1		NA					
Inorganics (µg/L)								
Aluminum	200	4067	1180 J	547	586	945	290	243
Antimony	6	4.1						3.5 J
Arsenic	50	5	5.3	2.3	3			
Arsenic (III)								
Arsenic (v)								
Barium	2000	31.4		6.4	5.1		12.5 J	
Cadmium	5	5.6						
Calcium	*	36830	10200	8760	8000	5890	17900	31100
Chromium	100	7.8	8.6			3.2		
Cobalt	420	*						1 J
Copper	1000	5.4	5.1	4.1			0.76 J	2.6 J
Iron	300	1227		470		366	1000	200
Lead	15	4		1.4				
Magnesium	*	4560	1110	790	826	811		
Manganese	50	17					**53.6**	3 J
Mercury	2	0.12						
Nickel	100	*	5.8					
Potassium	*	5400	588 J	895	968	720		
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222	6340	1450		1510		
Vanadium	49	20.6		1.7	3.1	2.1	0.91 J	1.8 J
Zinc	5000	4	70.4	33 J	37.6			
General Chemistry (mg/L)			NA	NA	NA	NA		
Total Organic Carbon							47.8	62.3
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-10					
Sample ID			09G01001	NTC09G01010	NTC09G01011	NTC09G1012	NTC09G01013	NTC09G01014
Lab ID	Florida	NTC	872978	F3849-5	A9H040126008	A9J220158001	A0A250149004	A0D150148012
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/15/99	8/3/99	10/21/99	1/23/00	4/13/00
Semivolatiles/PAHs (µg/L)					NA	NA	NA	NA
1-Methylnaphthalene	20		NA	NA				
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20							
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)								
2,4,5-TP (Silvex)	50							
2,4-D	70							
2,4-DB	56		0.14 J					
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5					37 J		
MCPP	7							
Pentachlorophenol	1				NA			
Inorganics (µg/L)								
Aluminum	200	4067	212	502			228	
Antimony	6	4.1						
Arsenic	50	5						
Arsenic (III)								
Arsenic (V)								
Barium	2000	31.4	5.4 J			24.8	8.2	
Cadmium	5	5.6						
Calcium	*	36830	33700	23900 J	44700	81800	41300	26600
Chromium	100	7.8	0.91 J					
Cobalt	420	*						
Copper	1000	5.4						
Iron	300	1227	1030	959 J	570	630	1030	723
Lead	15	4					2.5	
Magnesium	*	4560		2690 J	2960	4640	2380	2420
Manganese	50	17	16.7	18.5 J	17.4	18.4		17.2
Mercury	2	0.12						
Nickel	100	*						
Potassium	*	5400		3000 J	2100 J	3420	4400	2980
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		2880	4020	3380	1980	1650
Vanadium	49	20.6				0.83		
Zinc	5000	4			43.8	83.1	121	
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			28					
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-11						
Sample ID			09G01101	NTC09G01110	NTC09G01111	NTC09G01111-D	NTC09G1112	NTC09G01113	NTC09G01114
Lab ID	Florida	NTC	872979	F3854-5	A9H040126004	A9H040126005	A9J210231003	A0A250128008	A0D150148013
Sample Date	GCTL[b]	BGSV[e]	10/21/97	3/16/99	8/3/99	8/3/99	10/20/99	1/22/00	4/13/00
Semivolatiles/PAHs (µg/L)					NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA	NA					
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1		0.0051 J						0.063 J
4,4'-DDT	0.1		0.0092 J						
Aldrin	0.005								
alpha-BHC	0.2		0.0042 J						0.092 J
alpha-Chlordane[d]	2					0.3 J	0.062 J	0.021 J	0.098 J
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*		0.078 J						
gamma-BHC (Lindane)	0.2		0.034 J	**0.40**	0.18 J	0.19 J	0.057 J	0.034 J	**1.3**
gamma-Chlordane[d]	2					0.21 J			0.065 J
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50								
2,4-D	70		1.4 J						0.19 J
2,4-DB	56		1 J						
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5								
MCPP	7		**1200 J**					**72 J**	
Pentachlorophenol	1				NA	NA	NA		
Inorganics (µg/L)									
Aluminum	200	4067	539						1440
Antimony	6	4.1			2.7	4			
Arsenic	50	5	**93.9**	**71.5**	**180**	**180**	44.9	41.4	34.1
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	6.8 J		18.1	18	10.5	16.3	15.5
Cadmium	5	5.6							
Calcium	*	36830	36900	32100 J	55000	54700	70800	74300	27700
Chromium	100	7.8	1 J	43.6	11.4				2.9
Cobalt	420	*							
Copper	1000	5.4							
Iron	300	1227	570	**1520 J**	**1490**	**1420**	833	**2220**	**1690**
Lead	15	4					1.9		11.2
Magnesium	*	4560		2100 J	2740	2720	3190	4020	1510
Manganese	50	17	11.6 J	**121 J**	22.3	21.5	25.7	34.5	28.8
Mercury	2	0.12							
Nickel	100	*		24.2	9.2				
Potassium	*	5400		6230	9220 J	9320 J	10200	9790	6960
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		2940	1240	1320	6440		1520
Vanadium	49	20.6					0.99		
Zinc	5000	4							
General Chemistry (mg/L)				NA	NA	NA	NA	NA	NA
Total Organic Carbon			36						
Total Suspended Solids			28						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-12					
Sample ID			09G01201	NTC09G01210	NTC09G01210-D	NTC09G01211	NTC09G01211-D	NTC09G1212
Lab ID	Florida	NTC	872980	F3854-6	F3854-7	A9H030173002	A9H030173004	A9J230148005
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/16/99	3/16/99	8/2/99	8/2/99	10/22/99
Semivolatiles/PAHs (µg/L)								
1-Methylnaphthalene	20		NA	NA	NA			NA
2,4,5-Trichlorophenol								
2,4,6-Trichlorophenol	3.2		2 J					
2,4-Dichlorophenol	0.5		**200**	**13.2**	**13.3**	**45**	**30**	**4.9 J**
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Acenaphthene	20							
Bis(2-ethylhexyl)phthalate	6							
Naphthalene	20		8 J	4.3 J	3.7 J	2.4	2.4	
Pentachlorophenol	1							
Phenol	10							
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2		**1 J**	**2.1**	**2.3**	**2.5 J**		**0.39**
alpha-Chlordane[d]	2		0.028 J					
delta-BHC	2.1		0.3					
Dieldrin	0.005							
Endosulfan	42		0.046 J					
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2		**0.69**	**3.0**	**3.2**	**1.9 J**	**1.7 J**	**0.46**
gamma-Chlordane[d]	2		0.013 J					
Toxaphene	3							
Herbicides (µg/L)				NA				
2,4,5-TP (Silvex)	50					1.6 J	1.5 J	
2,4-D	70		**110 J**			33 J	31 J	
2,4-DB	56							
Dalapon	200						21 J	
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5		**750 J**					
MCPP	7		**1500 J**			**190 J**	**220 J**	
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067	1030	1830	1340	1040 J	1710 J	103
Antimony	6	4.1						
Arsenic	50	5	**138**	**135**	**136**	**141**	**147**	**53.8**
Arsenic (III)								
Arsenic (v)								
Barium	2000	31.4	10.3 J			9.1	13.1	22.4
Cadmium	5	5.6						
Calcium	*	36830	11700	15700 J	15700 J	15900	16500	81100
Chromium	100	7.8	3.3 J					
Cobalt	420	*						0.83
Copper	1000	5.4	6.1 J				3.5	1.7
Iron	300	1227	540	**1390 J**	786 J	629	762	477
Lead	15	4	1.9 J					
Magnesium	*	4560		2340 J	2340 J	2220	2280	3990
Manganese	50	17	24.9	19.0 J	20.9 J	8.3	10.2	**134**
Mercury	2	0.12						
Nickel	100	*	3.4 J					
Potassium	*	5400		11100	11400	13200 J	13200 J	5980
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		2560	2510	2320	5850	1370
Vanadium	49	20.6	0.79 J					1.8
Zinc	5000	4				75.5	92	
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			38.5					
Total Suspended Solids								

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-12		OLD-09-13		OLD-09-14		
Sample ID			NTC09G01213	NTC09G01214	09G01301	NTC09G01310	09G01401	09G01401D	NTC09G01410
Lab ID	Florida	NTC	A0A250149005	A0D150148014	872981	F3854-3	876803	876821	F3849-4
Sample Date	GCTL[b]	BGSV[c]	1/23/00	4/13/00	10/21/97	3/16/99	12/4/97	12/4/97	3/15/99
Semivolatiles/PAHs (µg/L)									
1-Methylnaphthalene	20		0.58 J	0.46 J	NA	NA			NA
2,4,5-Trichlorophenol				1.4 J					
2,4,6-Trichlorophenol	3.2			1.2 J					
2,4-Dichlorophenol	0.5		11	2.3 J					
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20		0.67 J	0.75 J					
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20		1.9 J	2.3	2 J		180 D		67.5
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			(e)	(e)		(e)			(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2		1.4	4.2					
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42			1.2 J					
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2		1.5	5.7					
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4,5-TP (Silvex)	50		0.62 J	0.69 J					
2,4-D	70		8	6.2 J	0.0012 J		0.26 J		
2,4-DB	56				0.38 J		0.21 J		
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5						890 J	840 J	
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	477	1020	353	536	315	294	448
Antimony	6	4.1							
Arsenic	50	5	127	90					
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	5		19.7 J		47.2 J	38 J	
Cadmium	5	5.6							
Calcium	*	36830	9780	5950			105000	80800	12900 J
Chromium	100	7.8			1.3 J				
Cobalt	420	*			0.88 J		1.7 J	2.1 J	
Copper	1000	5.4					4.5 J	5.6 J	
Iron	300	1227	317	396	2400	741 J	430	451	
Lead	15	4							1.6
Magnesium	*	4560	1520	970		882 J	9780	7410	1230 J
Manganese	50	17	15.1		82.9	29.4 J	159	145	27.6 J
Mercury	2	0.12							
Nickel	100	*			3.5 J		9.9 J	9.4 J	
Potassium	*	5400	11000	7260					
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	940			7400			5050
Vanadium	49	20.6			1.3 J		1.6 J	1.6 J	
Zinc	5000	4	49.6						
General Chemistry (mg/L)			NA	NA		NA		NA	NA
Total Organic Carbon					10.1		21.2		
Total Suspended Solids							7		

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-14				
Sample ID			NTC09G01411	NTC09G1412	NTC09G01413	NTC09G01413-D	NTC09G01414
Lab ID	Florida	NTC	A9H030173001	A9J230148004	A0A250149006	A0A250149009	A0D150148018
Sample Date	GCTL[b]	BGSV[c]	8/1/99	10/22/99	1/23/00	1/23/00	4/14/00
Semivolatiles/PAHs (µg/L)							
1-Methylnaphthalene	20			NA		0.44 J	0.58 J
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						0.69 J
2-Methylphenol	35						
4-Methylphenol	4						
Acenaphthene	20						
Bis(2-ethylhexyl)phthalate	6						
Naphthalene	20		2.1	4.8 J	9.9	7.7	21
Pentachlorophenol	1						
Phenol	10						
Pesticides/PCBs (µg/L)			(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)							
2,4,5-TP (Silvex)	50						
2,4-D	70						
2,4-DB	56						
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5						
MCPP	7						
Pentachlorophenol	1						
Inorganics (µg/L)							
Aluminum	200	4067		509	312	615	
Antimony	6	4.1					
Arsenic	50	5					
Arsenic (III)							
Arsenic (v)							
Barium	2000	31.4	18.1	25.2	47.8	54.6	
Cadmium	5	5.6					
Calcium	*	36830	45800	37600	59600	67100	15900
Chromium	100	7.8		4.6		3.2	
Cobalt	420	*					
Copper	1000	5.4					
Iron	300	1227		786	828	941	392
Lead	15	4					
Magnesium	*	4560	4620	4000	6250	6850	1530
Manganese	50	17		120	96.7	109	36.5
Mercury	2	0.12					
Nickel	100	*	5		2.5	4.1	
Potassium	*	5400	574 J	2340	1480	1620	366
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222	32200	16600	32200	35100	4420
Vanadium	49	20.6		3.1	2.8	3.3	2.7
Zinc	5000	4					
General Chemistry (mg/L)			NA	NA	NA	NA	NA
Total Organic Carbon							
Total Suspended Solids							

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-15						
Sample ID			09F01501	09G01501	NTC09G01510	NTC09G01511	NTC09G1512	NTC09G01513	NTC09G01514
Lab ID	Florida	NTC	876945	876940	F3846-5	A9H030173003	A9J230148002	A0A250149007	A0D150148019
Sample Date	GCTL[b]	BGSV[c]	12/5/97	12/5/97	3/13/99	8/2/99	10/22/99	1/23/00	4/14/00
Semivolatiles/PAHs (µg/L)			NA						
1-Methylnaphthalene	20				NA		NA		
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20			5 J	11.2	6.7 J	8 J	5	6.6
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			NA		(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								0.02 J
Endosulfan II[d]	42			0.0075 J					
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA						
2,4,5-TP (Silvex)	50								
2,4-D	70			0.068 J					
2,4-DB	56			0.18 J					
Dalapon	200								
Dicamba	210								
Dichloroprop	35			0.42 J					
Dinoseb	7								
MCPA	3.5								
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	872	3260	470		421	1470	
Antimony	6	4.1							
Arsenic	50	5							
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	13.3 J	18.3 J			5.3	9.6	
Cadmium	5	5.6							
Calcium	*	36830	8060	9800					
Chromium	100	7.8							
Cobalt	420	*	0.63 J	0.8 J					
Copper	1000	5.4	4.4 J	7.2 J					
Iron	300	1227	284	374			312	1300	515
Lead	15	4		2.8 J					
Magnesium	*	4560			807		602	709	501
Manganese	50	17	46.4	55.7	9.7			34	
Mercury	2	0.12							
Nickel	100	*	5.6 J	7.5 J					
Potassium	*	5400						151	
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222	7890		6970	5320	5650	10900	4380
Vanadium	49	20.6	0.93 J	1.9 J			0.53		
Zinc	5000	4							
General Chemistry (mg/L)			NA		NA	NA	NA	NA	NA
Total Organic Carbon				25.3					
Total Suspended Solids				58					

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-16						
Sample ID			09F01601	09G01601	NTC09G01610	NTC09G01611	NTC09G1612	NTC09G01613	NTC09G01614
Lab ID	Florida	NTC	876946	876941	F3846-6	A9H040126006	A9J220158009	A0A250149008	A0D150148015
Sample Date	GCTL[b]	BGSV[c]	12/5/97	12/5/97	3/13/99	8/3/99	10/21/99	1/23/00	4/13/00
Semivolatiles/PAHs (µg/L)			NA			NA	NA	NA	NA
1-Methylnaphthalene	20			NA	NA				
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Acenaphthene	20								
Bis(2-ethylhexyl)phthalate	6								
Naphthalene	20								
Pentachlorophenol	1								
Phenol	10								
Pesticides/PCBs (µg/L)			NA		(e)	(e)	(e)	(e)	(e)
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA						
2,4,5-TP (Silvex)	50								
2,4-D	70								
2,4-DB	56			0.31 J					
Dalapon	200								
Dicamba	210								
Dichloroprop	35			0.36 J					
Dinoseb	7			0.12 J					
MCPA	3.5			**920 J**			**33 J**		
MCPP	7			0.36 J					
Pentachlorophenol	1					NA			
Inorganics (µg/L)									
Aluminum	200	4067	405	1840	443	1670 J	309	264	
Antimony	6	4.1							
Arsenic	50	5	2.4 J	2.2 J					
Arsenic (III)									
Arsenic (v)									
Barium	2000	31.4	10.5 J	17.8 J		22.3	12.6	15.5	13.2
Cadmium	5	5.6							
Calcium	*	36830	13100	15000	5740	8250	4500	4660	
Chromium	100	7.8							
Cobalt	420	*	0.75 J	0.55 J					
Copper	1000	5.4	4 J	5.1 J		2.6			
Iron	300	1227		249	**1320**	637	572	1080	580
Lead	15	4							
Magnesium	*	4560			750	1220	990	1070	830
Manganese	50	17	44.5	**70.8**	**69.0**	41.5	30	38.3	17
Mercury	2	0.12							
Nickel	100	*	3 J	5.1 J		2.8			
Potassium	*	5400			584	586 J	693	679	461
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222			9040	12000	8620	9040	7780
Vanadium	49	20.6	3.1 J	5.1 J			3.2	2.5	2.5
Zinc	5000	4				41.5			
General Chemistry (mg/L)			NA		NA	NA	NA	NA	NA
Total Organic Carbon				22					
Total Suspended Solids				4					

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-17					OLD-09-18		
Sample ID			09G01701	NTC09G01711	NTC09G1712	NTC09G01713	NTC09G01714	09G01801	09G01801D	NTC09G01810
Lab ID	Florida	NTC	882644	A9H040126002	A9J260203002	A0A250149002	A0D150148016	882638	882641	F3854-2
Sample Date	GCTL[b]	BGSV[c]	2/12/98	8/3/99	10/23/99	1/22/00	4/14/00	2/12/98	2/12/98	3/16/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20									
2,4,5-Trichlorophenol										
2,4,6-Trichlorophenol	3.2									
2,4-Dichlorophenol	0.5									
2,4-Dimethylphenol	140									
2-Methylnaphthalene	20									
2-Methylphenol	35									
4-Methylphenol	4									
Acenaphthene	20									
Bis(2-ethylhexyl)phthalate	6									
Naphthalene	20									
Pentachlorophenol	1									
Phenol	10									
Pesticides/PCBs (µg/L)			NA	(e)	(e)	(e)	(e)	NA	NA	(e)
4,4'-DDD	0.1									
4,4'-DDE	0.1									
4,4'-DDT	0.1									
Aldrin	0.005									
alpha-BHC	0.2									
alpha-Chlordane[d]	2									
delta-BHC	2.1									
Dieldrin	0.005									
Endosulfan	42									
Endosulfan II[d]	42									
Endosulfan Sulfate	*									
Endrin	2									
Endrin Aldehyde	*									
gamma-BHC (Lindane)	0.2									
gamma-Chlordane[d]	2									
Toxaphene	3									
Herbicides (µg/L)										
2,4 5-TP (Silvex)	50									
2,4-D	70		0.32 J							
2,4-DB	56		0.55 J							
Dalapon	200		0.69 J					0.3 J		
Dicamba	210									
Dichloroprop	35		0.29 J					0.24 J	0.12 J	
Dinoseb	7									
MCPA	3.5		680 J					630 J	460 J	
MCPP	7				74 J					
Pentachlorophenol	1									
Inorganics (µg/L)										
Aluminum	200	4067	349			260		567	667	2180
Antimony	6	4.1				2				
Arsenic	50	5	4.3 J	8.3	5.4	14.3	16.9			
Arsenic (III)										
Arsenic (v)										
Barium	2000	31.4			19.4	5.3		20.8 J	23.4 J	
Cadmium	5	5.6								
Calcium	*	36830		42500	74000	28500	39800			
Chromium	100	7.8						1.5 J	1.9 J	
Cobalt	420	*								
Copper	1000	5.4		1.3	1.8					
Iron	300	1227	53.6 J			92.6	114	4680	5490	753 J
Lead	15	4								
Magnesium	*	4560			821	569	770			997 J
Manganese	50	17								
Mercury	2	0.12								
Nickel	100	*	1.4 J	1.7						
Potassium	*	5400		2950 J	554	906	1020			
Selenium	50	9.7								
Silver	100	*								
Sodium	160000	18222		1300		1050	691			7670
Vanadium	49	20.6	4.3 J	8.9	4.8	5.9		1.6 J	1.6 J	
Zinc	5000	4								
General Chemistry (mg/L)			NA	NA	NA	NA	NA			NA
Total Organic Carbon								7.05	5.94	
Total Suspended Solids										

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-19			
Sample ID			NTC09G01911	NTC09G1912	NTC09G01913	NTC09G01914
Lab ID	Florida	NTC	A9H050202004	A9J300126002	A0A250128006	A0D150148017
Sample Date	GCTL[b]	BGSV[c]	8/4/99	10/27/99	1/22/00	4/13/00
Semivolatiles/PAHs (µg/L)					NA	NA
1-Methylnaphthalene	20			NA		
2,4,5-Trichlorophenol						
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Acenaphthene	20					
Bis(2-ethylhexyl)phthalate	6					
Naphthalene	20					
Pentachlorophenol	1					
Phenol	10					
Pesticides/PCBs (µg/L)			(e)	NA	(e)	(e)
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1					
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[d]	42					
Endosulfan Sulfate	*					
Endrin	2					
Endrin Aldehyde	*					
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)						
2,4,5-TP (Silvex)	50					
2,4-D	70					
2,4-DB	56					
Dalapon	200					
Dicamba	210					
Dichloroprop	35					
Dinoseb	7					
MCPA	3.5					
MCPP	7					
Pentachlorophenol	1					
Inorganics (µg/L)						
Aluminum	200	4067	**7740 J**	402	693	
Antimony	6	4.1	**17.7**			
Arsenic	50	5				
Arsenic (III)						
Arsenic (v)						
Barium	2000	31.4	51.5	18.1 J	20.8	
Cadmium	5	5.6				
Calcium	*	36830	51600	29300	23300	
Chromium	100	7.8	3.4	1.4		
Cobalt	420	*				
Copper	1000	5.4	6.6			
Iron	300	1227	**1290**	645	762	689
Lead	15	4				
Magnesium	*	4560	1660	3210	2400	1070
Manganese	50	17		37.9	31.5	
Mercury	2	0.12				
Nickel	100	*		1.7		
Potassium	*	5400		1600	1700	642
Selenium	50	9.7				
Silver	100	*				
Sodium	160000	18222	8260	7080	7740	6660
Vanadium	49	20.6		5.1	7.3	5.1
Zinc	5000	4				
General Chemistry (mg/L)			NA	NA	NA	NA
Total Organic Carbon						
Total Suspended Solids						

TABLE 5

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 – STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

* Indicates that the screening value is not available.
"D" qualifier indicates the reported value is from a dilution.
"J" qualifier indicates an estimated value.
Empty cells indicate non-detects.
NA Not analyzed.
Only chemicals detected in at least one sample are shown.
Values in shaded cells are equal to or exceed the screening criteria.

(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.
(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) Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.
(e) PCBs not analyzed for.

TABLE 6

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-01	OLD-08-02	OLD-08-03	OLD-08-04	OLD-08-05
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G00114	NTC08G00214	NTC08G00314	NTC08G00414	NTC08G00514
LAB ID				A0D180174001	A0D180174010	A0D180174005	A0D180174004	A0D180174009
SAMPLE DATE				4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Herbicides (µg/L)								
2,4,5-T	93-76-5	70		NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	93-72-1	50		NA	NA	NA	NA	NA
2,4-D	94-75-7	70		NA	NA	NA	NA	NA
2,4-DB	94-82-6	56		NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	56		NA	NA	NA	NA	NA
Dalapon	75-99-0	200		NA	NA	NA	NA	NA
Dicamba	1918-00-9	210		NA	NA	NA	NA	NA
Dichlorprop	120-36-5	35		NA	NA	NA	NA	NA
Dinoseb	88-85-7	7		NA	NA	NA	NA	NA
MCPA	94-74-6	3.5		NA	NA	NA	NA	NA
MCPP	7085-19-0	7		NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	148 U	292	118 U	230	74.1 U
Antimony	7440-36-0	6	4.1	3.5	5.2	2.7	1.6 U	1.6 U
Arsenic	7440-38-2	50	5	**105**	**378**	**159**	**132**	25.7
Barium	7440-39-3	2000	31.4	2.2 U	23	15.4	2.7 U	3.2 U
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	30900	58800	36100	24900	15000
Chromium	7440-47-3	100	7.8	2.9	2.6 U	4.1	2.9	2.6 U
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	4.2	2.9 U	3.1	11	9.5
Iron	7439-89-6	300	1227	69.9	291	**1270**	43.7 U	73.3
Lead	7439-92-1	15	4	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Magnesium	7439-95-4	*	4560	2400	3830	3170	2940	1510
Manganese	7439-96-5	50	17	1.5 U	26.6	29.3	18.8	19
Mercury	7439-97-6	2	0.12	0.04	0.04 U	0.04 U	0.04 U	0.04 U
Nickel	7440-02-0	100	*	1.7 U	1.8	24.2	7.4	1.7 U
Potassium	7440-09-7	*	5400	4980	3080	5320	5350	2410
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	1540	1390	1630	1550	1570
Thallium	7440-28-0	2	3.8	0.37 U	0.37 U	0.37 UJ	0.37 U	0.37 U
Vanadium	7440-62-2	49	20.6	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Zinc	7440-66-6	5000	4	24.8 U	19.7 U	394	156	29.7 U

TABLE 6

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-06	OLD-08-08	OLD-08-10	OLD-08-11	
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G00614	NTC08G00814	NTC08G01014	NTC08G01114	NTC08G01114-D
LAB ID				A0D180174008	A0D180174003	A0D180174006	A0D180174013	A0D180174015
SAMPLE DATE				4/15/00	4/15/00	4/15/00	4/16/00	4/16/00
Herbicides (µg/L)								
2,4,5-T	93-76-5	70		NA	2 U	2 U	2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		NA	2 U	2 U	2 U	2 U
2,4-D	94-75-7	70		NA	8 U	8 U	8 U	8 U
2,4-DB	94-82-6	56		NA	8 U	8 U	8 U	8 U
4-Nitrophenol	100-02-7	56		NA	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		NA	2 UR	20 UR	20 UR	20 UR
Dicamba	1918-00-9	210		NA	4 U	4 U	4 U	4 U
Dichlorprop	120-36-5	35		NA	8 U	8 U	8 U	8 U
Dinoseb	88-85-7	7		NA	1.2 U	1.2 U	1.2 U	1.2 U
MCPA	94-74-6	3.5		NA	80 U	80 U	80 U	80 U
MCPP	7085-19-0	7		NA	80 U	80 U	80 U	80 U
Pentachlorophenol	87-86-5	1		NA	0.2 U	0.2 U	0.2 U	0.2 U
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	43 U	24.9 U	379	194	195
Antimony	7440-36-0	6	4.1	2.5	4.9	2.6	3.2	1.6 U
Arsenic	7440-38-2	50	5	42.3	**200**	**122**	**959**	**991**
Barium	7440-39-3	2000	31.4	1.7 U	6.7	13.6	1.6 U	1.5 U
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	20300	79300	24600	41000	42200
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U	2.6 U	3.5	5.3
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	2.9 U	2.9 U	2.9 U	9.2	6.6
Iron	7439-89-6	300	1227	152	43.7 U	809	44.5	51.6
Lead	7439-92-1	15	4	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Magnesium	7439-95-4	*	4560	1690	3400	2060	3890	4040
Manganese	7439-96-5	50	17	5.9	1.8 U	**65.9**	5.4	5.7
Mercury	7439-97-6	2	0.12	0.04 U	0.04 U	0.04 U	0.05	0.04 U
Nickel	7440-02-0	100	*	1.7 U	1.7 U	1.7 U	1.7 U	2.9
Potassium	7440-09-7	*	5400	2150	6550	532	12100	12600
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	1420	1810	5650	3940	4130
Thallium	7440-28-0	2	3.8	0.37 U	0.37 UJ	0.37 U	0.37 UJ	0.37 UJ
Vanadium	7440-62-2	49	20.6	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Zinc	7440-66-6	5000	4	2 U	13 U	28.4 U	26.3 U	10.8 U

TABLE 6

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-13	OLD-08-15	OLD-08-17	OLD-08-18	OLD-08-19
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G01314	NTC08G01514	NTC08G01714	NTC08G01814	NTC08G01914
LAB ID				A0D180174007	A0D180174011	A0D180174002	A0D180174016	A0D180174012
SAMPLE DATE				4/15/00	4/15/00	4/15/00	4/16/00	4/15/00
Herbicides (µg/L)								
2,4,5-T	93-76-5	70		NA	2 U	NA	2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		NA	2 U	NA	2 U	2 U
2,4-D	94-75-7	70		NA	8 U	NA	8 U	8 U
2,4-DB	94-82-6	56		NA	8 U	NA	8 U	8 U
4-Nitrophenol	100-02-7	56		NA	4 U	NA	4 U	4 U
Dalapon	75-99-0	200		NA	20 UR	NA	20 UR	20 UR
Dicamba	1918-00-9	210		NA	4 U	NA	4 U	4 U
Dichlorprop	120-36-5	35		NA	8 U	NA	8 U	8 U
Dinoseb	88-85-7	7		NA	1.2 U	NA	1.2 U	1.2 U
MCPA	94-74-6	3.5		NA	80 U	NA	80 U	80 U
MCPP	7085-19-0	7		NA	80 U	NA	80 U	80 U
Pentachlorophenol	87-86-5	1		NA	0.2 U	NA	0.2 U	0.2 U
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	1450	732	25.3 U	700	2790
Antimony	7440-36-0	6	4.1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Arsenic	7440-38-2	50	5	20.5	4.1	**150**	2.5 U	2.9
Barium	7440-39-3	2000	31.4	20.8	22	2.9 U	29.3	18.5
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.2 U	0.25 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	11000	7050	58400	4910	12200
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U	2.6 U	2.6 U	3.2
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	7.3	2.9 U	2.9 U	2.9 U	5.1
Iron	7439-89-6	300	1227	**1800**	**2000**	43.7 U	**2850**	135
Lead	7439-92-1	15	4	2.6	1.4 U	1.4 U	1.4 U	4.7
Magnesium	7439-95-4	*	4560	2380	3930	2940	2400	2130
Manganese	7439-96-5	50	17	**64**	38.7	2.6 U	**141**	2.4 U
Mercury	7439-97-6	2	0.12	0.04	0.05	0.04 U	0.04 U	0.04 U
Nickel	7440-02-0	100	*	3.7	2.1	1.7 U	2.5	1.7 U
Potassium	7440-09-7	*	5400	875	385	6440	1090	1610
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	10300	17400	1850	8590	9860
Thallium	7440-28-0	2	3.8	0.37 UJ	0.37 U	0.37 UJ	0.37 U	0.37 U
Vanadium	7440-62-2	49	20.6	2.1	2.1 U	2.1 U	5.5	2.1 U
Zinc	7440-66-6	5000	4	28.4 U	4.8 U	8.2 U	4.2 U	22.1 U

TABLE 6

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria [a]		OLD-08-20	OLD-08-21
SAMPLE ID		Florida GCTL [b]	NTC BGSV [c]	NTC08G02014	NTC08G02114
LAB ID				A0D180174014	A0D180174017
SAMPLE DATE				4/16/00	4/16/00
Herbicides (µg/L)					
2,4,5-T	93-76-5	70		2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		2 U	2 U
2,4-D	94-75-7	70		8 U	8 U
2,4-DB	94-82-6	56		8 U	8 U
4-Nitrophenol	100-02-7	56		4 U	4 U
Dalapon	75-99-0	200		20 UR	20 UR
Dicamba	1918-00-9	210		4 U	4 U
Dichlorprop	120-36-5	35		8 U	8 U
Dinoseb	88-85-7	7		1.2 U	1.2 U
MCPA	94-74-6	3.5		80 U	80 U
MCPP	7085-19-0	7		80 U	80 U
Pentachlorophenol	87-86-5	1		0.07 J	0.2 U
Inorganics (µg/L)					
Aluminum	7429-90-5	200	4067	524	661
Antimony	7440-36-0	6	4.1	1.6 U	1.6 U
Arsenic	7440-38-2	50	5	2.5 U	2.6
Barium	7440-39-3	2000	31.4	7.2	5.5
Beryllium	7440-41-7	4	*	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	19000	3640
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U
Cobalt	7440-48-4	420	*	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	2.9 U	2.9 U
Iron	7439-89-6	300	1227	43.7 U	105
Lead	7439-92-1	15	4	1.4 U	1.4 U
Magnesium	7439-95-4	*	4560	3740	2980
Manganese	7439-96-5	50	17	1.5 U	1.9 U
Mercury	7439-97-6	2	0.12	0.04 U	0.06
Nickel	7440-02-0	100	*	1.7 U	1.7 U
Potassium	7440-09-7	*	5400	1760	987
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	6820	7290
Thallium	7440-28-0	2	3.8	0.37 U	0.37 U
Vanadium	7440-62-2	49	20.6	2.1 U	2.8
Zinc	7440-66-6	5000	4	2.3 U	8.3 U

Notes:

* indicates that the criteria or screening value not available.
"J" qualifier indicates an estimated value.
"U" qualifier indicates a non-detect.
"R" qualifier indicates rejected value.
NA Not analyzed.
Values in shaded cells are equal to or exceed the screening criteria.

[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.
[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] Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-01		OLD-09-02	OLD-09-03		OLD-09-04
SAMPLE ID				NTC09G00114	NTC09G00114-D	NTC09G00214	NTC09G00314	NTC09G00314-D	NTC09G00414
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148003	A0D150148004	A0D150148005	A0D150148006	A0D150148007	A0D150148008
SAMPLE DATE				4/13/00	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00
Semivolatiles (µg/L)									
1,2,4-Trichlorobenzene	120-82-1	70		NA	NA	NA	10 U	10 U	10 U
1,2-Dichlorobenzene	95-50-1	600		NA	NA	NA	10 U	10 U	10 U
1,3-Dichlorobenzene	541-73-1	10		NA	NA	NA	10 U	10 U	10 U
1,4-Dichlorobenzene	106-46-7	75		NA	NA	NA	10 U	10 U	10 U
2,4,5-Trichlorophenol	95-95-4	4		NA	NA	NA	10 U	10 U	10 U
2,4,6-Trichlorophenol	88-06-2	3.2		NA	NA	NA	10 U	10 U	10 U
2,4-Dichlorophenol	120-83-2	0.5		NA	NA	NA	10 U	10 U	10 U
2,4-Dimethylphenol	105-67-9	140		NA	NA	NA	10 U	10 U	10 U
2,4-Dinitrophenol	51-28-5	14		NA	NA	NA	25 U	25 U	25 U
2,4-Dinitrotoluene	121-14-2	0.1		NA	NA	NA	10 U	10 U	10 U
2,6-Dinitrotoluene	606-20-2	0.1		NA	NA	NA	10 U	10 U	10 U
2-Chloronaphthalene	91-58-7	560		NA	NA	NA	10 U	10 U	10 U
2-Chlorophenol	95-57-8	35		NA	NA	NA	10 U	10 U	10 U
2-Methylphenol	95-48-7	35		NA	NA	NA	10 U	10 U	10 U
2-Nitroaniline	88-74-4	50		NA	NA	NA	25 U	25 U	25 U
2-Nitrophenol	88-75-5	*		NA	NA	NA	10 U	10 U	10 U
3,3'-Dichlorobenzidine	91-94-1	12		NA	NA	NA	10 U	10 U	10 U
3-Nitroaniline	99-09-2	50		NA	NA	NA	25 U	25 U	25 U
4,6-Dinitro-2-Methylphenol	534-52-1	*		NA	NA	NA	25 U	25 U	25 U
4-Bromophenyl Phenyl Ether	101-55-3	406		NA	NA	NA	10 U	10 U	10 U
4-Chloro-3-Methylphenol	59-50-7	63		NA	NA	NA	10 U	10 U	10 U
4-Chloroaniline	106-47-8	28		NA	NA	NA	10 UR	10 UR	10 UR
4-Chlorophenyl Phenyl Ether	7005-72-3	*		NA	NA	NA	10 U	10 U	10 U
4-Methylphenol	106-44-5	4		NA	NA	NA	10 U	10 U	10 U
4-Nitroaniline	100-01-6	21		NA	NA	NA	25 U	25 U	25 U
4-Nitrophenol	100-02-7	56		NA	NA	NA	25 U	25 U	25 U
Bis(2-Chloroethoxy)Methane	111-91-1	*		NA	NA	NA	10 U	10 U	10 U
Bis(2-Chloroethyl)Ether	111-44-4	4		NA	NA	NA	10 U	10 U	10 U
Bis(2-Chloroisopropyl)Ether	108-60-1	10		NA	NA	NA	10 U	10 U	10 U
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		NA	NA	NA	10 U	10 U	10 U
Butylbenzyl Phthalate	85-68-7	140		NA	NA	NA	10 U	10 U	10 U
Carbazole	86-74-8	4		NA	NA	NA	10 U	10 U	10 U
Di-N-Butyl Phthalate	84-74-2	700		NA	NA	NA	10 U	10 U	10 U
Di-N-Octyl Phthalate	117-84-0	140		NA	NA	NA	10 U	10 U	10 U
Dibenzofuran	132-64-9	28		NA	NA	NA	10 U	10 U	10 U
Diethyl Phthalate	84-66-2	5600		NA	NA	NA	10 U	10 U	10 U
Dimethyl Phthalate	131-11-3	70000		NA	NA	NA	10 U	10 U	10 U
Hexachlorobenzene	118-74-1	1		NA	NA	NA	10 U	10 U	10 U
Hexachlorobutadiene	87-68-3	0.5		NA	NA	NA	10 U	10 U	10 U
Hexachlorocyclopentadiene	77-47-4	50		NA	NA	NA	10 U	10 U	10 U
Hexachloroethane	67-72-1	2.5		NA	NA	NA	10 U	10 U	10 U
Isophorone	78-59-1	37		NA	NA	NA	10 U	10 U	10 U
N-Nitroso-Di-N-Propylamine	621-64-7	4		NA	NA	NA	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	7.1		NA	NA	NA	10 U	10 U	10 U
Nitrobenzene	98-95-3	4		NA	NA	NA	10 U	10 U	10 U
Pentachlorophenol	87-86-5	1		NA	NA	NA	25 U	25 U	25 U
Phenol	108-95-2	10		NA	NA	NA	10 U	10 U	10 U
PAHs (µg/L)									
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	2 U	2 U	3.5
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	2 U	2 U	3.6
Acenaphthene	83-32-9	20		NA	NA	NA	1 U	1 U	1 U
Acenaphthylene	208-96-8	210		NA	NA	NA	1 U	1 U	1 U
Anthracene	120-12-7	2100		NA	NA	NA	1 U	1 U	1 U
Benzo(a)anthracene	56-55-3	0.2		NA	NA	NA	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	50-32-8	0.2		NA	NA	NA	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	205-99-2	0.2		NA	NA	NA	0.1 U	0.1 U	0.1 U
Benzo(g,h,i)perylene	191-24-2	210		NA	NA	NA	0.1 U	0.1 U	0.1 U
Benzo(k)fluoranthene	207-08-9	0.5		NA	NA	NA	0.3 U	0.3 U	0.3 U
Chrysene	218-01-9	4.8		NA	NA	NA	0.1 U	0.1 U	0.1 U
Dibenzo(a,h)anthracene	53-70-3	0.2		NA	NA	NA	0.1 U	0.1 U	0.1 U
Fluoranthene	206-44-0	280		NA	NA	NA	0.2 U	0.2 U	0.2 U

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-01		OLD-09-02	OLD-09-03		OLD-09-04
SAMPLE ID				NTC09G00114	NTC09G00114-D	NTC09G00214	NTC09G00314	NTC09G00314-D	NTC09G00414
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148003	A0D150148004	A0D150148005	A0D150148006	A0D150148007	A0D150148008
SAMPLE DATE				4/13/00	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00
PAHs (µg/L) (Continued)									
Fluorene	86-73-7	280		NA	NA	NA	2 U	2 U	2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.2		NA	NA	NA	0.1 U	0.1 U	0.1 U
Naphthalene	91-20-3	20		NA	NA	NA	2 U	2 U	4.2
Phenanthrene	85-01-8	210		NA	NA	NA	1 U	1 U	1 U
Pyrene	129-00-0	210		NA	NA	NA	0.1 U	0.1 U	0.1 U
Pesticides (µg/L)									
4,4'-DDD	72-54-8	0.1		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.27 R
4,4'-DDE	72-55-9	0.1		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	**0.76 J**
4,4'-DDT	50-29-3	0.1		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Aldrin	309-00-2	0.005		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	**0.48 J**
alpha-BHC	319-84-6	0.2		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
alpha-Chlordane[d]	5103-71-9	2		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.56
beta-BHC	319-85-7	0.02		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
delta-BHC	319-86-8	2.1		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Dieldrin	60-57-1	0.005		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Endosulfan I	959-98-8	42		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.29 R
Endosulfan II[d]	33213-65-9	42		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Endosulfan Sulfate	1031-07-8	*		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Endrin	72-20-8	2		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.16
Endrin Aldehyde	7421-93-4	*		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.24 J
Endrin Ketone	53494-70-5	*		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
gamma-BHC (Lindane)	58-89-9	0.2		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
gamma-Chlordane[d]	5103-74-2	2		0.04 J	0.044 J	0.05 UJ	0.05 UJ	0.05 UJ	0.7 J
Heptachlor	76-44-8	0.4		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.2		0.05 UJ	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U
Methoxychlor	72-43-5	40		0.1 UJ	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Toxaphene	8001-35-2	3		2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 U
Herbicides (µg/L)									
2,4,5-T	93-76-5	70		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		2 U	2 U	2 U	2 U	2 U	2 U
2,4-D	94-75-7	70		8 U	8 U	8 U	8 U	8 U	8 U
2,4-DB	94-82-6	56		8 U	8 U	8 U	8 U	8 U	8 U
4-Nitrophenol	100-02-7	56		4 U	4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		4 UR	4 UR	4 UR	4 UR	4 UR	4 UR
Dicamba	1918-00-9	210		4 U	4 U	4 U	4 U	4 U	0.27 J
Dichlorprop	120-36-5	35		8 U	8 U	8 U	8 U	8 U	8 U
Dinoseb	88-85-7	7		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
MCPA	94-74-6	3.5		80 U	80 U	80 U	80 U	80 U	80 U
MCPP	7085-19-0	7		80 U	80 U	80 U	80 U	80 U	80 U
Pentachlorophenol	87-86-5	1		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	66.7 U	62.8 U	1490	634 U	632 U	297 U
Antimony	7440-36-0	6	4.1	5.7 U	6.2 U	4.8 U	5.3 U	5.3 U	5 U
Arsenic	7440-38-2	50	5	18.2	18.1	2.5 U	2.5 U	2.5 U	**266**
Barium	7440-39-3	2000	31.4	46.9	46.4	1.8 U	2.3 U	2.5 U	10.4 U
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	122000	121000	7780	10400	10300	37400
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	5.2
Iron	7439-89-6	300	1227	304	307	151	151	157	**1900**
Lead	7439-92-1	15	4	1.4 U	1.4 U	2.3 U	1.4 U	1.8 U	2.6 U
Magnesium	7439-95-4	*	4560	7220	7170	1960	2130	2140	3260
Manganese	7439-96-5	50	17	25.1	24.9	4 U	3.1 U	1.2 U	47.6
Mercury	7439-97-6	2	0.12	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Nickel	7440-02-0	100	*	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Potassium	7440-09-7	*	5400	6170	6160	3050	3290	3260	7190
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	1500	1550	1720	1670	1670	686 U
Thallium	7440-28-0	2	3.8	1.2 U	1.1 U	0.9 U	0.8 U	1.2 U	1.1 U
Vanadium	7440-62-2	49	20.6	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Zinc	7440-66-6	5000	4	10.6 U	11.4 U	9.1 U	8.9 U	11.3 U	19.6 U

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-05	OLD-09-06	OLD-09-07	OLD-09-10	OLD-09-11	OLD-09-12
SAMPLE ID				NTC09G00514	NTC09G00614	NTC09G00714	NTC09G01014	NTC09G01114	NTC09G01214
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148009	A0D150148010	A0D150148011	A0D150148012	A0D150148013	A0D150148014
SAMPLE DATE				4/14/00	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00
Semivolatiles (µg/L)									
1,2,4-Trichlorobenzene	120-82-1	70		NA	NA	NA	NA	NA	10 U
1,2-Dichlorobenzene	95-50-1	600		NA	NA	NA	NA	NA	10 U
1,3-Dichlorobenzene	541-73-1	10		NA	NA	NA	NA	NA	10 U
1,4-Dichlorobenzene	106-46-7	75		NA	NA	NA	NA	NA	10 U
2,4,5-Trichlorophenol	95-95-4	4		NA	NA	NA	NA	NA	1.4 J
2,4,6-Trichlorophenol	88-06-2	3.2		NA	NA	NA	NA	NA	1.2 J
2,4-Dichlorophenol	120-83-2	0.5		NA	NA	NA	NA	NA	**2.3 J**
2,4-Dimethylphenol	105-67-9	140		NA	NA	NA	NA	NA	10 U
2,4-Dinitrophenol	51-28-5	14		NA	NA	NA	NA	NA	25 U
2,4-Dinitrotoluene	121-14-2	0.1		NA	NA	NA	NA	NA	10 U
2,6-Dinitrotoluene	606-20-2	0.1		NA	NA	NA	NA	NA	10 U
2-Chloronaphthalene	91-58-7	560		NA	NA	NA	NA	NA	10 U
2-Chlorophenol	95-57-8	35		NA	NA	NA	NA	NA	10 U
2-Methylphenol	95-48-7	35		NA	NA	NA	NA	NA	10 U
2-Nitroaniline	88-74-4	50		NA	NA	NA	NA	NA	25 U
2-Nitrophenol	88-75-5	*		NA	NA	NA	NA	NA	10 U
3,3'-Dichlorobenzidine	91-94-1	12		NA	NA	NA	NA	NA	10 U
3-Nitroaniline	99-09-2	50		NA	NA	NA	NA	NA	25 U
4,6-Dinitro-2-Methylphenol	534-52-1	*		NA	NA	NA	NA	NA	25 U
4-Bromophenyl Phenyl Ether	101-55-3	406		NA	NA	NA	NA	NA	10 U
4-Chloro-3-Methylphenol	59-50-7	63		NA	NA	NA	NA	NA	10 U
4-Chloroaniline	106-47-8	28		NA	NA	NA	NA	NA	10 UR
4-Chlorophenyl Phenyl Ether	7005-72-3	*		NA	NA	NA	NA	NA	10 U
4-Methylphenol	106-44-5	4		NA	NA	NA	NA	NA	10 U
4-Nitroaniline	100-01-6	21		NA	NA	NA	NA	NA	25 U
4-Nitrophenol	100-02-7	56		NA	NA	NA	NA	NA	25 U
Bis(2-Chloroethoxy)Methane	111-91-1	*		NA	NA	NA	NA	NA	10 U
Bis(2-Chloroethyl)Ether	111-44-4	4		NA	NA	NA	NA	NA	10 U
Bis(2-Chloroisopropyl)Ether	108-60-1	10		NA	NA	NA	NA	NA	10 U
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		NA	NA	NA	NA	NA	10 U
Butylbenzyl Phthalate	85-68-7	140		NA	NA	NA	NA	NA	10 U
Carbazole	86-74-8	4		NA	NA	NA	NA	NA	10 U
Di-N-Butyl Phthalate	84-74-2	700		NA	NA	NA	NA	NA	10 U
Di-N-Octyl Phthalate	117-84-0	140		NA	NA	NA	NA	NA	10 U
Dibenzofuran	132-64-9	28		NA	NA	NA	NA	NA	10 U
Diethyl Phthalate	84-66-2	5600		NA	NA	NA	NA	NA	10 U
Dimethyl Phthalate	131-11-3	70000		NA	NA	NA	NA	NA	10 U
Hexachlorobenzene	118-74-1	1		NA	NA	NA	NA	NA	10 U
Hexachlorobutadiene	87-68-3	0.5		NA	NA	NA	NA	NA	10 U
Hexachlorocyclopentadiene	77-47-4	50		NA	NA	NA	NA	NA	10 U
Hexachloroethane	67-72-1	2.5		NA	NA	NA	NA	NA	10 U
Isophorone	78-59-1	37		NA	NA	NA	NA	NA	10 U
N-Nitroso-Di-N-Propylamine	621-64-7	4		NA	NA	NA	NA	NA	10 U
N-Nitrosodiphenylamine	86-30-6	7.1		NA	NA	NA	NA	NA	10 U
Nitrobenzene	98-95-3	4		NA	NA	NA	NA	NA	10 U
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	25 U
Phenol	108-95-2	10		NA	NA	NA	NA	NA	10 U
PAHs (µg/L)									
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA	0.46 J
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	0.75 J
Acenaphthene	83-32-9	20		NA	NA	NA	NA	NA	1 U
Acenaphthylene	208-96-8	210		NA	NA	NA	NA	NA	1 U
Anthracene	120-12-7	2100		NA	NA	NA	NA	NA	1 U
Benzo(a)anthracene	56-55-3	0.2		NA	NA	NA	NA	NA	0.1 U
Benzo(a)pyrene	50-32-8	0.2		NA	NA	NA	NA	NA	0.1 U
Benzo(b)fluoranthene	205-99-2	0.2		NA	NA	NA	NA	NA	0.1 U
Benzo(g,h,i)perylene	191-24-2	210		NA	NA	NA	NA	NA	0.1 U
Benzo(k)fluoranthene	207-08-9	0.5		NA	NA	NA	NA	NA	0.3 U
Chrysene	218-01-9	4.8		NA	NA	NA	NA	NA	0.1 U
Dibenzo(a,h)anthracene	53-70-3	0.2		NA	NA	NA	NA	NA	0.1 U
Fluoranthene	206-44-0	280		NA	NA	NA	NA	NA	0.2 U

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-05	OLD-09-06	OLD-09-07	OLD-09-10	OLD-09-11	OLD-09-12
SAMPLE ID				NTC09G00514	NTC09G00614	NTC09G00714	NTC09G01014	NTC09G01114	NTC09G01214
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148009	A0D150148010	A0D150148011	A0D150148012	A0D150148013	A0D150148014
SAMPLE DATE				4/14/00	4/13/00	4/13/00	4/13/00	4/13/00	4/13/00
PAHs (µg/L) (Continued)									
Fluorene	86-73-7	280		NA	NA	NA	NA	NA	2 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.2		NA	NA	NA	NA	NA	0.1 U
Naphthalene	91-20-3	20		NA	NA	NA	NA	NA	2.3
Phenanthrene	85-01-8	210		NA	NA	NA	NA	NA	1 U
Pyrene	129-00-0	210		NA	NA	NA	NA	NA	0.1 U
Pesticides (µg/L)									
4,4'-DDD	72-54-8	0.1		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
4,4'-DDE	72-55-9	0.1		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.063 J	0.47 R
4,4'-DDT	50-29-3	0.1		0.05 U	0.053 J	0.05 UJ	0.05 UJ	0.1 UJ	0.5 UJ
Aldrin	309-00-2	0.005		0.05 U	0.028 R	0.05 UJ	0.05 UJ	0.1 U	0.5 U
alpha-BHC	319-84-6	0.2		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.092 J	**4.2**
alpha-Chlordane[d]	5103-71-9	2		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.098 J	0.5 U
beta-BHC	319-85-7	0.02		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
delta-BHC	319-86-8	2.1		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Dieldrin	60-57-1	0.005		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Endosulfan I	959-98-8	42		0.05 U	0.14 R	0.05 UJ	0.05 UJ	0.14 R	1.2 J
Endosulfan II[d]	33213-65-9	42		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Endosulfan Sulfate	1031-07-8	*		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Endrin	72-20-8	2		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Endrin Aldehyde	7421-93-4	*		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Endrin Ketone	53494-70-5	*		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 UJ	0.5 UJ
gamma-BHC (Lindane)	58-89-9	0.2		0.05 U	0.05 U	0.05 UJ	0.05 UJ	**1.3**	**5.7**
gamma-Chlordane[d]	5103-74-2	2		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.065 J	0.5 U
Heptachlor	76-44-8	0.4		0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.1 UJ	0.5 UJ
Heptachlor Epoxide	1024-57-3	0.2		0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.1 U	0.5 U
Methoxychlor	72-43-5	40		0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.2 UJ	1 UJ
Toxaphene	8001-35-2	3		2 U	2 U	2 UJ	2 UJ	4 U	20 U
Herbicides (µg/L)									
2,4,5-T	93-76-5	70		2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		2 U	0.52 J	2 U	2 U	2 U	0.69 J
2,4-D	94-75-7	70		8 U	8 U	8 U	8 U	0.19 J	6.2 J
2,4-DB	94-82-6	56		8 U	8 U	8 U	8 U	8 U	0.79 R
4-Nitrophenol	100-02-7	56		4 U	4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		4 UR	4 UR	4 UR	4 UR	4 UR	4 UR
Dicamba	1918-00-9	210		4 U	8.7 J	4 U	4 U	4 U	4 U
Dichlorprop	120-36-5	35		8 U	8 U	8 U	8 U	8 U	0.48 R
Dinoseb	88-85-7	7		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.15 R
MCPA	94-74-6	3.5		80 U	80 U	80 U	80 U	80 U	80 U
MCPP	7085-19-0	7		80 U	80 U	80 U	80 U	80 U	80 U
Pentachlorophenol	87-86-5	1		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	74.9 U	1400	945	643 U	1440	1020
Antimony	7440-36-0	6	4.1	6.3 U	1.6 U	5.9 U	5.5 U	6.6 U	5.2 U
Arsenic	7440-38-2	50	5	**104**	**50.5**	2.5 U	2.5 U	34.1	**90**
Barium	7440-39-3	2000	31.4	4.2 U	12.7 U	5.6 U	6.3 U	15.5	4.8 U
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	49000	12000	5890	26600	27700	5950
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U	3.2	2.6 U	2.9	2.6 U
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Iron	7439-89-6	300	1227	301	749	366	723	**1690**	396
Lead	7439-92-1	15	4	1.5 U	1.4 U	1.8 U	1.4 U	11.2	2.3 U
Magnesium	7439-95-4	*	4560	4420	2240	811	2420	1510	970
Manganese	7439-96-5	50	17	9.1 U	15.9	3.9 U	17.2	28.8	6.2 U
Mercury	7439-97-6	2	0.12	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Nickel	7440-02-0	100	*	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Potassium	7440-09-7	*	5400	8170	2660	720	2980	6960	7260
Selenium	7782-49-2	50	9.7	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	1370	4190	1510	1650	1520	686 U
Thallium	7440-28-0	2	3.8	0.9 U	0.8 U	0.9 U	1.2 U	0.37 UJ	0.37 UJ
Vanadium	7440-62-2	49	20.6	2.1 U	2.8	2.1	2.1 U	2.1 U	2.1 U
Zinc	7440-66-6	5000	4	14.3 U	1.4 U	59.5 U	20.8 U	17.7 U	30.3 U

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
SAMPLE ID				NTC09G01414	NTC09G01514	NTC09G01614	NTC09G01714	NTC09G01914
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148018	A0D150148019	A0D150148015	A0D150148016	A0D150148017
SAMPLE DATE				4/14/00	4/14/00	4/13/00	4/14/00	4/13/00
Semivolatiles (µg/L)								
1,2,4-Trichlorobenzene	120-82-1	70		10 U	10 U	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	600		10 U	10 U	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	10		10 U	10 U	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	75		10 U	10 U	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		10 U	10 U	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	3.2		10 U	10 U	NA	NA	NA
2,4-Dichlorophenol	120-83-2	0.5		10 U	10 U	NA	NA	NA
2,4-Dimethylphenol	105-67-9	140		10 U	10 U	NA	NA	NA
2,4-Dinitrophenol	51-28-5	14		25 U	25 U	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	0.1		10 U	10 U	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	0.1		10 U	10 U	NA	NA	NA
2-Chloronaphthalene	91-58-7	560		10 U	10 U	NA	NA	NA
2-Chlorophenol	95-57-8	35		10 U	10 U	NA	NA	NA
2-Methylphenol	95-48-7	35		10 U	10 U	NA	NA	NA
2-Nitroaniline	88-74-4	50		25 U	25 U	NA	NA	NA
2-Nitrophenol	88-75-5	*		10 U	10 U	NA	NA	NA
3,3'-Dichlorobenzidine	91-94-1	12		10 U	10 U	NA	NA	NA
3-Nitroaniline	99-09-2	50		25 U	25 U	NA	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	*		25 U	25 U	NA	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	406		10 U	10 U	NA	NA	NA
4-Chloro-3-Methylphenol	59-50-7	63		10 U	10 U	NA	NA	NA
4-Chloroaniline	106-47-8	28		10 UR	10 UR	NA	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	*		10 U	10 U	NA	NA	NA
4-Methylphenol	106-44-5	4		10 U	10 U	NA	NA	NA
4-Nitroaniline	100-01-6	21		25 U	25 U	NA	NA	NA
4-Nitrophenol	100-02-7	56		25 U	25 U	NA	NA	NA
Bis(2-Chloroethoxy)Methane	111-91-1	*		10 U	10 U	NA	NA	NA
Bis(2-Chloroethyl)Ether	111-44-4	4		10 U	10 U	NA	NA	NA
Bis(2-Chloroisopropyl)Ether	108-60-1	10		10 U	10 U	NA	NA	NA
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		10 U	10 U	NA	NA	NA
Butylbenzyl Phthalate	85-68-7	140		10 U	10 U	NA	NA	NA
Carbazole	86-74-8	4		10 U	10 U	NA	NA	NA
Di-N-Butyl Phthalate	84-74-2	700		10 U	10 U	NA	NA	NA
Di-N-Octyl Phthalate	117-84-0	140		10 U	10 U	NA	NA	NA
Dibenzofuran	132-64-9	28		10 U	10 U	NA	NA	NA
Diethyl Phthalate	84-66-2	5600		10 U	10 U	NA	NA	NA
Dimethyl Phthalate	131-11-3	70000		10 U	10 U	NA	NA	NA
Hexachlorobenzene	118-74-1	1		10 U	10 U	NA	NA	NA
Hexachlorobutadiene	87-68-3	0.5		10 U	10 U	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	50		10 U	10 U	NA	NA	NA
Hexachloroethane	67-72-1	2.5		10 U	10 U	NA	NA	NA
Isophorone	78-59-1	37		10 U	10 U	NA	NA	NA
N-Nitroso-Di-N-Propylamine	621-64-7	4		10 U	10 U	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	7.1		10 U	10 U	NA	NA	NA
Nitrobenzene	98-95-3	4		10 U	10 U	NA	NA	NA
Pentachlorophenol	87-86-5	1		25 U	25 U	NA	NA	NA
Phenol	108-95-2	10		10 U	10 U	NA	NA	NA
PAHs (µg/L)								
1-Methylnaphthalene	90-12-0	20		0.58 J	2 U	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		0.69 J	2 U	NA	NA	NA
Acenaphthene	83-32-9	20		1 U	1 U	NA	NA	NA
Acenaphthylene	208-96-8	210		1 U	1 U	NA	NA	NA
Anthracene	120-12-7	2100		1 U	1 U	NA	NA	NA
Benzo(a)anthracene	56-55-3	0.2		0.1 U	0.1 U	NA	NA	NA
Benzo(a)pyrene	50-32-8	0.2		0.1 U	0.1 U	NA	NA	NA
Benzo(b)fluoranthene	205-99-2	0.2		0.1 U	0.1 U	NA	NA	NA
Benzo(g,h,i)perylene	191-24-2	210		0.1 U	0.1 U	NA	NA	NA
Benzo(k)fluoranthene	207-08-9	0.5		0.3 U	0.3 U	NA	NA	NA
Chrysene	218-01-9	4.8		0.1 U	0.1 U	NA	NA	NA
Dibenzo(a,h)anthracene	53-70-3	0.2		0.1 U	0.1 U	NA	NA	NA
Fluoranthene	206-44-0	280		0.2 U	0.2 U	NA	NA	NA

TABLE 7

VALIDATED GROUNDWATER ANALYTICAL RESULTS - APRIL 2000
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION	CAS Number	Screening Criteria[a]		OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
SAMPLE ID				NTC09G01414	NTC09G01514	NTC09G01614	NTC09G01714	NTC09G01914
LAB ID		Florida GCTL[b]	NTC BGSV[c]	A0D150148018	A0D150148019	A0D150148015	A0D150148016	A0D150148017
SAMPLE DATE				4/14/00	4/14/00	4/13/00	4/14/00	4/13/00
PAHs (µg/L) (Continued)								
Fluorene	86-73-7	280		2 U	2 U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	0.2		0.1 U	0.1 U	NA	NA	NA
Naphthalene	91-20-3	20		21	6.6	NA	NA	NA
Phenanthrene	85-01-8	210		1 U	1 U	NA	NA	NA
Pyrene	129-00-0	210		0.1 U	0.1 U	NA	NA	NA
Pesticides (µg/L)								
4,4'-DDD	72-54-8	0.1		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDE	72-55-9	0.1		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
4,4'-DDT	50-29-3	0.1		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Aldrin	309-00-2	0.005		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
alpha-BHC	319-84-6	0.2		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
alpha-Chlordane[d]	5103-71-9	2		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
beta-BHC	319-85-7	0.02		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
delta-BHC	319-86-8	2.1		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Dieldrin	60-57-1	0.005		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan I	959-98-8	42		0.05 U	0.02 J	0.05 UJ	0.05 U	0.05 U
Endosulfan II[d]	33213-65-9	42		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan Sulfate	1031-07-8	*		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Endrin	72-20-8	2		0.05 UJ	0.12 R	0.05 UJ	0.05 U	0.05 UJ
Endrin Aldehyde	7421-93-4	*		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Endrin Ketone	53494-70-5	*		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
gamma-BHC (Lindane)	58-89-9	0.2		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
gamma-Chlordane[d]	5103-74-2	2		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Heptachlor	76-44-8	0.4		0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.2		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
Methoxychlor	72-43-5	40		0.1 U	0.19 R	0.1 UJ	0.1 U	0.1 U
Toxaphene	8001-35-2	3		2 U	2 U	2 UJ	2 U	2 U
Herbicides (µg/L)								
2,4,5-T	93-76-5	70		2 U	2 U	2 U	2 U	2 U
2,4,5-TP (Silvex)	93-72-1	50		2 U	2 U	2 U	2 U	2 U
2,4-D	94-75-7	70		8 U	8 U	8 U	8 U	8 U
2,4-DB	94-82-6	56		8 U	8 U	8 U	8 U	8 U
4-Nitrophenol	100-02-7	56		4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		4 UR	4 UR	4 UR	4 UR	4 UR
Dicamba	1918-00-9	210		4 U	4 U	4 U	4 U	4 U
Dichlorprop	120-36-5	35		8 U	8 U	8 U	8 U	8 U
Dinoseb	88-85-7	7		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
MCPA	94-74-6	3.5		80 U	80 U	80 U	80 U	80 U
MCPP	7085-19-0	7		80 U	80 U	80 U	80 U	80 U
Pentachlorophenol	87-86-5	1		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	612 U	404 U	381 U	299 U	382 U
Antimony	7440-36-0	6	4.1	4.1 U	4.5 U	4.8 U	5.7 U	5.6 U
Arsenic	7440-38-2	50	5	2.5 U	2.5 U	2.5 U	16.9	2.5 U
Barium	7440-39-3	2000	31.4	12.7 U	6.1 U	13.2	5.9 U	9.2 U
Beryllium	7440-41-7	4	*	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	7440-43-9	5	5.6	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
Calcium	7440-70-2	*	36830	15900	268 U	3220 U	39800	4100 U
Chromium	7440-47-3	100	7.8	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Cobalt	7440-48-4	420	*	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Copper	7440-50-8	1000	5.4	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Iron	7439-89-6	300	1227	392	515	580	114	689
Lead	7439-92-1	15	4	1.4 U	1.4 U	1.4 U	1.4 U	1.8 U
Magnesium	7439-95-4	*	4560	1530	501	830	770	1070
Manganese	7439-96-5	50	17	36.5	7.8 U	17	5.9 U	6.7 U
Mercury	7439-97-6	2	0.12	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Nickel	7440-02-0	100	*	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Potassium	7440-09-7	*	5400	366	103 U	461	1020	642
Selenium	7782-49-2	50	9.7	4.1 U	3.1 U	3.5 U	3.1 U	3.1 U
Silver	7440-22-4	100	*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Sodium	7440-23-5	160000	18222	4420	4380	7780	691	6660
Thallium	7440-28-0	2	3.8	1 U	0.37 UJ	0.37 UJ	0.37 UJ	0.37 UJ
Vanadium	7440-62-2	49	20.6	2.7	2.1 U	2.5	2.1 U	5.1
Zinc	7440-66-6	5000	4	7 U	9.5 U	4.5 U	8.8 U	15.6 U

ATTACHMENT A

GROUNDWATER SAMPLE LOG SHEETS

SA 8

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NTC Orlando
Project No.: 7457
Location: SA8
Personnel: CM, BK, BB, RF
Weather Conditions: Sunny
Measuring Device: WLI
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
OLD-08-01	4/10/00	0855		13.5	3.41'			
OLD-08-02				13.5	3.40'			
OLD-08-03				13.5	2.92'			
OLD-08-04				13.5	3.13			
OLD-08-05				10.0	3.21'			
OLD-08-06				10.0	3.50'			
OLD-08-08				10.0	3.45'			
OLD-08-10				10.0	2.28'			
OLD-08-11				10.0	2.30'			
OLD-08-13				7.1	5.32'			
OLD-08-14				7.1	6.71'			
OLD-08-15				7.2	6.0'			
OLD-08-17				9.9	3.24'			
OLD-08-18				11.0	4.74'			
OLD-08-19				8.0	1.5'			
OLD-08-20				7.75	1.52'			
OLD-08-21		0920		7.8	2.17'			
OLD-08-12	4/10/00	0923			4.00'			

* All measurements to the nearest 0.01 foot

Page ____ of ____

Groundwater Purging and Sampling Log
Tetra Tech NUS

Date 4/15/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-01

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9297036

Sample ID No.: NTC08G00114 (TC / TD)

[X] Monitoring Well Data

Sampled By: R. Franklin

[ ] 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	0810	6.40	0.195	22.6	7.92	1.88	99	3.42	125
1	0.041	0.155	0815	6.43	0.193	22.6	7.37	1.72	95	3.43	100
2	0.163	0.617	0820	6.44	0.193	22.6	7.33	1.64	94	3.43	100
4	0.653	2.47	0825	6.45	0.190	22.6	7.31	1.58	95	3.43	100
6	1.469	5.56	0830	6.45	0.184	22.6	7.04	1.50	93	3.43	100
8	2.611	9.88	0835	6.46	0.186	22.8	6.6	1.44	91	3.43	100
10	4.08	15.44	0840	6.46	0.185	23.0	6.6	1.39	88	3.43	100
	[1 gal. = 3.785 L]										

56 TO

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 13.5'
Static Water Level: 3.41'
Tube Intake Depth: 8'

Start Purge (hr): 0755
End Purge (hr): 0840
Total Purge Time (min): 45
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: 041500									
Time: 0845	clear	6.46	0.85	23.0	6.6	1.39	88	3.43	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 4/15/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-02

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9742036

Sample ID No.: NTC08G00214

Sampled By: R. Franklin

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	6.68	0.423	26.5	13	4.29	83	3.42	100
1	0.041 / 0.155	1445	6.67	0.419	26.8	14	2.75	82	3.42	100
2	0.163 / 0.617	1450	6.70	0.416	26.9	13	2.59	81	3.42	100
4	0.653 / 2.47	1455	6.72	0.410	26.6	14	2.35	72	3.42	100
6	1.469 / 5.56	1500	6.69	0.40	26.5	12	2.01	62	3.42	100
8	2.611 / 9.88	1505	6.63	0.395	26.3	12	1.87	57	3.42	100
10	4.08 / 15.44	1510	6.63	0.379	26.2	11	1.63	40	3.42	100
	[1 gal. = 3.785 L]	1515	6.58	0.372	26.1	11	1.49	29	3.42	100
		1520	6.58	0.370	26.1	11	1.42	25	3.42	100

PID Reading (ppm):

Well Casing Diameter: 2"
Total Well Depth: 13.5'
Static Water Level: 3.40'
Tube Intake Depth: 8'

Start Purge (hr): 1430
End Purge (hr): 1520
Total Purge Time (min): 50
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: 4/15/00									
Time: 1530	Clear	6.58	0.370	26.1	11	1.42	25	3.42	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): R. Franklin

Date 4/15/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-03

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9297036

Sample ID No.: NTC08G00514

Sampled By: A. Franklin

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	1005	6.14	0.229	24.0	8.9	1.67	26	2.97	100
1	0.041	0.155	1010	6.12	0.230	24.2	8.6	1.45	25	2.97	100
2	0.163	0.617	1015	6.11	0.229	24.3	8.6	1.36	25	2.97	100
4	0.653	2.47	1020	6.10	0.228	24.6	8.9	1.23	28	2.97	100
6	1.469	5.56	1025	6.09	0.227	24.9	8.2	1.14	33	2.97	100
8	2.611	9.88	1030	6.08	0.226	25.1	7.9	1.07	36	2.97	100
10	4.08	15.44	1035	6.08	0.222	25.1	8.1	1.05	36	2.97	100
	[1 gal. = 3.785 L]										

PID Reading (ppm):

Well Casing Diameter: 2"
Total Well Depth: 13.5
Static Water Level: 2.97
Tube Intake Depth: 8'

Start Purge (hr): 0955
End Purge (hr): 1035
Total Purge Time (min): 40
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: 4/15/00									
Time: 1040	Clear	6.08	0.222	25.1	8.1	1.05	36	2.97	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

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):

Groundwater Purging and Sampling Log
Tetra Tech NUS

Date 4/15/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-04

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 429 2036

Sample ID No.: NTC08G00414

Sampled By: R. Franklin

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	0910	6.21	0.152	23.5	7.2	4.24	139	3.18	low
1	0.041	0.155	0915	6.13	0.153	23.5	7.2	1.95	136	3.18	100
2	0.163	0.617	0920	6.11	0.153	23.4	7.0	1.79	137	3.18	low
4	0.653	2.47	0925	6.10	0.156	23.3	7.0	1.66	138	3.18	low
6	1.469	5.56	0930	6.08	0.158	23.3	7.0	1.58	138	3.18	100
8	2.611	9.88	0935	6.07	0.162	23.4	7.3	1.47	137	3.18	low
10	4.08	15.44	0940	6.06	0.162	23.4	7.3	1.42	135	3.18	low
	[1 gal. = 3.785 L]										

PID Reading (ppm):

Well Casing Diameter: 2"
Total Well Depth: 13.5
Static Water Level: 3.13'
Tube Intake Depth: 8'

Start Purge (hr): 0900
End Purge (hr): 0940
Total Purge Time (min): 40
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: 4/15/00									
Time: 0945	Clear	6.06	0.162	23.4	7.3	1.42	135	3.18	low

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Groundwater Purging and Sampling Log

Date 4/15/00

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-05

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC08G00514

[X] Monitoring Well Data

Sampled By: A. Franklin

Serial Nos.: 929 2036

[ ] 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	1200	5.95	0.123	26.3	14	4.23	-34	-	100
1	0.041 / 0.155	1205	5.94	0.122	26.5	11	1.56	-41	-	100
2	0.163 / 0.617	1210	5.94	0.122	26.8	9.3	1.42	-44	-	100
4	0.653 / 2.47	1215	5.94	0.121	27.0	10.0	1.42	-46	-	100
6	1.469 / 5.56	1220	5.92	0.121	27.1	8.5	1.26	-48	-	100
8	2.611 / 9.88	1225	5.91	0.121	26.9	7.7	1.15	-50	-	100
10	4.08 / 15.44	1230	5.92	0.120	26.7	7.3	1.09	-52	-	100
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 10'
Static Water Level: 3.21
Tube Intake Depth: 7.5'

Start Purge (hr): 1145
End Purge (hr): 1230
Total Purge Time (min): 45
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: 4/15/00									
Time: 1235	Clear	5.92	0.120	26.7	7.3	1.09	-52	-	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

DTW measurement not taken during purging due to diameter of well - 0.5"

Method:

- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [ ] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:

- [ ] Polyethylene
- [ ] Teflon
- [X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Groundwater Purging and Sampling Log
Tetra Tech NUS

Date 4/15/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-06

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC08G-0614

[X] Monitoring Well Data

Sampled By: J Franklin

Serial Nos.: 4292036

[ ] 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	1105	6.28	0.164	24.6	7.5	1.89	-3	–	100
1	0.041 / 0.155	1110	6.26	0.163	24.8	7.1	1.54	-5	–	100
2	0.163 / 0.617	1115	6.25	0.164	25.0	6.3	1.41	-12	–	100
4	0.653 / 2.47	1120	6.23	0.164	25.3	6.1	1.36	-15	–	100
6	1.469 / 5.56	1125	6.23	0.164	25.9	6.1	1.24	-20	–	100
8	2.611 / 9.88	1130	6.23	0.163	25.9	6.1	1.23	-21	–	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 10'
Static Water Level: 3.50
Tube Intake Depth: 7.5'

Start Purge (hr): 1055
End Purge (hr): 1130
Total Purge Time (min): 35
Total Vol. Purged: 400 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: 4/15/00									
Time: 1135	Clear	6.23	0.163	25.9	6.1	1.23	-21	–	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
DTW measurements not taken during purging due to diameter of well - 0.5"

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Date 4/15/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA8
Sample Location: OLD-08-08

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272023 1
927052

Sample ID No.: NTC08G000814
Sampled By: CM
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	0840	6.53	41.2	19.2	4.73	4.17	111	N/A	100
1	0.041	0.155	0850	6.62	41.3	19.1	4.20	2.19	93		100
2	0.163	0.617	0859	6.67	41.2	19.4	3.90	1.83	84		100
4	0.653	2.47	0909	6.67	40.9	19.6	3.47	1.69	79		100
6	1.469	5.56	0915	6.67	41.0	19.5	3.54	1.22	70		100
8	2.611	9.88	0920	6.67	41.0	19.4	3.47	0.61	66		100
10	4.08	15.44	0925	6.68	41.0	19.4	4.02	0.72	69		100
	[1 gal. = 3.785 L]										

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 10.0'
Static Water Level: 3.45'
Tube Intake Depth: 7.00'

Start Purge (hr): 0834
End Purge (hr): 0925
Total Purge Time (min): 51
Total Vol. Purged: 5.1 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: 4/15/00									
Time: 0930	yellow-gr	6.68	41.0	19.4	4.02	0.72	69	N/A	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
Micro-well NOT ABLE TO measure DTW

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): Chris Morin

Date 4/15/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: SA9 OLD-08-16

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272023/ 927052

Sample ID No.: NTC08601614

Sampled By: CM

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	1014	5.96	15.7	18.5	9.42	1.26	-76	N/A	100
1	0.041 / 0.155	1024	5.92	15.8	19.1	8.82	1.38	-74		100
2	0.163 / 0.617	1034	5.92	16.0	19.1	7.41	1.41	-76		100
4	0.653 / 2.47	1042	5.93	16.1	18.9	6.48	1.13	-78		100
6	1.469 / 5.56	1047	5.90	16.2	18.9	6.08	0.91	-77		100
8	2.611 / 9.88	1052	5.91	16.4	18.9	6.01	0.90	-78		100
10	4.08 / 15.44	1058	5.91	16.5	18.8	5.35	0.90	-79		100
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 10.0'
Static Water Level: 2.28'
Tube Intake Depth: 7.0'

Start Purge (hr): 1010
End Purge (hr): 1058
Total Purge Time (min): 48
Total Vol. Purged: 4.8L

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: 4/15/00									
Time: 1103	yellowish	5.91	16.5	18.8	5.35	0.90	-79	N/A	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Micro-well NOT able to measure DTW

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Chris Martin

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 0416 00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: 08-11

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos. 9272043

Sample ID No. NTC 08601114

Sampled By: BRB

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	0935	6.10	28	22.7	56.0	0.15	-42	N/A	100
1	0.041	0.155	0940	6.10	28	22.7	39.0	0.00	-56		100
2	0.163	0.617	0945	6.10	27	22.7	33.9	0.00	-63		100
4	0.653	2.47	0950	6.10	27	22.7	29.3	0.00	-65		100
6	1.469	5.56	0955	6.09	27	22.8	25.1	0.00	-72		100
8	2.611	9.88	1000	6.09	27	22.8	24.1	0.00	-75		100
10	4.08	15.44	1005	6.10	27	22.9	23.1	0.00	-78		100
	[1 gal. = 3.785 L]		1010	6.09	27	22.9	21.0	0.00	-80		100
			1015	6.09	27	23.0	19.0	0.00	-84		100
PID Reading (ppm): 0			1020	6.09	27	23.0	16.9	0.00	-85		100
			1025	6.08	27	23.1	16.2	0.00	-86		100
			1030	6.09	27	23.0	14.7	0.00	-88		100
Well Casing Diameter: .5			1035	6.09	27	23.0	14.6	0.00	-89		100
Total Well Depth: 10			1040	6.10	27	22.9	13.3	0.00	-90		100
Static Water Level: 2.30			1045	6.09	27	22.8	12.1	0.00	-91		100
Tube Intake Depth: 6.5			1050	6.09	27	22.7	10.82	0.00	-92		100
			1055	6.09	27	22.7	10.44	0.00	-92		100
Start Purge (hr): 0920			1100	6.09	27	22.7	11.0	0.00	-92		100
End Purge (hr): 1110			1105	6.09	27	22.7	9.73	0.00	-92		100
Total Purge Time (min): 110			1110	6.09	27	22.7	9.56	0.00	-92		100
Total Vol. Purged: ~2.5gal											

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: 041600									
Time 1115	clear	6.09	27	22.7	9.54	0.00	-92	✓	N/M

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
Micro-well

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: NTC 08D1403

Signature(s):

Date 4/15/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: SA8 OLD-08-13

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097

Sample ID No.: NTC08G01314
Sampled By: BK
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	1044	5.52	12	24.2	~~510~~	5.51	-38	Micro well Not taken	~130
1	0.041 / 0.155					54.8				
2	0.163 / 0.617									
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]									

(WELL PURGED DRY)

PID Reading (ppm): Ø

Well Casing Diameter: 0.5"
Total Well Depth: ~11'
Static Water Level: 5.32
Tube Intake Depth: ~10'

Start Purge (hr): 1005
End Purge (hr): 1025
Total Purge Time (min): 20
Total Vol. Purged: ~1.5L

(Started + stopped pump several times due to low flow — some effort required to collect sample.)

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: 041500									
Time: 1106	16	5.47	12	24.9	50.3	5.29	-34	NT	~130

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Micro well - TAL metals collected - well purged dry after filling flow-through cell

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): Robert L. Knight

Date 4/15/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-08-14

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272023/ 927052

Sample ID No. NTC08G0 1414
Sampled By: CM
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									
1	0.041 / 0.155									
2	0.163 / 0.617									
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]									

DRY WELL

PID Reading (ppm): Ø

Well Casing Diameter: Ø 5"
Total Well Depth: 9.ØØ
Static Water Level: 6.71
Tube Intake Depth: ~~9.ØØ~~ 8.5' → CM 4/15/00

Start Purge (hr): 13ØØ
End Purge (hr): 1341
Total Purge Time (min): 33
Total Vol. Purged:

1336 Begin Purging / 1341 stop purging well goes DRY / 87mL / pumped 400mL not enough
Calculated one well volume
to sample or take parameters.

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:									
Time:									

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓ CM
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓ CM
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓ CM
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: 1316 Stop purging CM
1316 stop purging well goes DRY
DRY WELL

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): Chris Moore

Date 4/15/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-15

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272031 / 927652

Sample ID No.: ~~NTC08G00~~ NTC08G0514
Sampled By: CM
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	1502	4.80	20.2	19.3	32.2	3.10	8.0	N/A	100
1	0.041 / 0.155	1512	4.75	20.1	19.0	12.0	1.00	11.0		100
2	0.163 / 0.617	1522	4.74	20.0	18.9	10.3	1.31	12.0		100
4	0.653 / 2.47	1527	4.74	20.0	18.9	8.0	1.18	11.0		100
6	1.469 / 5.56	1532	4.74	20.0	18.9	7.8	1.15	11.0		100
8	2.611 / 9.88	1537	4.75	19.9	18.9	6.0	1.14	11.0	✓	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 11.0'
Static Water Level: 6.0'
Tube Intake Depth: 10.4'

Start Purge (hr): 1439
End Purge (hr): 1539
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: 4/15/00									
Time: 1542	yellowish	4.75	19.9	18.9	6.0	1.14	11.0	N/A	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
Micro-Well NOT able to measure DTW

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): C Mann

Date 4/15/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: SA8 OLD-08-17

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097

Sample ID No.: NTC08GC01714
Sampled By: BK
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	0838	6.13	37	22.8	6.17	1.45	126		~150
1	0.041	0.155	0845	5.87	36	22.8	6.04	0.47	113		~130
2	0.163	0.617	0850	6.15	36	22.9	5.85	0.41	107		
4	0.653	2.47	0855	6.15	35	23.1	5.73	0.33	102		
6	1.469	5.56	0900	6.16	35	23.2	5.72	0.74	102		
8	2.611	9.88	0905	6.16	35	23.3	5.68	0.70	99		
10	4.08	15.44	0910	6.16	35	23.2	5.70	0.72	98		
	[1 gal. = 3.785 L]										

MCAD well NT (Not Taken)

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 9.9'
Static Water Level: 3.24'
Tube Intake Depth: 7.5'

Start Purge (hr): 0825
End Purge (hr): 0910
Total Purge Time (min): 45
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: [illegible]									
Time: 0910	yellow	6.16	35	23.2	5.70	0.72	98	NT	~130

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Monitor well - TAL metals collected.

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): Robert L. Knight

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 4/16/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-08-18

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type: _____

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9292036

Sample ID No.: NTC08G01814

Sampled By: A. Frankl

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	0920	5.43	0.096	23.0	99.6	2.12	-2	—	100
1	0.041 / 0.155	0930	5.41	0.097	23.2	49.9	1.53	-9	—	100
2	0.163 / 0.617	0940	5.40	0.098	23.4	77.8	1.21	-13	—	100
4	0.653 / 2.47	0950	5.40	0.098	23.5	104.0	1.06	-17	—	100
6	1.469 / 5.56	1000	5.41	0.098	23.6	91.00	0.99	-20	—	100
8	2.611 / 9.88	1010	5.38	0.098	23.7	64.8	0.94	-22	—	100
10	4.08 / 15.44	1020	5.46	0.098	23.8	59.9	0.94	-21	—	100
	[1 gal = 3.785 L]	1030	5.37	0.098	24.1	56.7	0.92	-20	—	100
		1040	5.45	0.098	24.4	46.2	0.91	-20	—	100
PID Reading (ppm):		1050	5.36	0.098	24.6	41.1	0.88	-20	—	100
		1100	5.42	0.097	24.8	34.6	0.88	-18	—	100
		1110	5.36	0.097	24.9	28.3	0.85	-19	—	100
Well Casing Diameter: 0.5"		1120	5.34	0.097	25.0	21.2	0.82	-19	—	100
Total Well Depth: 11'		1130	5.33	0.097	25.1	17.6	0.82	-19	—	100
Static Water Level: 4.74'		1140	5.32	0.097	25.2	15.1	0.82	-19	—	100
Tube Intake Depth: 8.5'		1150	5.31	0.096	25.1	12.5	0.82	-18	—	100
Start Purge (hr): 0905										
End Purge (hr): 1150										
Total Purge Time (min): 165										
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: 4/16/00									
Time: 1200	Clear	5.31	0.096	25.1	12.5	0.82	-18	—	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

DTW measurements not taken during purging due to well diameter. 0.5"

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): M. Tabel

.02

Date 4/15/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SRB
Sample Location: OLD-08-19

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097

Sample ID No.: NTC08 60 1914

Sampled By: BK

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	1507	6.06	12	26.2	>999	0.87	-88		~130
1	0.041	0.155	1515	5.98	12	26.2		0.61	-94	unknown	
2	0.163	0.617	1525	5.95	12	25.9	414	0.00	-95		
4	0.653	2.47	1535	5.92	12	25.7	232	0.00	-95		
6	1.469	5.56	1545	5.89	12	25.7	137	0.00	-95		
8	2.611	9.88	1555	5.88	12	25.6	88.2	0.00	-96		
10	4.08	15.44	1605	5.87	12	25.2	58.3	0.00	-96		
	[1 gal. = 3.785 L]		1610	5.86	12	25.2	56.0	0.00	-96		
			1613	5.87	12	25.2	55.4	0.00	-97		
PID Reading (ppm): 0			1616	5.88	12	25.3	51.4	0.00	-98		

.163
.041
.122
.462

Well Casing Diameter: 2" 1.5"
Total Well Depth: ~8.0'
Static Water Level: ~1.5
Tube Intake Depth: ~7.0'

Start Purge (hr): 1500
End Purge (hr): 1620
Total Purge Time (min): 80
Total Vol. Purged:

Lake surface water turbidity = 22.5 NTU

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: 4/15/00									
Time: 1625	brownish	5.88	12	25.3	51.4	0.00	-98	unknown	130

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Purged ~6 L prior to taking readings to "develop" drive point
One casing volume = 3 L

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Robert L. Knight

LAKE PARAMETERS

Date 4/16/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA8
Sample Location: OD-08-20

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272023

Sample ID No.: NTC08G02014
Sampled By: BK
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	1017	6.34	24.8	19.59	235	1.78	-94	NT	~150
1	0.041 / 0.155	1025	6.45	23.3	19.73	135	1.73	-101	1.04'	~130
2	0.163 / 0.617	1035	6.49	22.1	19.89	37.4	1.42	-109	1.09'	~130
4	0.653 / 2.47	1045	6.52	22.0	20.02	24.1	1.86	-112	NT	~130
6	1.469 / 5.56	1055	6.53	21.6	20.11	18.6	1.78	-114	NT	~130
8	2.611 / 9.88	1105	6.51	21.4	20.3	14.4	1.74	-115	NT	~130
10	4.08 / 15.44	1115	6.50	21.3	20.5	13.9	1.69	-117	NT	~130
	[1 gal. = 3.785 L]	1120	6.48	21.3	20.7	13.5	1.70	-115	NT	~130
		1125	6.48	21.2	20.8	13.5	1.56	-114	NT	~130
PID Reading (ppm): 0		1135	6.48	21.2	21.0	13.6	1.48	-116	NT	~130

1.5" = ~.1 gal/ft or ~.4 L/ft

Slow as pump work pu

Well Casing Diameter: 1.5"
Total Well Depth: 7.75'
Static Water Level: 1.53'
Tube Intake Depth: 6.75'

WC = 6.22

Start Purge (hr): 0950
End Purge (hr): 1145
Total Purge Time (min): 115
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: 4/16/00									
Time: 1145	clear	6.50	21.1	21.1	13.5	1.42	-119		~130

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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Lake Water

Comments:
~~H_2O level above casing~~ BTOC 0.9"
Purged ~ 3 gallons prior to starting flow through cell @ 1015
LAKE Parameters on back of sheet

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:	Duplicate ID No.:	Signature(s):
N/A	N/A	Robert L. Knight

over →

Date 4/10/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: SA8 OLD-08-21

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.:

Sample ID No.: NTC08 6021 11

Sampled By: CM

C-O-C No.:

mS/m

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	1007	5.10	12.0	22.7	592.0	0.54	3.0	2.21	100
1	0.041 / 0.155	1017	5.06	11.0	22.8	445.0	0.62	1.0	2.21	100
2	0.163 / 0.617	1027	5.04	10.0	22.8	341.0	0.35	-1.0	2.21	100
4	0.653 / 2.47	1037	5.03	10.0	22.9	251.0	0.41	-1.0	2.21	100
6	1.469 / 5.56	1047	5.01	10.0	23.1	163.0	0.43	-2.0	2.21	100
8	2.611 / 9.88	1057	5.02	10.0	23.2	132.0	0.24	-4.0		
10	4.08 / 15.44	1107	5.02	10.0	23.4	95.8	0.34	-5.0		
	[1 gal. = 3.785 L]	1117	5.02	10.0	23.7	67.6	0.70	-4.0		
		1122	5.02	10.0	23.9	616.3	0.54	-6.0		
PID Reading (ppm): 0		1127	5.01	10.0	24.0	59.0	0.51	-4.0		
		1135	5.01	10.0	24.0	52.0	0.57	-6.0		
		1140	5.01	10.0	23.9	44.3	0.54	-7.0		
Well Casing Diameter: 1.5"		1145	5.00	10.0	23.9	40.7	0.47	-7.0		
Total Well Depth: 7.8'		1150	5.01	10.0	24.0	38.0	0.44	-9.0		
Static Water Level: 2.17'		1155	5.01	10.0	24.0	33.9	0.30	-9.0		
Tube Intake Depth:		1200	5.01	10.0	24.0	30.5	0.20	-10.0		
		1205	5.01	10.0	24.0	26.2	0.21	-10.0		
Start Purge (hr): 0900		1210	5.01	9.0	24.0	16.4	0.05	-14.0		
End Purge (hr): 1220		1215	5.01	9.0	24.0	11.6	0.05	-9.0		
Total Purge Time (min): 1:02		1220	5.01	9.0	24.0	11.7	0.15	-9.0		
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: 4/10/00									
Time: 1225	Clear	5.01	9.0	24.0	11.7	0.5	-9.0	9.7	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	1	1-liter	amber glass	
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Well casing is 8.0'
0900 water very sludge like
0935 stop purging after 3 gallons
the water has clear up to a clear
brownish color

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:	Duplicate ID No.:	Signature(s):
N/A	N/A	CM Marin

NOTE: Additional comments on back

2.

SA 9

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NTC Orlando
Project No.: 7454-
Location: SA9
Personnel: CM, BK, BB, RF
Weather Conditions: Sunny
Measuring Device: WLI
Tidally Influenced: Yes ___ No X
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
OLD-09-01	4/13/00	0841		13.5	3.72			
OLD-09-02		0810		12.0	6.34			
OLD-09-03		0814		12.0	6.97			
OLD-09-04		0840		12.0	6.23			
OLD-09-05		0834		10.0	3.43			
OLD-09-06		0823		10.0	3.18			
OLD-09-07		0847		12.0	5.25			
OLD-09-10		0849		10.0	3.73			
OLD-09-11		0820		10.0	4.04			
OLD-09-12		0851		10.0	4.10			
OLD-09-14		0844		7.4	6.47			
OLD-09-15		0831		7.2	6.03			
OLD-09-16		0828		7.1	6.02			
OLD-09-17		0875		10.1	4.59			
OLD-09-19		0836		30.5	4.02			
~~OLD-09-09~~	~~4/13/00~~				~~3.64~~			CM 4/13
OLD-09-09	4/13/00	0810			3.96			Top of 4"
OLD-09-13		0823			4.40			
OLD-09-18		0839			4.20			
OLD-09-08		0842			4.25			

* All measurements to the nearest 0.01 foot

Date 4/13/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-09-01

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC09G0014

[X] Monitoring Well Data

Serial Nos.: 9272023 / 9270052

Sampled By: CM

[ ] 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	1611	6.58	70.1	19.82	5.99	1.84	-95	3.80	100
1	0.041 / 0.155	1616	6.62	70.1	20.30	5.56	1.75	-93	3.80	100
2	0.163 / 0.617	1626	6.61	69.8	20.45	5.54	4.54	-88	3.80	100
4	0.653 / 2.47	1630	6.61	69.3	20.45	5.51	2.12	-88	3.80	100
6	1.469 / 5.56	1640	6.59	69.2	20.69	5.56	1.98	-85	3.83	100
8	2.611 / 9.88	1650	6.65	68.2	20.48	5.59	1.91	-84	3.85	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 13.5
Static Water Level: 3.75
Tube Intake Depth: ~10.0

Start Purge (hr): 1601
End Purge (hr): 1700
Total Purge Time (min): 59
Total Vol. Purged: ~5.9L

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: 4/13/00									
Time: ~~1650~~ 1702	yellow	6.65	68.2	20.48	5.59	1.91	-84	3.85	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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: NTC091404

Signature(s): Chu Marin

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 4/13/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-09-02

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC09G00214

[X] Monitoring Well Data

Serial Nos.: 9292036

Sampled By: R Franklin

[ ] 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	0900	4.46	0.070	23.3	27.1	3.59	37	6.74	100
1	0.041 / 0.155	0910	4.67	0.064	~~23.3~~ 25.6	24.0	1.92	32	6.74	100
2	0.163 / 0.617	0920	4.60	0.066	23.4	24.9	1.83	30	6.74	100
4	0.653 / 2.47	0930	4.44	0.066	24.1	25.3	1.13	25	6.74	100
6	1.469 / 5.56	0940	4.44	0.065	24.2	25.5	1.03	22	6.74	100
8	2.611 / 9.88	0950	5.05	0.065	24.4	~~24.4~~	0.97	21	6.74	100
10	4.08 / 15.44	1000	4.87	0.065	24.7	24.9 ~~25.2~~	0.94	19	6.74	100
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 2"
Total Well Depth: 12'
Static Water Level: 6.34'
Tube Intake Depth: 9'

Start Purge (hr): 0840
End Purge (hr): 1000
Total Purge Time (min): 120
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: 4/13/00									
Time: 1010	Yellow tint	4.87	0.065	24.7	25.2	0.94	19	6.74	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	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): [signature]

Date 041300

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: 0903

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC09600314

[X] Monitoring Well Data

Serial Nos.: 927 2043

Sampled By: BRB

[ ] 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	0900	5.40	10	22.1	5.7	1.21	-41	8.76	125
1	0.041 / 0.155	0910	5.41	10	22.2	5.8	0.92	-47	8.43	60
2	0.163 / 0.617	0920	5.42	9	22.6	6.2	0.99	-53	8.33	60
4	0.653 / 2.47	0930	5.42	9	23.0	6.6	0.84	-59	8.41	50
6	1.469 / 5.56	0940	5.42	9	23.5	7.0	0.85	-60	8.23	50
8	2.611 / 9.88	0950	5.43	9	23.7	7.3	0.78	-61	8.05	50
10	4.08 / 15.44	1000	5.43	9	24.0	7.3	0.80	-63	7.99	50
	[1 gal. = 3.785 L]									

SLOW PUMP

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 12
Static Water Level: 6.99
Tube Intake Depth: 10

Start Purge (hr): 0845
End Purge (hr): 1000
Total Purge Time (min): 75
Total Vol. Purged: ~29 gal

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: 041300									
Time: 1005	clear	5.43	9	24.0	7.3	0.79	-62	7.98	N/A

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	X
Pesticides	8081A	None	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	FIELD HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
DUPLICATE TAKEN

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: NTC09D1405

Signature(s):

Date 4/13/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD09-04
Sample ID No.: NTC09G0014
Sampled By: BK

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097/9272121

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	1020	5.75	25	24.8	25.6	0.20	-105	7.02	~100
1	0.041	0.155	1025	5.75	25	24.7	22.7	0.05	-106	7.74	~100
2	0.163	0.617	1030	5.75	25	24.7	20.9	0.00	-108	7.84	~75
4	0.653	2.47	1035	5.75	25	24.8	20.7	0.00	-109	7.91	~75
6	1.469	5.56	1040	5.75	25	24.8	21.8	0.00	-110	7.92	~50
8	2.611	9.88	1045	5.75	25	24.8	21.3	0.00	-110	7.95	~80
10	4.08	15.44	1050	5.77	25	24.8	19.9	0.00	-112	7.98	~75
	[1 gal. = 3.785 L]		1055	5.76	25	24.8	19.6	0.00	-112	8.00	~80

PID Reading (ppm): 0

Well Casing Diameter: 2"
Total Well Depth: 17.0
Static Water Level: 6.23
Tube Intake Depth: ~10.0

Start Purge (hr): 1015
End Purge (hr): 1100
Total Purge Time (min): ~75
Total Vol. Purged: ~5.625 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: 4/13/00									
Time: 1100	yellow	5.81	25	25.8	21.7	0.66	-107	8.00	~80

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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Turbidity wouldn't drop below 10. Started originally @ 0927 - WL indicator screwed up - stopped pumping @ ~1000 - thought to fill next day

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: N/A
Duplicate ID No.: N/A

Signature(s): Robert L. Knight

Date 4/14/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-09-05

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097 / 9271 / 21

Sample ID No.: NTC09G0005

Sampled By: BK

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	1134	5.92	24.0	21.4	27.40	0.83	-29	NT	100
1	0.041 / 0.155	1144	5.92	23.0	21.4	12.50	1.31	-23	4.9 (est)	
2	0.163 / 0.617	1154	5.94	23.0	21.3	9.90	1.32	-54		
4	0.653 / 2.47	1204	5.94	23.0	21.3	8.53	1.10	-54		
6	1.469 / 5.56	1214	5.95	23.0	21.3	5.91	1.04	-63		
8	2.611 / 9.88	1224	5.96	23.0	21.3	4.78	1.00	-66		
10	4.08 / 15.44	1234	5.95	23.0	21.3	4.55	1.01	-63		
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 10.0
Static Water Level: 3.24
Tube Intake Depth: 7.0

Start Purge (hr): 1120
End Purge (hr): 1236
Total Purge Time (min): 110
Total Vol. Purged: ~7.6L

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: 4/14/00									
Time: 1234	~~Clear~~ Yellow tint	5.95	23.0	21.3	4.55	1.01	-63	NT	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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Micro-Well DTW NOT TAKEN

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Chris Morris

Date 4/13/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-09-06

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272097 / 927121

Sample ID No.: NTC09600614
Sampled By: BK
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	1625	4.78	12	23.5	140	0.22	22	NT	~130
1	0.041 / 0.155	1635	4.72	12	23.6	78.6	0.23	23		~140
2	0.163 / 0.617	1645	4.70	12	23.3	48.3	0.00	21		~130
4	0.653 / 2.47	1655	4.74	12	23.1	27.4	0.01	13	MISSED WELL	~130
6	1.469 / 5.56	1705	4.84	12	23.5	14.7	0.00	0		~130
8	2.611 / 9.88	1715	4.83	12	23.4	14.9	0.00	1		~130
10	4.08 / 15.44	1725	4.86	12	23.1	13.7	0.00	-6		~150
	[1 gal. = 3.785 L]	1735	4.91	13	23.2	9.7	0.00	-13		~130

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 16.0'
Static Water Level: 3.18'
Tube Intake Depth: 8.0'

Start Purge (hr): 1615
End Purge (hr): 1735
Total Purge Time (min): 80
1.03L → Total Vol. Purged: ~~[illegible]~~ 4/13/00

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: 041300									
Time: 1740	clear	4.91	13	23.2	9.7	0.00	-13	NT	~130

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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
MS/MSD collected
Single-speed pump - lowest setting possible

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: ✓
Duplicate ID No.: N/A

Signature(s): Robert L. Wright

NTC09600614 MS/MSD

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 4/13/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-09-07

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9292036

Sample ID No.: NTC09G00714

Sampled By: R. Franklin

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	1310	4.59	0.074	27.9	393	2.35	159	—	100
1	0.041 / 0.155	1320	4.49	0.072	27.6	161	1.37	179	—	100
2	0.163 / 0.617	1330	4.44	0.071	27.7	89.3	1.21	192	—	100
4	0.653 / 2.47	1340	4.39	0.070	27.6	64.1	1.04	203	—	100
6	1.469 / 5.56	1350	4.37	0.069	26.9	43.7	0.97	207	—	100
8	2.611 / 9.88	1400	4.36	0.069	26.8	31.8	0.89	208	—	100
10	4.08 / 15.44	1410	4.34	0.068	26.9	27.9	0.83	213	—	100
	[1 gal. = 3.785 L]	1420	4.34	0.068	27.1	25.7	0.82	214	—	100
		1430	4.36	0.068	27.9	24.7	0.80	214	—	100
PID Reading (ppm):		1440	4.37	0.068	27.6	24.5	0.78	214	—	100
		1450	4.38	0.067	27.3	23.9	0.77	211	—	100

Well Casing Diameter: 0.5"
Total Well Depth: 12'
Static Water Level: 5.31'
Tube Intake Depth: 9'

Start Purge (hr): 1250
End Purge (hr): 1450
Total Purge Time (min): 120
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: 4/13/00									
Time: 1510	Clear	4.38	0.067	27.3	23.9	0.77	211	—	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	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
No DTW measurements taken during purging due to diameter (0.5") of well.

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): [signature]

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 4/13/00

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-09-10

[ ] Domestic Well Data

Flow-Thru Cell
Make\Model: HORIBA U-22

Sample ID No.: NTC09G01014

[X] Monitoring Well Data

Sampled By: R. Franklin

Serial Nos.: 4292036

[ ] 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	5.78	0.131	24.0	45.8	1.55	31	-	100
1	0.041 / 0.155	1630	5.74	0.130	24.0	34.3	1.19	27	-	100
2	0.163 / 0.617	1640	5.73	0.124	23.9	9.56	0.96	22	-	100
4	0.653 / 2.47	1650	5.73	0.236	23.7	7.86	0.86	18	-	100
6	1.469 / 5.56	1700	5.75	0.131	23.6	6.98	0.82	16	-	100
8	2.611 / 9.88	1710	5.75	0.134	23.5	7.32	0.86	15	-	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 10'
Static Water Level: 3.50
Tube Intake Depth: 7'

Start Purge (hr): 1605
End Purge (hr): 1710
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: 4/13/00									
Time: 1720	Clear	5.75	0.134	23.5	7.32	0.86	15	—	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	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): [signature]

Date 4/13/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-09-11

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9272023/ 927052

Sample ID No.: NTC09G01114

Sampled By: BK

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	0958	5.49	17.9	21.19	7.72	5.09	-38	N/A	130
1	0.041	0.155	1004	5.49	17.5	21.05	7.17	3.27	-42	N/A	130
2	0.163	0.617	1009	5.52	17.4	21.05	6.71	1.61	-45	N/A	130
4	0.653	2.47	1014	5.53	17.5	21.07	6.43	2.23	-49	N/A	130
6	1.469	5.56	1020	5.54	17.4	21.11	6.28	1.74	-53	N/A	130
8	2.611	9.88	1025	5.55	17.5	21.15	5.96	1.16	-55	N/A	130
10	4.08	15.44	1030	5.57	17.4	21.15	5.97	1.12	-57	N/A	130
	[1 gal. = 3.785 L]		1035	5.65	17.6	21.22	5.99	1.10	-59	N/A	130

PID Reading (ppm): 0

Well Casing Diameter: 0.5
Total Well Depth: 10.0
Static Water Level: 4.04
Tube Intake Depth: 5.0

Start Purge (hr): 0940
End Purge (hr): 1037
Total Purge Time (min): 57
Total Vol. Purged: 7.4 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: 4/13/00									
Time: 1040	yellow	5.65	17.6	21.22	5.99	1.10	-59	N/A	130

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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Flow Rate will not go under 130 ml/min because peristaltic pump will turn off. / DTW can NOT be measured (micro well)

Method:
[X] ~~Peristaltic Pump~~ cm 4/13/00
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Chris Moni

Comments: 1102 WELL DRY → WAITING for Recharge
1405 Begin sampling / 1447 WELL DRY → WAITING for recharge
1515 Begin sampling / 1545 Finish sampling

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 041300

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: 09-12

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 927 2043

Sample ID No.: NTC 09G01214

Sampled By: BRB

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	1410	4.11	12	25.7	129	1.25	31	N/A	75
1	0.041 / 0.155	1420	4.02	12	25.9	88	0.97	31		70
2	0.163 / 0.617	1430	3.96	12	26.5	37	0.84	34		70
4	0.653 / 2.47	1440	3.95	12	26.2	33	0.83	32		70
6	1.469 / 5.56	1450	3.95	13	25.9	24	0.71	31		70
8	2.611 / 9.88	1500	3.94	13	25.2	17	0.66	28		70
10	4.08 / 15.44	1510	3.93	13	24.9	12	0.61	26		70
	[1 gal. = 3.785 L]	1520	3.93	13	25.2	10	0.60	26		70

PID Reading (ppm): 0

Well Casing Diameter: ~~7.86~~ 0.5

Total Well Depth: 10.00

Static Water Level: 3.85

Tube Intake Depth: ~~8.85~~ 8

Start Purge (hr): 1353

End Purge (hr): 1525

Total Purge Time (min): 92

Total Vol. Purged: ~2gal

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: 041300									
Time: 1530	Clear	3.93	13	25.3	4	0.60	26	N/A	N/A

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	X
Pesticides	8081A	None	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	Field HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:

DTW N/A Because WL indicator probe and tubing will not fit in well together.

Method:
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [X] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [ ] Polyethylene
- [ ] Teflon
- [X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:	Duplicate ID No.:	Signature(s):
N/A	N/A	

Groundwater Purging and Sampling Log

Date 4/14/00

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD-09-14

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9292036

Sample ID No.: NTC09G0414

Sampled By: R. Franklin

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	1500	6.01	0.123	20.5	19.9	2.09	-84	—	100
1	0.041 / 0.155	1510	6.03	0.122	20.4	16.8	1.33	-95	—	100
2	0.163 / 0.617	1520	6.03	0.119	20.4	14.0	1.14	-101	—	100
4	0.653 / 2.47	1530	6.03	0.117	20.7	12.4	1.07	-105	—	100
6	1.469 / 5.56	1540	6.03	0.116	20.7	11.1	0.99	-110	—	100
8	2.611 / 9.88	1550	6.03	0.116	20.7	9.2	1.03	-110	—	100
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 7.4
Static Water Level: 6.32
Tube Intake Depth: 7'

Start Purge (hr): 1450
End Purge (hr): 1550
Total Purge Time (min): 60
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: 4/14/00									
Time: 1600	Clear	6.03	0.116	20.7	9.2	1.03	-110	—	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	Y
Pesticides	8081A	None	1	1-liter	amber glass	Y
Herbicides	8151	None	1	1-liter	amber glass	Y
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	Y
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	Y
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
DTW measurements not taken during purging due to diameter of used -0.5"

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s): R. Franklin

Date 4-14

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: CLD - 04-15

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 9242036

Sample ID No.: NTC09G01514

Sampled By: R. Fiorilli

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	1150	4.76	0.053	20.6	29.7	2.34	54	—	100
1	0.041 / 0.155	1200	4.71	0.048	20.6	16.7	1.59	47	—	100
2	0.163 / 0.617	1210	4.71	0.043	20.6	10.52	1.44	40	—	100
4	0.653 / 2.47	1220	4.70	0.044	20.6	7.34	1.41	31	—	100
6	1.469 / 5.56	1230	4.70	0.044	20.6	6.40	1.22	25		
8	2.611 / 9.88									
10	4.08 / 15.44									
	[1 gal. = 3.785 L]									

PID Reading (ppm):

Well Casing Diameter: 0.5"
Total Well Depth: 7.2'
Static Water Level: 5.41
Tube Intake Depth: 6.5'

Start Purge (hr): 1138
End Purge (hr): 1230
Total Purge Time (min): 52
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: 4/14/00									
Time: 1240	Clear	4.70	0.044	20.6	6.40	1.22	25	-	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	X
Pesticides	8081A	None	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
No DTW measurements taken during purging due to diameter of well 0.5"

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD:

Duplicate ID No.:

Signature(s):

Groundwater Purging and Sampling Log

Tetra Tech NUS

Date 041300

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: OLD 09-16

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 927 2043

Sample ID No.: NTC 09G01614

Sampled By: BB

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	1635	4.68	9	22.5	35	1.20	-39	N/A	100
1	0.041 / 0.155	1645	4.67	8	22.5	8	0.67	-59		100
2	0.163 / 0.617	1655	4.67	8	22.5	7	0.67	-61		100
4	0.653 / 2.47	1705	4.68	8	22.3	6	0.61	-68		100
6	1.469 / 5.56	1715	4.68	8	22.4	5	0.57	-69		100
8	2.611 / 9.88	1725	4.68	8	22.4	5	0.59	-70		100
10	4.08 / 15.44	1735	4.68	8	22.4	5	0.60	-71		100
	[1 gal. = 3.785 L]									

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 7.1
Static Water Level: 6.05
Tube Intake Depth: 7

Start Purge (hr): 1621
End Purge (hr): 1735
Total Purge Time (min): 73
Total Vol. Purged: ~2 gal

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: 041300									
Time: 1740	Clear	4.68	8	22.4	5	0.60	-70	↓	N/A

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	1	1-liter	amber glass	X
Herbicides	8151	None	1	1-liter	amber glass	X
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	X
TAL Metals	6000/7000	Field HNO_3	1	1-liter	HDPE	X
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments:
Micro well

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s):

Date 4/14/00

Groundwater Purging and Sampling Log
Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

SA9
Sample Location: OLD-09-17

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 92720231 927052

Sample ID No.: NTC09601714
Sampled By: CM
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	6.12	20.8	17.69	8.57	1.56	40		~150
1	0.041 / 0.155	1135	6.14	20.5	17.68	7.90	0.82	25		
2	0.163 / 0.617	1145	6.12	20.4	17.63	7.10	0.73	21		
4	0.653 / 2.47	1155	6.20	20.3	17.59	6.92	0.92	23		
6	1.469 / 5.56	1205	6.22	20.4	17.61	6.91	0.62	19		
8	2.611 / 9.88	1215	6.22	20.4	17.65	6.74	0.54	13		
10	4.08 / 15.44	1225	6.20							
	[1 gal. = 3.785 L]	1225	6.22	20.4	17.60	6.63	0.45	13		

CM 4/14

PID Reading (ppm): 0

Well Casing Diameter: 0.5"
Total Well Depth: 16.1'
Static Water Level: 4.36
Tube Intake Depth: 7.0

0600 → Start Purge (hr): ~~1020~~ CM 4/14/00
End Purge (hr): 1227
Total Purge Time (min): 81
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: 4/14/00									
Time: 1225	yellow	6.22	20.4	17.60	6.63	0.45	13	N/A	150

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	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	

ADDITIONAL INFORMATION

Comments: Micro-Well
DTW NOT TAKEN

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[X] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A
Duplicate ID No.: N/A

Signature(s): Chris Morin

Date 4/13/00

Groundwater Purging and Sampling Log

Tetra Tech NUS

Project Site Name: NTC Orlando
Project No.: 7457/

Sample Location: SA9 OLD-09-19

Sample ID No.: NTC09G0191

Sampled By: BK

C-O-C No.:

[ ] Domestic Well Data

[X] Monitoring Well Data

[ ] Other Well Type:

Flow-Thru Cell
Make\Model: HORIBA U-22
Serial Nos.: 927200231 / 927052

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	1415	4.94	8.1	20.67	5.65	2.10	11	4.11	~130
1	0.041 / 0.155	1425	4.93	8.3	20.99	5.54	1.30	9	4.11	~130
2	0.163 / 0.617	1435	4.97	8.1	20.90	5.55	1.73	4	4.13	~130
4	0.653 / 2.47	1445	4.96	8.2	20.51	5.58	0.71	4	4.13	~130
6	1.469 / 5.56	1455	5.00	8.2	20.34	5.55	0.55	1	4.14	~130
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: 30.5
Static Water Level: 4.11
Tube Intake Depth: 27.5

Start Purge (hr): 1409
End Purge (hr): 1455
Total Purge Time (min): 46
Total Vol. Purged: 2.83 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: 4/13/00									
Time: 1455	Clear	5.00	8.2	20.34	5.55	0.55	1	4.14	~130

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	~~✓~~ RLE
Pesticides	8081A	None	1	1-liter	amber glass	✓
Herbicides	8151	None	1	1-liter	amber glass	✓
X-tra Organic	8XXX	None	1 or 2	1-liter	amber glass	✓
TAL Metals	6000/7000	HNO_3	1	1-liter	HDPE	✓
Antimony	6010B	HNO_3	1	0.5-liter	HDPE	✓ CM

ADDITIONAL INFORMATION

Comments:

Method: CM 4/13/00
- [X] Peristaltic Pump
- [ ] Centrifugal Pump
- [ ] Bladder Pump
- [ ] Tube Evacuation
- [X] Vacuum Jug Assembly
- [ ] Bailer

Tubing Type:
- [ ] Polyethylene
- [ ] Teflon
- [X] Teflon-lined Polyethylene

QA\QC SAMPLES

MS/MSD: N/A

Duplicate ID No.: N/A

Signature(s): Clin Morin